



RESUME BOOK







ePEARLS is a project sponsored by the National Science Foundation S-STEM program under grant NSF S-STEM DUE 1833869

Foreword

PEARLS (Program for Engineering Access, Retention, and LIATS Success) is an initiative sponsored by the National Science Foundation (NSF) directed at helping bachelor's and master's level students in all engineering disciplines to successfully complete their study programs and transition into professional life.

The program provides students with individualized career mentoring, soft-skills training, research and internship/COOP opportunities, and peer-mentor activities to complement their education. Activities are integrated in a learning community where students, faculty, and university staff join efforts for the goal of maximizing student success.

Once again we present the PEARLS resume book, portraying the quality and talents of our students. The students featured in this edition have expressed their interest in expanding their formation as future engineers through research, internships, and/or COOP experiences. All of them have are at the junior or senior level, have highly competitive academic performance, and have complemented their preparation through special projects, research projects, and/or community service, forming a select group of competitive individuals.

Thank you for your openness for reviewing this document. We hope it not only helps you in the recruiting efforts, but also creates life-changing opportunities for our talented students and creates bridges between PEARLS and your organization.

Sincerely,

Dr. Manuel Jimenez ECE Professor and Engineering PEARLS Director

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Chemical Engineering

Nomo	Availability	
Name	Spring	Summer
Addison Velazquez Rovira	\checkmark	\checkmark
 Alexandra Ramos Figueroa 		
Alondra Fernandez Rivera	\checkmark	\checkmark
Belma Sandoval Caraballo		
Calleb Diaz Acebedo	\checkmark	\checkmark
 Daniela J. Rivera Cedeño 	\checkmark	\checkmark
 Diamarys Salomé Rivera 	\checkmark	\checkmark
Gerardo Mena Fernandez	\checkmark	
 Maria Lucca Torres 	\checkmark	
 Nolan Cruz Rivera 	\checkmark	\checkmark
Tamara Soto Hernandez	\checkmark	
Samir Espada Ortiz	\checkmark	\checkmark

ADDISON VELAZQUEZ ROVIRA

P.O Box 791 Peñuelas, Puerto Rico

00624

addison.velazquez@upr.edu

OBJECTIVE	Undergraduate student looking for an internship position to gain skills that are essential in engineering career.	
EDUCATION	University of Puerto Rico, Mayagüez Campus (2018-Present)	
	Student from Chemical Engineering Department	
	Expected graduation: May 2023	
	GPA: 3.77	
	Josefa Vélez Bauzá High School, Peñuelas Puerto Rico (2015-2018)	
EXTRACURRICULAR	Program for Engineering Access, Retention, and LIATS Success (Present-2018)	
ACTIVITIES	Workshops, activities, and individualized mentoring for the career success	
	Scientific Investigation Club (2018-2015)	
	Research in the chemistry area specifically with heavy metals	
	Compare the different heavy metal concentrations near and far of mangroves	
	4-H Club Member (2018-2015)	
	To develop citizenship, leadership, responsibility and life skills	
	Police Athletic League (2009-2018)	
	Organization to build character and gain leadership doing community service and	
	voluntary work	
	Material Advantage Bulldogs Camp 2018	
	Learned about science, technology, and engineering	
	Learned about different strength of concrete.	
SKILLS & ABILITIES	• Leadership	
	Responsibility	
	Team-work ability	
	Computer Management	
HONORS & AWARDS	Excellence Cup Award from High School (2018)	
	Scholarshin recipient of the Program for Engineering Access Retention and LIATS	
	Success (ePEARLS)	

June-Ago 2019

June 2019-Present

Alexandra L. Ramos

Urb. Estancias del Rio, Tanamá St. #67, Aguas Buenas, PR • 787-246-9789 • alexandra.ramos12@upr.edu •

EDUCATION

University of Puerto Rico-Mayagüez Campus, Mayagüez, Puerto Rico Bachelor of Science in Chemical Engineering, Curricular Sequence in Applied Mathematics GPA: 3.83/4.00 || Major GPA: 3.83/4.00

Cornell University, Ithaca, New York Student in the College of Engineering

WORK & RESEARCH EXPERIENCE

Effect of NaCl Salt in Different Emulsions Types at Oil-Water Interface, University of Puerto Rico, Mayagüez, PR Undergraduate Research Student in Dr. Claribel Acevedo Group Shadowed and performed emulsion preparation experiments where nanoparticles of gold were heterogeneously functionalized with polar and non-polar groups and utilized to control the adsorption properties in the oil-water interface for enhanced oil recovey.

- Completed literature reviews and replicated experiments from different scientific studies to gain an understanding of the current
- known effects of NaCl salt in oil in water emulsions that contain a surfactant to gain laboratory skills.

ExxonMobil Research & Engineering, Spring, TX

Real-time Optimization (RTO) Engineer

- Migrated the simplified energy real-time optimization model of a big scale manufacturing facility from Visual MESA to ROMeo modeling software in order to upgrade program features and maximize profit.
- Replatformed the ROMeo Modeling Coursework from the 6.1 version to 7.1 server and assisted in the virtualization of the course.

Self-Healing Polymers Reviving Lithium Metal Batteries, Stanford University, Stanford, CA

- Undergraduate Research Student in Dr. Jian Qin Group
- Generated with LAMMPS software a molecular dynamics simulation model of a self-healing polymer network to study the mechanical properties and the effects of a polymer coating on a lithium metal anode, which will provide fundamental insight on designing safer and more efficient lithium-metal batteries.
- Developed visualization data of polymer using OVITO, used Python to envision and understand the different trends in potential energy to equilibrate the polymer, and performed autocorrelation calculations to obtain its viscosity and viscoelastic properties.

Thermal Expansivity Equation-of-State Model for Near- and Supercritical Conditions, University of Puerto Rico, Mayagüez, PR Aug 2017-Dec 2019 Undergraduate Research Student in Dr. Antonio Estévez Group

- Developed a thermodynamic model based on the Peng-Robinson equation of state (EOS) that obtains thermal expansivity experimental values of gases at high pressures which corrects predictions near critical point during natural convection phenomena.
- Correlated expansivity and Grashof number values at isobaric conditions with EOS model and NIST at the supercritical region.
- Publication: Ramos Figueroa, A. L.; Carreño-Chávez, R. A.; Estévez, L. A. Thermal expansivity of near- and supercritical fluids -Equation – of-state models and calculation for carbon dioxide and C1 to C4 normal alkanes. J. Chem. Eng. Data. 2019. 64(5), 2126-2133. Merck & Co., West Point, PA May-Aug 2018

Associate Specialist Process Engineer

- Developed vaccine product information spreadsheets where quality attributes were identified and incorporated into the process equipment design and composed User Requirement Specifications required to purchase customized formulation process equipment.
- Co-developed and performed vial filling troubleshooting experiments with the Center for Materials Science and Engineering to minimize the impact of aerosol generation in the pharmaceutical drug process, which reduced capital costs by a factor of millions.

LEADERSHIP EXPERIENCE

Professional Development Leader, American Institute of Chemical Engineering, University of Puerto Rico, Mayagüez, PR Dec 2019 - Present

- Coordinated various workshops in resume building, mock interview tips, peer essay reviews, REUs and LinkedIn.
- Created a month long mentorship program where first and second year ChemE students that have been studying remotely due to ٠ COVID-19 pandemic receive 1:1 mentoring to create a resume, obtain interview skills and participate in company mock interviews. Nov 2019
- Engineering Fun Day, American Society for Engineering Education, University of Puerto Rico, Mayagüez, PR
 - Organized and supervised a one-day engineering event where 350+ high school students from around Puerto Rico attended.
 - Coordinated workshop about Chemical Engineering that involved personal experiences, Q&A sessions, critical information on how to apply to universities and hands on experiments where students enhanced teamwork and critical thinking skills.

SKILLS

Project Management, Terminal, MATLAB, Public Speaking, Organization, Microsoft Office

AWARDS & ACHIEVEMENTS

2019 ExxonMobil LOFT Scholarship, ExxonMobil SAP Scholar, Stanford University, Stanford University, Stanford, CA Chemical Engineering Honor Roll, University of Puerto Rico, Mayagüez, PR First Place Best Product and Presentation, Weekend Design Challenge, University of Puerto Rico, Mayagüez, PR Jan-May 2018

Expected Graduation: Dec 2021

Aug 2019–Present

Aug 2020-Dec 2021

June-Aug 2019

ALONDRA N. FERNÁNDEZ RIVERA

OBJECTIVE

Seeking an opportunity to acquire new knowledge, skills and experiences so I can apply them in my professional career and become a helpful and capable working member of society.

ACADEMIC PREPARATION

August 2018 to Present	University of Puerto Rico Mayagüez Campus Chemical Engineering 3.50 GPA Expected Graduation Date: 2024
August 2016 – May 2018	Dr. Gilberto Concepción de Gracia (High School) Carolina, Puerto Rico

EXPERIENCE

December 2019 – March 2020	Sizzler Mayagüez, Puerto Rico Cashier
December 2017 – July 2018	Great Concepts Promotor

Awards

Member and scholarship recipient of the EPearls UPRM program. Member of the American Institute of Chemical Engineers (AIChE)

SKILLS

- Efficient use of computer programs like: Power Point, Word, Excel, AutoCAD, Python language
- ➤ Team work
- > Able to work under pressure
- > Organization
- > Time Management
- Problem solving
- > Attention to details

CLASSES

Algorithms and Computer Programing Engineering Graphics Micro Economy General Chemistry Physics Analytical Chemistry Organic Chemistry Calculus 1,2 and 3

BELMA DEL MAR SANDOVAL CARABALLO

(787)-608-9099 // belma.sandoval@upr.edu // Carolina, PR // Linkedin // ePortfolio

EDUCATION

University of Puerto Rico Mayagüez (UPRM) Bachelor of Science, Chemical Engineering, GPA 3.74/4.00

Universidad de Salamanca

International Exchange Student **Cornell University** Cornell-UPR Inter University Relief Program

RESEARCH EXPERIENCE

Catalytic Hydropyrolysis of Lignocellulosic Biomass

Assistant Researcher, Chemical Engineering Department, University of Wisconsin-Madison Principal Investigator - Dr. George Huber

- Conducted catalytic hydropyrolysis on cellulose and lignin to analyze the products of the reaction
- Analyzed gas chromatography (GC) data to identify and quantify the products being made and obtained mechanistic insights on chemical pathways that could've occurred as a result of this reaction
- Identified over 85 products of cellulose hydropyrolysis and obtained yields of 90+%

Hydrodeoxygenation of Sugar Alcohols to Diols

Undergraduate Researcher, Chemical Engineering Department, UPRM Principal Investigator - Dr. Yomaira Pagán Torres

• Synthesized catalysts to perform impregnations on catalyst supports used in hydrodeoxygenation reactions and compared catalyst performance to create biomass-based products equivalent to petroleum derivatives

INDUSTRY EXPERIENCE

ExxonMobil Chemical Company, Manufacturing

Process Engineer COOP

- Developed nine projects throughout the 15-week period focusing on improving the current plant processes and looked for innovative ways to reduce the environmental impact caused by the practices in place
- Applied academic knowledge to streamline industry processes and redesign current facilities to increase efficiency
- Advanced projects and smoothly transitioned completed work to the responsible parties upon experience completion

The Procter & Gamble Co., Family Care R&D

Charmin Products Research Intern

- Developed a conceptual model on targeted consumer benefit (P&G proprietary information) fully explained by product design technical requirements that drove consumer appeal
- Connected conceptual model to current test methods, and recommended NEW methods to predict consumer appeal
- Identified actionable areas for the design team to activate in current and future initiatives

Analytical Department Intern

- Developed a quantitative method to measure the basis weight of a chosen material using fluorescence imaging
- Prepared samples and took images with controlled settings, wrote MATLAB code for quantitative image analysis
- Formulated an equation that correlated the basis weight of a sample to the intensity of an image

LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers (SHPE)

Membership Development Vice President

• Innovating ways to keep members active amidst the COVID-19 pandemic and working with my team to bring value activities to develop our members' skills

• Achieved position as a Certified Chapter Leader by attending the National Institute for Leadership Advancement (NILA) August 2018-May 2019 Career Prep Program Mentor

• Recruited & mentored students who have not been able to land an Internship/COOP experience and provided the tools for them to be more competitive candidates for professional experiences

UPRM Engineering Pearls (ePEARLS)

Selected Participant

October 2018-present • Elected to participate in an NSF sponsored scholarship program dedicated to helping students successfully complete their study programs with individualized career mentoring, trainings, activities, etc.

SKILLS

Bilingual (English/Spanish); Medium Knowledge in MATLAB; Basic Knowledge in JMP, AutoCAD, Arduino, Python, HTML/CSS

Mavagüez, PR August 2016-December 2021

> Salamanca, Spain January-May 2020

Ithaca, NY, USA January-May 2018

Madison, WI, USA June-August 2019

Mavagüez, PR

Pensacola, FL, USA September-December 2019

August 2018-May 2019

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Mayagüez, PR

Mayagüez, PR

June 2020-present

Cincinnati, OH, USA

Mav-August 2018

May-August 2017

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Calleb J. Diaz Acevedo

calleb.diaz2@upr.edu • (787) - 612 - 9267 • https://callebdiaz2.wixsite.com/mysite

Education

University of Puerto Rico, Mayagüez CAMPUS

B.S. in Chemical Engineering (Anticipated May 2023)

Experience

NASA Proposal Writing and Evaluation Experience (NPWEE)

Principal Investigator

- **Proposed** the use of Polyester Fiber Coated with Silver doped Multi-Walled Carbon Nanotubes to protect Electronic Components from X-Ray radiation
- Participated on a Proposal Review Board
- Presented the Program and Projects to the University Community

NASA Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE) Academy

Engineering Design Lead

- Developed a Preliminary Design Review (PDR) for the Aquifer & Geophysical Underground Analyzer (AGUA)
- **Designed** the payload, landing mechanism, and modified a magnetometer to meet the mission's requirements
- Awarded 3rd place Nationwide

Program for Engineering Access, Retention, and LIATS Success (PEARLS)

Member – Scholarship

- Received Career & Educational Mentoring from Dr. Nelson Cardona (PhD in Chemical Engineering)
- Participated on Professional & Non-technical Skills Development Workshops
- . Took Special Courses: INGE 3002 – Introduction to Learning Community & INGE 5996 – Undergraduate Research in Engineering

Skills

Technical:	Soft Skills:	
1. Basic Skills in Programing (Python)	1. Leadership Skills - Small (4) and Medium (20) teams	
2. Bilingual (Spanish & English)	2. Problem Solving Skills	
3. Basic Skills in CAD software (AutoCAD)	3. Effective Communication and Organization	
4. Technical Writing (PDR, Proposal, Memo,		
BPG, and Infographics)		
5. Basic Skills using Accounting Program (Wave)		
Honors & Awards		
Engineering Pearls Scholarship	August 2020 - Present	
Granted to students with economic needs that excelled academically		
UPRM Honor Student	July 2019 - Present	
Top 4% on the cohort of students of my admission yea	ur	
NASA L'SPACE Level 1 & 2 Completion: Concept	& Testing Academy December 2018	

Over 40 hours interacting with NASA officials, 40+ hours working on PDR & 8 hours of prototype testing

August 2018 - Present GPA: 3.84/4.00

May 2019 - August 2019

August 2018 - May 2019

August 2018 – Present

Daniela J. Rivera Cedeño

(787) 329-4874 | daniela.rivera4@upr.edu | PO Box 1266, Utuado, PR, 00641-1266 | Urb. Alturas Utuado, PR 00641

OBJECTIVE

Seeking a summer internship, coop or research experience related to the Chemical Engineering field, to enhance my knowledge in that career path.

EDUCATION University of Puerto Rico at Mayagüez, Expected Graduation: **December 2022** GPA: 3.40/4.00 Bachelor of Science in Chemical Engineering **RELEVANT COURSES:** Materials and Energy Balance Analytical Chemistry Thermodynamics I **Organic Chemistry** • ٠ Momentum Transfer Operations Physical Chemistry I & II **VOLUNTEER EXPERIENCE: Disaster Medical Assistance Team** September 2017 Volunteer Interpreter for Medical Teams Served and translated for the members of the Disaster Medical Assistance Team (DMAT) that was on service 0 during Hurricane Maria. Supplied the community with medical supplies, food, and water. 0 LEADERSHIP EXPERIENCE **Colegiales Contra la Contaminación (Triple C)** August 2019-Present • Vocal and founding member of Triple C • Founder of the monthly event "I Clean My Campus" • Currently partnering with other associations to reduce the production of waste on campus. • Collaborating in publicity for in-school event The National Society of Collegiate Scholars (NSCS), UPR May 2019-Present Treasurer and founding member of the campus Chapter 0 o Worked in the planning of Chapter events that can help members in their academic, and professional development. **Program For Engineering Access, Retention, and LIATS Success October 2018-Present** o Program that helps engineering students excel in their specific field and grow professionally and academically • Assisted in conferences and seminars that promote student growth in the different engineering fields. Participant of student professor mentoring with Prof. Nelson Cardona as my mentor **American Chemical Society (ACS)** August 2018-Present • Active participant of the UPRM chapter Participated to seminars, webinars, and workshops related with Chemistry and student development **AWARDS & HONORS:**

Engineering Pearls Scholarship

• Scholarship provided by the EPEARLS Program to the students who exede in their academic development.

SKILLS

- Efficient user of Microsoft Office (Word, Power Point, Excel)
- Programming skills (Python, AutoCAD)
- Excellent communication in both Spanish and English
- Adaptable and Hardworker
- Strong teamwork skills

August 2019-Present

PH: (787) 487-6040 | Email: gerardo.mena2@upr.edu

Education:

UNIVERSITY OF PUERTO RICO, MAYAGÜEZ (UPRM) • B.S. in **Chemical Engineering** (153/172crd)

• Minor Concentration in **Project Management**

Relevant Courses:

- · Thermodynamics I & II
- Differential Equations
- Momentum Transfer Operations · Coding & Computer Programming

Projects/Research Experience:

PROCESS ENGINEER CO-OP-KIMBERLY CLARK (MAUMELLE)

- Reduced the variability in the changeover procedures by up to 69% for all the Huggies® wipes runs, lowering the • downtime, thus increasing the efficiency and %OEE of each production line.
- Optimized, standardized, and automated the runout procedures for the wipes to reduce wastes by 70% to increase • profits and minimize the environmental impact of the process.
- Improved raw material handling process and aided in the change management process/training to the downtime of the process by up to 54% resulting in more than \$1.2MM/yr in gains.

ELECTRODE ENHANCEMENT SOLID OXYDE FUEL CELLS-RESEARCH (UPRM) 08/2019-05/2020

- Critically evaluating the performance, cost and, durability components of SOFC and PEMFC by assessing degradation and cost efficiency when operating the cell for long periods of time at relatively high temperatures.
- Implementing a new cathode material for high temperature operation with a minimum degradation for optimal. • CHARACTERIZATION OF PROBIOTICS BY S.E.R.S-RESEARCH (UPRM) 08/2019-11/2019
- Analyze bacterial membrane components to obtain a distinctive spectrum for fast and selective identification when using complex samples such as dairy products, broth and other aqueous solutions.
- Quantify the probiotic concentration and, compare its accuracy against UV-Vis spectroscopy and theoretical results. Leadership Experience:

SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS (SHPE) - UPRM

Vice-President of Enterprise (Executive Board, 2020)

-Managed corporate relationships for the largest student organization on campus by overseeing the coordination and execution of workshops, info-sessions and other events for the professional development of our members.

Academic Excellence Director (Executive Board, 2019)

-Led a team to facilitate opportunities for students to obtain undergraduate research projects, carry out workshops and organize plant tours to provide to the students an insight into the everyday environment as an engineer. -Coordinator of the 2020 Puerto Rico Regional Science Bowl for over 150 middle and high school students.

SHPE Fellow (2018)

-Created technical partnerships with other UPRM associations from all the departments to broaden the workshop topics that SHPE is offering, to a more technical scope and, the resulting events impacted more than 65 students.

PRESIDENT – BOYS SCOUTS OF AMERICA, CREW 821

- Develop over 25 teens from the crew as leaders by planning and executing workshops and camps to help them gain soft skills and techniques such as time management, group control, goal setting, strategic thinking and, prioritizing.
- Organized, helped, and executed camps, beach cleanings and other community service activities for over 50 scouts. •

Extracurricular Activities:

SCIENCE AND MATH TUTOR-COMMUNITY SERVICE

• Tutor over 100 high school and university students in science and math courses to improve their knowledge and academic performance on exams, assignments, quizzes, and special projects.

Skills & Abilities:

- Fully bilingual: English and Spanish; basic proficiency: Italian
- Intermediate in MATLAB, Python, Visual Basic, AutoCAD, PLC, Plot.Ly, Windows Microsoft, and Excel.
- Ability to work with: project management, time management, case study analysis, SOPs and, GLPs.
- Laboratory skills: screen printing, UV-Vis and Raman spectroscopy, HPLC, GC, PVD.

06/2020-12/2020

06/2017-PRESENT

02/2019-02/2021

06/2017-03/2020

Graduation Date: May 2022

· Analytical/Organic/Food Chemistry

· Heat/Mass Transfer Operation

GPA: 3.8/4.0 | Major GPA: 4.0/4.0

María A. Lucca Torres

Jardines del Caribe #1 309 Ponce, PR 00728

maria.lucca@upr.edu • 787-396-1871 • LinkedIn • ePortfolio

Education

University of Puerto Rico, Mayagüez Campus

B.S. Chemical Engineering

Mayagüez, PR Expected graduation date: May 2022

September 2020- January 2021

GPA: 3.07 / 4.00

Scholarship: Program for Engineering Access, Retention and LIATS Success (ePEARLS) recipient

Professional Experience

Instarz LLC

Chemical Engineer Intern

- Researched and implemented life support systems such as water recycling and oxygen generation.
- Explored properties of advanced materials and identified potential applications.
- Worked on risk evaluation and management.

Pfizer Pharmaceuticals, Environmental Health and Safety

Summer Student- Environmental Health and Safety

- Made improvements to fugitive emissions and volatile organic emissions calculations.
- Interacted with API and Environmental personnel to gather data from the field.
- Analyzed data and established a system to calculate fugitive emissions and VOCs.

University of Illinois College of Pharmacy

Student at the Summer Pharmacy Institute (SPI)

 Explored different areas of pharmacy by participating in full day workshops devoted to current trends, research, and activities in each of the following focus areas: Hospital, Ambulatory Care, Industry/Research & Development, Community, and Professionalism in the Field.

Leadershin Experience

Future Pharmacist Association	Mayagüez, PR
Vice president	May 2021-present
• Assist chapter president in tasks and coordinate activities for the academic	c year.
Sub-Secretary	August 2020-May 2021
• Assisted chapter secretary by taking meeting notes and communicating re	gularly with members.
 Established open and constant communication with members to encourage settings. 	ge participation in virtual
Phi Lambda Upsilon Honorary Chemical Society	Mayagüez, PR
Vice president	May 2021-present
• Assist chapter president and coordinate activities for the academic year	
Outreach Coordinator	August 2020-May 2021
• Developed community service activities to help different populations.	
 Coordinated volunteers and donations for outreach activities. 	
ePEARLS Leadership & Mentoring Program	Mayagüez, PR
Peer Mentor	August 2018-present
• Currently, mentoring a group of 3 ePEARLS students, providing them with succeed.	the tools they need to
• Trained by Peer Led Team Learning (PLTL), where I participated in an activ	e learning experience and

improved my leadership skills.

Skills

Microsoft Office; AutoCAD (Basic); Fluent in Spanish and English; MATLAB (Basic)

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Barceloneta, PR June 2019-August 2019

Mayagüez, PR

Rockford, IL, USA June 2019

NOLAN G. CRUZ RIVERA

E41 Ave Ricky Seda Urb. Idamaris Garden's 939-416-8238 | nolan.cruz@upr.edu

OBJECTIVES

Enthusiastic Chemical Engineering student eager to contribute to team success through hard work, attention to detail and excellent organizational skills to acquire work experience through a COOP.

EDUCATION

University of Puerto Rico at Mayaguez (UPRM)

Bachelor of Science in Chemical Engineering

Relevant Coursework: Materials & Energy Balances (In Progress), Physical Chemistry II, Analytical Chemistry, Organic Chemistry and Algorithms & Computer Programming.

EXPERIENCE

- Puerto Rico Energy Center (Summer Camp) Gurabo PR
 - Proposed a renewable energy source by fission using thorium as the primary fuel. A molten salt reactor model was sketched and drew using AutoCAD program.
 - A recirculation system was implemented to reuse up to 99% of the initial thorium fuel. This mitigated the initial raw material costs from \$ 862,546 to \$ 510,000 representing a huge decrease of 40.9%.
 - Developed an algorithm that calculated a 45-50% thermal efficiency in thorium reactors vs 30% efficiency in traditional uranium reactors. The mathematical model presented and stated that thorium reactors can operate up to 20% more efficient and at low-pressure systems making a safe environment to work.

SKILLS AND ABILITIES

Laboratory skills

- Knowledge and domain in chemical sensors for biomedical applications.
- Mathematical problem-solving for laboratory validation such as quality control and quality assurance (Limit of Detection, Limit of Quantitation, and Limit of Linearity) of pharmacological products.
- Experience in the operation of the Beckman du 640 uv-vis spectrophotometer and the Orion 960 auto chemistry system
- Practice reading absorbances at fixed wavelengths.
- Practice using the High-Performance Liquid Chromatography (HPLC) for the separation of the non-volatile components.
- Preparation of stock solutions such as benzoic acid, nitric acid, sulfuric acid, and potassium dichromate.
- Experience in electrogravimetric analysis.

Communication skills

- Proposed a reliable source of renewable energy, Molten salt reactor and Thorium as the main and primary fuel, at Puerto Rico Energy Center conference with engineers, investors, and PREC department.
- Proposed a business idea, replacing the battery storage in nuclear reactors with thermal heat to supply energy to turbines, at the University of Puerto Rico of Cayey (UPRC).

HONORS

Awarded one (1) tuition scholarship with The Program for Engineering Access, Retention, and LIATS Success (PEARLS) (Dec 2018)

AFILLIATIONS AND LEADERSHIP EXPERIENCES

Circulo de Pre-Médicos (CPM) - UPRM

Active member

- National Society of Leadership and Success (NSLS) UPRM Active member in the #1 ranked and biggest leadership association in United States
- **Engineering Pearls UPRM**
 - Active member

October 2018 - Present

GPA: 3.38/4.00

Estimated Graduation Date: May 2024

June 2018 – July 2018

September 2020 - Present

September 2019 – Present

SAMIR ESPADA ORTIZ

Innovative engineer capable of extensive analysis of chemical engineering and pharmaceutical processes. Seeking a summer internship opportunity where I may contribute to the development and workforce of a company.

EDUCATION

University of Puerto Rico, Mayagüez Campus	General GPA: 3.51
Bachelor of Science in Chemical Engineering	Specialty GPA: 3.67
Minor of Science in Pharmaceutical Engineering	Graduation Date: May 2021
EXPERIENCE	
UNIVERSITY PROFESSOR ASSISTANT	August 2021–Present
 Assist assigned professors in teaching response 	sibilities.
 Supervise students so that proper lab safety r 	measures are taken.
 Assign grades to undergraduate student lab r 	eports.
HYDROPHOBIC PARTICLE DISTRIBUTION RESEARC	H January 2021-May 2021
 Proposed a characterization of adhesion force 	es of hydrophobic particles on carrier lactose.
 Performed preliminary force-distance measure 	rements in an Atomic Force Microscope.
MATERIAL CHARACTERIZATION RESEARCH	January 2020-December 2020
 Improved flow properties of powder mixtures 	s by using an FT4 Rheometer.
 Coached a student in material characterization 	on techniques.
CAAEF MATHEMATICS TUTOR AT UPR-PONCE	January 2016–December 2016
• Tutored in math courses such as basic math,	precalculus I & II and Calculus I & II
 Improvement was observed in the grades of it 	regularly visiting students.
EXTRACURRICULAR	
• Part of the UPRM-Judo Team won silver meda	I in UPRM Tarzan Judo Cup August 2017–May 2019
CERTIFICATIONS	
SACHE ELA992: DUST EXPLOSION CERTIFICATE, AI	CHE March 2020
Completed ELA992 course on dust explosion safety	and how to minimize elements that contribute to a dust
explosion.	,
SACHE ELA950: INTRODUCTION TO PROCESS SAFE	TY CERTIFICATE, AICHE March 2020
Completed ELA950 course on the importance of pr	ocess safety and key elements.
Project Management, Material and Energy Bal	ances, Fluid Mechanics, Mass and Heat Transfer.
Thermodynamics. Reaction Kinetics. Process C	ontrol. Pharmaceutical Operations. Bioreactor Design. Technica
Writing	
ckii i c	
JNILLJ	
Bilingual (Spanish and English)	
• Trained in use of F14 Rheometer.	Iechnical writing skills
 I rained in material characterizations such as: 1 bulk density insites Evenes frishility and PC 	Expand • Efficient at teamwork and leadership
DUIK density, insited, Eyecon, triability and PS	• Adaptable and Fast Learner
 Strong analytical and mathematical skills 	Able to work under pressure.
Project management skills	 Creative thinking
	-

Tamara I. Soto Hernández

June 2020

March 2019

Hc 04 Box 17395, Camuy, P.R. 00627 (787) 452-1846 tamara.soto4@upr.edu linkedin.com/in/tamara-i-soto-hernández tamarasoto4.wixsite.com/myeportfolio

Profile

Undergraduate student seeking for internship or COOP opportunities in the field of Chemical Engineering to develop experiences and skills, to construct a successful pathway into professional life.

Education

University of Puerto Rico, Mayagüez Campus

• Chemical Engineering, B.S.

Professional Experience

Summer 2020 Virtual REU Program, University of Wisconsin-Madison, U.S.

- Worked in a project on Data and Machine Learning in Materials and Chemistry, led by the Prof. Dane Morgan and the graduate student Benjamin Afflerbach, to train a model to predict the superconducting critical temperature.
- Optimized the model by normalizing features, adjusting hyperparameters, comparing validation techniques, and generating parity plots and error metrics.
- Attended to faculty and professional development seminars to prepare for a successful graduate education.

Research Experiences

DFT Study on the Effect of Aluminum Position in Cu-Exchanged MFI on Methane Activation

Mentor: Dr. Maria Curet-Arana

- Analyze systematically all the possible Al configurations on one of the specific rings in which the Cu atom is commonly located within the MFI zeolite.
- Use Gauss View and Notepad++ to modify the structures and edit files according to the type of calculation needed.
- Use Linux operating system and Gaussian to perform all DFT calculations by mean of commands.

Participatory Action Research of the Development Communities Institute

- Mentor: Prof. Luisa Seijo-Maldonado
- Investigated the community of Quebrada, Camuy to know their needs receiving mentoring by Irwin Guzmán-Cajigas.
- Established dialogues with residents, analyze community needs, search for solutions.
- Provided a preliminary presentation for professors, mentors and students about the assigned community.

Leadership and Extracurricular Experiences

ePEARLS Leadership & Mentoring Program

- Mentoring a group of ePEARLS students.
- Offer workshops and office hours to help ePEARLS peers.
- Trained by Peer Led Team Learning (PLTL) to receive an active learning experience and create leadership roles.

Program for Engineering Access, Retention, and LIATS Success (PEARLS)

- Receive individual career mentoring from Dr. Nelson Cardona Martínez.
- Enrolled in courses for professional development.
- Participant of workshops, meetings, research study, and other activities.

Associations

Society of Women Engineers (SWE)

• Participant of workshops and charity activities (March Against Breast Cancer, Operation Christmas Child and Orphanage Visit).

American Institute of Chemical Engineers (AIChE)

• Participant of symposium, workshops, meetings, and other activities.

Honors

- "Fondo Irrestricto" Scholarship
- Chemical Engineering Honor Roll Recognition
- ePEARLS Scholarship
- Honor Tuition Exemption
- Camuy Coop Scholarship

Skills

- Fluent in Spanish / Proficient in English language.
- Proficient in Microsoft Office.
- Proficient in AutoCAD and Python.

- Proficient in Mendeley.
- Time management and organization.
- Adaptable to different environments.

August 2018-Present

January 2019-Present

May 2016-December 2020

August 2018, August 2020-Present

August 2019-Present

October 2018-Present

February-May 2019

August 2019-December 2020

September 2019-Present

Expected Graduation: Dec 2021

Summer 2020

GPA: 3.82 / 4.00

Civil Engineering

Neree	Availability	
Name	Spring	Summer
Carolina Gandia de Arce		
Elioner Rivera Apontez	\checkmark	\checkmark
Sebastián Serrano Pagan	\checkmark	\checkmark

Carolina I. Gandía de Arce

carolina.gandia@upr.edu - (787) 215-7078

Objective

Seeking an **Internship** related to **Civil Engineering** to acquire new knowledge which I can apply in my professional career and be helpful with my abilities of leadership, using AutoCAD or others computer programs, and knowledge acquire in classes.

Education

Bachelor of Science : Civil Engineering

University of Puerto Rico - Mayagüez, P.R.

- Curricular Sequence in Arts.

- GPA: 3.60/4.00

- Expected graduation: December 2021
- Scholarships: Founded by the National Science Foundation (NSF) through the project NSF-DUE 1833869.

Experience _

March 2019 - Present PEARLS Peer Mentor / e-PEARLS - UPRM - Mayagüez, P.R.

Nayda G. Santiago , PE, PhD; Carla López del Puerto, PhD

- Leadership and Mentoring program: Peer Led Team Learning.
- Part of a group of leader students of e-PEARLS program (Engineering Program for Engineering Access, Retention, and LIATS Success) to support and help other students to reach their professionals goals.

July 2019 - March 2020 Concrete Canoe Team / ASCE - UPRM - Mayagüez, P.R.

Felipe J. Acosta Costa, PE, PhD

- Leader of Hull Design Team; in charge of graphics design and aesthetics of the canoe.
- Supervise and help the hull design team to learn the concepts of a canoe's structure, thus complete with the objectives of the team.

May 2018 - June 2019

- Member of the Hull Design Team.
- Designed and analyzed the canoe's hull to get an efficient, faster and maneuverable canoe that complied with the rules of the competition using Rhinoceros 5 program.
- In charge of the photographs of the canoe procedure, graphic design of the official documents, display decoration, and aesthetics of the canoe.

July 2019

19 Structural Plan Special Project / UPRM Library - Mayagüez, P.R. *Anidza Valentín Rodríguez, PhD*

 Measure the space and make the structural plan of 4 sections of the first floor of the University of Puerto Rico, Mayagüez Campus General Library on a real scale in the AutoCAD program.

Oct. 2016 - Dec. 2016 Evaluation of Tourist Signs Project / ITE - UPRM - Mayagüez, P.R.

- Analyzed route at the city of Cabo Rojo, P.R.

- Designed tourism signs using the Manual on Uniform Traffic Control Devices (MUTCD) regulations on AutoCAD.
- Proposed the appropriated places for the tourism signs.

Acknowledgements/Skills

- Bilingual: Spanish (native) and English (intermediate).

 Proficient knowledge on computer programs: AutoCAD, Rhinoceros, SketchUp, PowerPoint, Excel, Word.

Other Interests _

- Certificate on Collaborative Institutional Training Initiative (CITI) program: Responsible Conduct of Research for Engineers - Stage 1.
- 2019 Summer Workshop: Learning about driving simulator, specially ISA, and how to make simulator scenarios.

ELIONER RIVERA APONTE

elioner.rivera@upr.edu | (787) 368-4907 | Yabucoa, P.R.

EDUCATION

University of Puerto Rico at Mayagüez Bachelor of Science in Civil Engineering Expected Graduation: May 2023 GPA: 3.74/4.00

June 2020- Present

June 2019- May 2020

October 2018- Present

November 2017

October 2016- March 2017

Relevant Courses:

Calculus I, II and III, Ordinary Differential Equations, Engineering Graphics I and II, Algorithms and Computer Programming, Engineering Mechanic Static and Dynamic, Mechanic of Materials I and II, Civil Engineering Materials, Fluid Mechanics, Structural Analysis I and II, Structural Steel Design, Geomatics I and II, Introduction to Environmental Engineering, Highway Location and Curve Design, Introduction to Transportation Engineering

EXPERIENCES

UPRM Steel Bridge Team – Captain

Advisor: Jose O. Guevara

- Handpicked 9 outstanding members out of 65 applicants through multiple interviewing structures.
- Managed a team of 16 members developing their skills and competition events.
- Instructed new members in the design programs (SAP2000, AutoCAD, SolidWorks), safety in the Construction Laboratory and optimization project according to the requirements given by the American Institute of Steel Construction.

UPRM Steel Bridge Team – Member

Advisor: Jose O. Guevara

- Selected as 1 of 13 team members to work in design, analysis and construction of a steel truss bridge in the 2019 AISC Steel Bridge Competition.
- Worked in structure design, steel connection design, construction, vertical and lateral load testing, data analysis and bridge assembly optimization.
- Had one of the Top two steel bridge models chosen from the whole team.

HONORS AND AWARDS

Program for Engineering Access, Retention, and LIATS Success (PEARLS)

Participant and Scholarship Recipient

- Founded by National Science Foundation through award #1833869 and selected to participate in a program for talented engineering students.
- The Program is directed at helping bachelor's level students to successfully complete their study program by offering mentoring, workshops, and research opportunities.

PROFESSIONAL ASSOCIATIONS

American Institute of Steel Construction (AISC) – Active Member August 2019 - Present August 2019 - Desent August 2019 - Present

- Attended Outreach activities throughout Puerto Rico with Ada Monzón.
- Participated in Professional Development Workshop.

VOLUNTEER WORK

Come Colegial, UPRM

- Helped to giving emergency supplies to the people in Morovis PR after Hurricane Maria under the guidance of Professor Edward Contreras.
- Helped organized the packages.

Cineret: Escuela de Levitas

- Tutored children around the ages from 6 to 10 in the subject of Spanish and Math.
- Contributed to the maintenance of the school.

<u>SKILLS</u>

- Languages: Spanish (Fluent) and English (Intermediate)
- Programing Language: Phyton
- SAP2000, AutoCAD, SolidWorks, Civil 3D and Microsoft Office
- Leadership, Teamwork and Adaptability



Sebastián Serrano-Pagán

Guaynabo, Puerto Rico (787) 639-1240 / sebastian.serrano1@upr.edu

OBJECTIVE

Organized civil engineering student in possession of great communication and leadership skills due to some experience in projects seeking the opportunity of a Summer Internship or Coop to contribute to my professional development opening the possibilities for future job opportunities.

EDUCATION

Engineering School of University of Puerto Rico, Mayagüez Campus

(2017- Present)

Civil engineering bachelor's degree with a minor in Project Management. Expected graduation in May 2022 Cumulative GPA: 3.39 Major GPA: 3.65

SKILLS

Technical Skills

Computer aided design/engineering: Blue Beam, AutoCAD, Civil 3D, SketchUp, SeismoStruct, Microsoft Project

Other: Project Management, Create research road scenarios and running subjects on vehicle simulators using Internet Scene Assembly (ISA) software, Windows OS

Languages

Spanish: Fluent English: Proficient

Soft Skills

Meticulous and detailed oriented, Great communication skills, Persistent in reaching goals, Teamwork, Leadership, Negotiation, Problem solving, Work under pressure, Manage time, Constructive critique, Listening, Coaching, Selfmanagement

EXPERIENCE

Research to assess seismic vulnerabilities in structures

In process of performing seismic analyses to digital models of soft-story r/c houses, a very common type of residence in Puerto Rico, to eventually develop reinforcement and rehabilitation methods. **(2020- Present)**

ASC Region 2 Competition, Heavy Civil Category First Place Award

I successfully developed a Construction Methods and Strategy Plan while assisting the Project Schedule and Estimate, for the completion of a Bid Package Proposal for the construction of the S-191A Pump Station.

(February 2021)

Competition Sponsor: Kiewit Corp.

Mi María: Puerto Rico after the Hurricane

Social Justice & Community Project

Perform various tasks such as conducting interviews, transcription, translation, oversee the design of the exhibition and catalog of the project and coordinate material selection and scheduling of the exhibition.

(2018-2019)

Mentor: Dr. Ricia Chansky website: mimariapr.org

HONORS & AWARDS

ePearls Scholarship Holder

Founded by the National Science Foundation through award #1833869 and selected to participate in a mentorship program for talented engineering students. (August 2020)

CERTIFICATIONS & ORGANIZATIONS

Bulldogs Construction: AGC UPRM Construction Management and Engineering Team (2020- Present)

UPRM Engineering Pearls Program (2018- Present)

ASCE Organization (2019- Present)

Track & Field UPRM Team (2018-2019)

CITI Program Certification: Responsible Conduct of Research for Engineers, stage1 (July 2019)

Computer Engineering

Nomo	Availability	
Name	Spring	Summer
Homar Rodriguez Ramos	\checkmark	
 Jorge Vega Rodríguez 	\checkmark	\checkmark
Leonardo Torres de la Rosa	\checkmark	\checkmark
Rose M. Sánchez Irizarry	\checkmark	\checkmark
Víctor Barriera Velázquez	\checkmark	\checkmark

Homar Rodríguez Ramos



homar.rodriguez@upr.edu

787-220-0101



SKILLS

Soft Skills

Time Management, Communication, Adaptable, Multitasking, Strategic Planning, Organization

Operating Systems Mac OS, iOS and Windows OS

Programming Languages Proficiency

Working Proficiency: C++, C, HTML-5 and CSS Basic Knowledge: C#, Java, MATLAB and Python

Wireshark with Ubertooth-One Software

Detection of devices that transmit Bluetooth signals and 2D graphs of microwave frequencies.

SET Die-to-Die/Die-to-Wafer bonder

Accurate setup and calibration of fine alignment within $\pm 1~\mu m$ accuracy. Bonding of die stacks to assemble advanced microelectronic architectures.

Dage Shear Tester

Equipment calibration and shear testing strength of a die to chip connection.

Control Micro Systems Positioning Laser

Integrated circuits laser marking based on customer schematics request.

Language Proficiency

Fluent in English and Spanish. Basic understanding of Portuguese. Basic reading Italian.

Miscellaneous Proficiency

Proficient with Microsoft Visio, Apple Configurator, Jira, Confluence, photo manipulation, and video editing.

Extracurricular Activities

IEEE VTS - Mayagüez Chapter

Social Media Manager

Jan 2020 - Aug 2020 Promoted the association by maintaining active social media accounts; informed the university's student body of our activities.

Secretary

Aug 2019 - Dec 2019 Organized meetings for ±20 undergraduate research students, coordinated multiple engineering workshops for +25 students, and co-developed association's autonomous quadcopters project proposal

Kinesis Foundation FAFSA Weekend Student Assistant

Dec 2016 & Dec 2017

Informed parents and students about the benefits of the Free Application for Federal Student Aid (FAFSA) form and guided them in the process of filling the form; around +100 students had their FAFSA successfully completed in each year.

ePearls Program Member

Aug 2018 - Present College initiative sponsored by the National Science Foundation with the aim of helping college students in engineering disciplines transition into their professional career.

SUMMARY

Computer Engineering student with nine months of industry experience and nine months of research experience interested in software development and cybersecurity opportunities for professional growth through an internship or undergraduate research.

EDUCATION

University of Puerto Rico - Mayagüez (UPRM)

Bachelor of Science in Computer Engineering UPRM Film Certificate (In progress) Aug 2017 - May 2023 Major GPA: 3.30/4.00

RELEVANT COURSEWORK

Approved Courses

Algorithms & Computer Programming // Foundations of Computing // Calculus I, II, III // Electrical Systems Analysis I // Electric Measurements Lab // Graphics Engineering

Current Courses

Advanced Programming // Logic Circuits (Switching) // Electronics I // Differential Equations

EXPERIENCE

Department of Defense

Microelectronics Process Engineer

Aug 2020 - Dec 2020 Bonded, coined and shear tested die in support of high-performance computing. Implemented administrative office flows through Jira to improve project management and track project tasks. Laser marked schematics components based on customer request.

Mobile Vulnerability Analyst

Jan 2020 - Apr 2020 Drafted vulnerability findings on mobile devices and developed cybersecurity guidelines to mitigate issues. Configured tools to capture and analyze Bluetooth signals and conducted mobile device traffic analysis.

Kinesis Foundation

Teacher Assistant

Feb 2018 - Mar 2018

Assisted instructor at the Kinesis Foundation in educating high school students in the subject of web development and how to make their professional web page using HTML-5 and CSS; around 20 students were certified through the Microsoft Certified Professional Program.

RESEARCH

University of Puerto Rico - Mayagüez

CASHI UPRM - Team LiDron

Oct 2020 - Present

Reviewed sensor functionality of the project's quadcopter, with the objective of integrating a LiDAR based altimeter and obstacle avoidance sensor; underwent training in Python and ROS programming to tackle LiDAR sensors functionality with the single board computer of the drone as future work. The project aims to design a quadcopter with the ability to analyze the best surface for autonomous landing through LiDAR sensors.

Vehicular Technology Society (VTS) Quadcopter

Aug 2019 - Dec 2019

Co-programmed a pothole detector prototype with the ability to roughly sketch dimensions (depth, length, width) of a pothole in an image using MATLAB. The project aimed to analyzed potholes on roads and report them for official use for transportation agencies.

CERTIFICATIONS & LISCENSES

Social and Behavioral Responsible Conduct of Research

2021 - Present

Clearance

2019 - Present Top Secret (TS) // Sensitive Compartmented Information (SCI) // Talent Keyhole (TK) Agency Special Background Investigation (SBI) // Polygraph

Microsoft Technology Associate

Certified in Security // Windows Operating Systems // Software Development Fundamentals // Introduction to Programming using HTML and CSS

Microsoft Office Specialist

Certified in Word 2013/2016 // PowerPoint 2013/2016 // Excel 2013/2016

AWARDS

LUSCA Fantastic Film Fest 2019 Mayagüez Film Challenge

Produced the stop motion short film Space Mates and won "Best Short" and "Best Director" awards.

Kinesis Foundation Scholarship

Aug 2017 - Present Awarded scholarship for maintaining +3.0 GPA during college.

JORGE E. VEGA RODRIGUEZ

(787)-614-6020 • jorge.vega6@upr.edu • 💭 /jorge-vega6 • in /jorge-e-vega • jorgevega66.com/portfolio

Objectives: To apply what I have learned and broaden my experience through **internship or co-op** positions relating to **Computer Engineering**, especially in the field of **Web and Mobile Development**.

EDUCATION

University of Puerto Rico Mayagüez (UPRM) BSc, Computer Engineering

Expected Graduation: May 2022 Cumulative GPA: **3.60/4.00** Major GPA: **3.64/4.00**

Foster City, CA (virtual)

Jun 2020 - Dec 2020

May 2019 - Aug 2019

San Juan. PR

Mayagüez, PR

San Juan, PR

SKILLS / TOOLS

- Proficient in Java, Python Basic knowledge in JavaScript, Golang, SQL, MATLAB, C, C#
- Angular, Entity Framework 6, Flask, Express
- Git, Scrum and Agile Methodology, Microsoft Team Foundation Server
- Adobe Photoshop, GIMP, LogicWorks, Microsoft Word, Excel, PowerPoint

RELEVANT COURSES / WORKSHOPS

- Key Principles of Lean Manufacturing
- Peer-Led Team Learning CAHSI Workshop

WORK EXPERIENCE

International Business Machines (IBM) – Business Support System IBM Cloud Backend Software Developer Co-op

- Wrote integration tests in Java, JavaScript, Python and Golang for the Open Service Broker (OSB) API in the IBM Platform Services SDK open source projects.
- Implemented a test service API following the OSB specification, using IBM Cloud Functions.
- Implemented the backend for *NewChance*, an ex-convict rehabilitation platform my team and I submitted as an MVP for the IBM North America Intern Hackathon 2020.

Abarca Health, LLC - *Migration* of User-Permission Management System Software Engineering Internship

- Updated database items, like Stored Procedures and Synonyms, to implement a new user-role-permission logic across Abarca's applications.
- Identified and fixed bugs to enable usage of an application to manage the new user-rolepermission system, using **Angular** for the frontend and **ASP.NET Core** for the backend API.
 Solved bugs including reducing a page's loading time by 83%, Internet Explorer compatibility
- Organized the permissions table by validating used vs. unused permissions, standardizing naming conventions and fixing spelling / grammatical errors within the database.

LEADERSHIP / EXTRACURRICULAR EXPERIENCE

Engineering PEARLs PLTL Mentor (UPRM)

Offering PLTL workshops and individualized mentoring to ePearls students. Aug 2019 - Present

Community Engagement Project Coordinator

Created workshops and activities to promote interpersonal engagement
 Aug 2015 - May 2016
 between residents in the Los Olmos Condominium community.

AFFILIATIONS

- Association for Computing Machinery (ACM-CSE UPRM), Member of RUMStats Project Team
- Society of Hispanic Professional Engineers (SHPE), Member of Support Team
 National Science Bowl Volunteer
 UPRM 2020

<u>AWARDS</u>

Lockheed Martin Scholars Program	Feb 2017
Banco Popular Foundation's Rafael Carrión Jr. Award for Academic Excellence	May 2016

Microprocessors and Embedded Systems

Data Structures, Databases

Leonardo G. Torres De La Rosa

leonardo.torres5@upr.edu • (787) 949-8712 • San Juan, PR • github.com/lgtdlr

Education	
University of Puerto Rico, Mayagüez Campus	Expected Graduation Date: Dec 2022
Bachelor of Science in Computer Engineering: Computing Systems	GPA: 3.71/4.00
Relevant Courses	
Microprocessors & Embedded Systems • Electronics I	 Communications theory Logic Circuits
Relevant Skills	
• Experienced in Java, C language, and Python syntax.	
• Knowledgeable in Cadence circuit designing and simulation.	
 Knowledgeable in Docker and Kubernetes. Fully bilingual in English and Spanish 	
Work Evnewice as	
Vork Experience	June 2020 - August 2020
Tech Intern	54110 2020 114gust 2020
• Built a facial recognition Android app implementing sentiment analysis and temperature	re detection.
 Implemented a Docker based app architecture to make use of 5G MEC. Conducted research and propered documents on emerging technologies 	
 Conducted research and prepared documents on emerging technologies. Presented valuable insight and recommendations on emerging technologies. 	
NAVSEA Naval Surface Warfare Center	January 2020 - May 2020
Computer Engineering Intern	
 Inspected and tested 505 input-Output Modules. Led OS Software testing for various laptops. 	
• Created testing procedures and updated technical documents.	
Leadership Experience	
Student Counselor at University of Puerto Rico, Mayagüez Campus	September 2017 - Present
Co-leader	
 Functioned as a co-reader managing and organizing groups of 50 freshnen engineers. Thoroughly planned and prepared activities, and the logistics for each day of the orient 	ation week
 Taught around 300 freshmen about the fundamentals of college through presentations a 	and activities.
Projects	
Industrial Affiliate Program Undergraduate Research at University of Puerto Rico, Maya	güez February 2019 – May 2020
Volunteer researcher	
 In charge of gathering and interpreting data related to connection fatericy and distribution Presented our gathered data to 10 assisting companies and professors in the IAP confer 	ence.
• Researched how to simulate a 5G environment using Docker containers and Kubernete	s.
DIT and MOSEET Amplifians Circuit Designing	L 2010 J. L. 2010
Electronics course project	June 2019 – July 2019
 Designed and simulated different BJT and MOSFET Amplifiers using Cadence PSpice 	
• Created and characterized circuits that would meet specified gain requirements.	
• Compared the amplifiers with each other in terms of speed and power consumption by graphs, and DC/AC swapps	analyzing obtained values, transient
graphs, and DC/AC sweeps.	
Eclipsed-Snake and Diner Dash Java Games	August 2019 – September 2019
Advanced Programming course projects	
 Designed and implemented new reatures as in debug commands, game mechanics, and Followed coding ethics for developing programs using Object Oriented Programming (visuals to the games.
 Used git to collaborate in pairs. 	
Honors	
Golden Key collegiate honor society, 2019 – Present	_
• IEEE-Eta Kappa Nu (IEEE-HKN), 2019 – Present	

- •
- IEEE-Eta Kappa Nu (IEEE-HKN), 2019 Present Sigma Alpha Pi, National Society of Leadership and Success, 2018 Present Program for Engineering Access, Retention, and LIATS Success (PEARLS), 2018 Present •
- National Society of Collegiate Scholars, 2019 Present •

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Rose M. Sánchez-Irizarry

rose.sanchez@upr.edu | US Citizen |

Address: HC-1 Box 26911 Sabana Hoyos, PR 00688 Phone: (787) 204-9700

OBJECTIVE: Obtain a summer internship or COOP where I can apply my knowledge as a Computer Engineering student.

EDUCATION: University of Puerto Rico, Mayagüez **Bachelor of Science in Computer Engineering** GPA 3.42/4.00 Expected Graduation Date: May 2023

PROJECTS/WORK EXPERIENCE:

CROME: RUMarino Embedded Systems Division Member August 2018 – Mav2019 Researched options of cost-effective materials to design and implement a waterproof bumper switch to detect frontal collisions of the Autonomous Underwater Vehicle (AUV).

- Familiarized with Robotic Operating System (ROS) and Python to communicate with the AUV.
- Developed Arduino program to control rotation of a Futaba s3003 Servo motor.
- Developed Arduino program to control Newton Subsea gripper operation.

Special project: Sound Modulation Team Member

Advisors: Rogelio Palomera PhD & Gladys Ducoudray PhD

- Researched the implementation of sinewaves using MATLAB to reproduce sound. •
- Simulated different rpms of a vinyl to understand the sound behavior in terms of frequency.
- The knowledge will be utilized on implementations with microprocessors.
- Presented project at IAP conference in Mayagüez, PR.

Texas Instruments

Product Test Intern

- Designed and Developed diagnostics program for devise test hardware utilizing C++ as the programming • language.
- Worked with semiconductor simulation tools.

TECHNICAL / NON-TECHNICAL SKILLS:

- Fluent in Spanish and English.
- Basic knowledge of Arduino, MATLAB, Python, C++ programming languages. •
- Basic knowledge in electronics, circuit troubleshooting, circuit soldering, and electrical wiring.
- Intermediate knowledge of Java and object-oriented programming.

RELEVANT COURSES:

- Fundamentals of Computing
 - Algorithm and computer programming Advanced programming
- Data Structures • Digital Logic
- Mater Science for electrical engineers
- Electronics 1

Differential Equations

ACTIVITIES/AWARDS/CERTIFICATION:

- Engineering PEARLS Scholarship •
- Engineering Community Summit (ECOS) participation certificate •
- Explore CRC and CCWiC conference participation certificate
- IAP poster session

August 2018- Present September 14th, 2019 November 2nd - 3rd, 2019 September 19th, 2019

June 2020 – August 2020

August 2018 – Present

Víctor E. Barriera

CB21 Jobos St., Rio Hondo 3, Bayamon, PR 00961 787-318-2179 victorebarriera@hotmail.com

https://victorbarriera1.wixsite.com/myportfolio

OBJECTIVE To be part of an organization and put what I've learned in college to the test

- **SKILLS** Fully Bilingual (English Spanish)
 - Programs: AutoCAD, Minitab, Microsoft Office
 - Technical writing, creative writing, mass media communication
 - Programming Languages: Python, Java
- EXPERIENCE IEEE SAC Team: Región Puerto Rico & Caribe Fall Semester of 2020-Present Public Relations Officer – Online

Tasked with the planification, management, promotion, and documentation of IEEE seminars and activities

Centro Universitario para el Acceso (CUA) – Fall Semester of 2019-Present Tutor – Municipio de Mayaguez

Provided English and Math tutoring for low-income, middle school, high school, and college students

Coal Combustion Residuals Research – Spring Semester of 2019

Assistant – Chemistry Building, UPRM

Helped Prof. Carrasquillo gather information about the ecological and health hazards produced by the ashes poorly stored and processed across Puerto Rico in order to file a case against the EPA to push for new guidelines

Bilingual Summer Camp - 2017 Camp Counselor – Levittown, PR

Humane Society of Puerto Rico - 2016 Community Service Volunteer – Guaynabo, PR

EDUCATION UNIVERSITY OF PUERTO RICO – Mayaguez Campus Bachelor of Science in Computer Engineering – Expected Graduation in 20

Bachelor of Science in Computer Engineering – Expected Graduation in 2023 Relevant coursework:

- Algorithms and Computer Programming
- Foundations of Computing
- Advanced Programming

RECRUITMENT, RETENTION, AND DISTANCE ENGINEERING EDUCATION PROJECT (R2DEEP) - UPR Mayaguez

Engineering Graphics and Pre-Calculus, I & II - August 2017 - May 2018

HONORS & ACTIVITIES Lurgrea Central College Class Valedictorian – 2018

UPR Mayaguez College of Engineering Pre-Engineering Summer Camp – 2017

Program for Engineering Access, Retention, and LIATS Success (PEARLS)

Institute of Electrical and Electronics Engineers (IEEE) – Student Member

Computer Science & Engineering

Nomo	Availability	
Name	Spring	Summer
Gabriel Rodríguez Ortiz	\checkmark	
Joshua Cruz Cintrón	\checkmark	\checkmark





OBJECTIVE: To pursue an internship where I can contribute towards its success and have a learning experience.

EDUCATION: University of Puerto Rico, Mayagüez, Puerto Rico

Bachelor's Degree in Computer Science and Engineering Curricular Sequence in Mathematical Probability and Statistics Expected Graduation: May 2022 GPA: 3.91/4.00

COURSEWORK: Data Structures, Fundamentals of Computing, Data Mining/ML, Big Data Analytics

TECHNICAL SKILLS:

- Programming Languages: Python (advanced), JavaScript/TypeScript (intermediate), Java (intermediate), HTML/ CSS (intermediate), Go (basic), Scala (basic), SQL (basic), C++/C (basic)
- Frameworks: Django, Flask, React, Restify, Express.js, jQuery, Selenium
- Tools and Technologies: git, Docker, Node.js, Jenkins, JIRA, Heroku, PostgreSQL, MariaDB/MySQL, Linux

EXPERIENCE:

Advanced Programming Course, UPR at Mayagüez – Teacher's Aide

• Programming lab instructor of around 26 students. Supported professors with the coursework and provided learning resources to students.

JPMorgan Chase & Co. – Software Engineering Intern

• Worked in an agile team building a solution for a non-profit. Collaborated in the development using Flask and React. Dockerized app configuring Nginx, gunicorn and PostgreSQL containers and deployed it in an EC2 instance.

RUMBus, UPR at Mayagüez – Software Developer

 Collaborated in the implementation of the backend and testing, using technologies as Restify, Jest, Docker, DynamoDB and MariaDB. Implemented an OpenAPI specification and integrated documentation deployment to GitLab pages in the CI pipeline.

Judicial Branch of Puerto Rico – COOP

 Worked as a Confidential Systems Analyst Programmer, with a team employing scrum framework developing a web application. Containerized app for production environment. Implemented a test plan with JMeter to perform load testing on the server. Reduced tests running time by 75% using parallelization with Jenkins.

Moonbuggy Engineering Team, UPR at Mayagüez – Telemetry Member

• Worked in the development of the backend that processed rover's data, implementing a REST API with Node.js and Express.js. Also collaborated in the Angular frontend for data visualization.

ACTIVITIES:

American Society for Engineering Education – Board Member

• Visited schools and offered knowledge about different engineering branches. Impacted high school students providing a review of mathematical concepts for the College Board exam. Collaborated in CS workshops.

AWARDS:

Inter-university Programming Competition – 1st Place

• Virtual Programming Competition organized by the Computer Science Students Association at UPR-Bayamon. Finished 1st place out of 31 participants from different universities in Puerto Rico.

Jul 2020 – Aug 2020

Aug 2020 – Present

Nov 2019 – Present

Jun 2019 – May 2020

Jan 2019 - May 2019

Aug 2018 – Present

Apr 2020

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Education

2017-08 -	Bachelor of Science: Computer Science and Engineering	
Current	University of Puerto Rico Mayagüez - Mayagüez, Puerto Rico GPA: 3.49	
	Expected Graduation: May 2022	

Work History

2020-02 -	Full-Stack Developer Intern	Link
Current	 Abartyshealth, San Juan, PR Developed Python scripts to process data from millions of patients and transform it for monthly company reports Deployed Lambda functions in AWS to form pipeline that identifies and sends data of interest to other entities Created company support website using Django web framework 	WW josh GitH githu
2019-11 -	Backend Developer	Skil
Current	 RUMBus, Mayagüez, PR Increased team productivity, and automated quality assurance Created CI/CD pipeline using Gitlab, Docker, Jest, and Heroku to test and deploy backend service for client-side teams. All changes to source code are now automatically integrated in less than 5 minutes, and tested thoroughly before deployment 	Pro1 - P N - Sc - G
2019-08 -	Teacher's Aide (Advanced Programming Course)	– B
Current	 Computer Science and Engineering Department, Mayagüez, PR Collaborate with Professors, and other Aides to provide useful and diverse learning resources for all enrolled students Designed challenging class projects for applying core course concepts such as Object-Oriented Programming, recursion, and sorting using Java or C++ Supported programming labs of 25 to 30 students, helping them apply course concepts to programming challenges 	– Ja Ty – Ja – SC – H Exp o
2018-06 -	Confidential Systems Analyst Programmer	Ba
2019-08	 General Court of Justice, Mayagüez, PR Created web applications using Python, Django, JavaScript, jQuery, and PostgreSQL Developed, tested, and deployed application used by more than 300 Judges in Puerto Rico Analyzed and migrated 5 million rows of data from legacy database to new application Optimized application testing by designing wrapper for unit testing using Selenium Web driver tool 	- D - C Act 2020
Projects		2019

Curriculum Algorithm (API)

- RESTful API that takes the dependencies between courses in a curriculum and traces the shortest path (least semesters) towards graduation College Housing (API)
- A Restful API that uses GIS to find housing near predetermined colleges and filtering by common features desired by students

Contact

Address Mayagüez, PR, 00680

Phone (787) 429-2447

E-mail joshua.cruz15@upr.edu

edIn edin.com/in/joshuacruzc

/W uacruz.xyz

Hub ub.com/Joshuacruzc

lls

ficient:

- ython (Django, Flask, pandas, lumPy, SciPy, Matplotlib)
- oftware Testing
- iit
- ackend development

ermediate:

- avaScript (Node.js, React, jQuery, ypeScript)
- ava
- QL (PostgreSQL, MySQL)
- ITML & CSS

erience with:

- WS (EC2, Lambda, S3, DynamoDB, atch, etc.)
- ocker
- ++ (OpenFrameworks)

ivities & Volunteer Work

0 - Hackathon: "Hack-a-Virus"

Create solutions regarding the COVID-19 pandemic. 2nd Place

9 - Computer Science Workshops

 ASEE initiative for teaching programming fundamentals to high school students Volunteer.

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Electrical Engineering

i.	Namo	Avai	Availability	
	Name	Spring	Summer	
	 Alexis Burgos Rivera 	\checkmark	\checkmark	
	Angel Figueroa Davila	\checkmark	\checkmark	
	Carlos R. Mercado Oliveras	5		
	Carol Ortiz Menéndez	\checkmark	\checkmark	
	 Diego Garcia Robles 	\checkmark	\checkmark	
	Man Tong Sam Chi	\checkmark		
	Marlene M Mendez Mendez	\checkmark	\checkmark	

President	January 2019 – Present		
In charge of the technical, professional and volunteer activities, help students t	o do their best, assist companies, look for ideas to		
develop the association present reports find funds from interested companies	scheduled meetings and divide tasks		
Power and Energy Society Mayagilez	Sentember 2019		
Coordinator, Volunteer	September 2017		
 Provided happiness to homeless people through a breakfast organized by IEEE ass 	ociations		
Montaña Explora, Naguabo P.R.	October 2017 – December 2017		
Volunteer			
• Maintenance of green areas and acted as a tourist guide assistant in attractions.			
Mi Pequeño Albergue, Animal Sanctuary	August 2017 – September 2017		
Volunteer	S		
• Bathed, fed and provided medications to animals under an expert's supervision.			
RESEARCH:			
Cultivating Responsible Wellbeing in STEM	Iune 2020 – August 2020		
Researcher	June 2020 Mugust 2020		
• Participated in a symposium as a facilitator, helping the Arenas community in G	uanica to identify the design process for a community		
center.	dance to identify the design process for a community		
• Helped to design tree photovoltaic systems with production capacity of 300W, 1kW	V and 2kW.		
• Research the Grid Modernization Plan for P.R. to analyze how many families coul	d it help.		
Energetic future for Puerto Rico	August 2018 – May 2020		
Researcher			
• Looked for information about the last places where electricity was restored after H	urricane María to see if a microgrid system was viable.		
• Made an analysis of strategic places to place photovoltaic systems for the UPRM v	with the programs PV Watts and google Sunroof.		
Resilience Electric System of Puerto Rico	October 2017 – February 2018		
Researcher	U U		
• Researched for information about how Puerto Rico's electric infrastructure got affe	ected by Hurricane Maria.		
• Made surveys on whether the information provided by the AEE was correct.	5		
• Helped set up 1kW photovoltaic systems for communities without electric service	after 4 months of Hurricane Maria.		
WORKING EVERDIENCE.			
WORKING EXPERIENCE:			
WORKING EXPERIENCE: Restaurant La Finca, Naguaho P.R.	May 2017 - July 2017		
WORKING EXPERIENCE: Restaurant La Finca, Naguabo P.R. Maintenance – Runner	May 2017 – July 2017		
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Ana Delia Flores Santana School Certificate in Electricity GPA: 3.89 / 4.00

Graduation: May 2017

to Tomas #96 call	e San Lucas, Naguabo, P.R. 00718
(787)- 988- 5178	alexis.burgos2@upr.edu

EDUCATION:

University of Puerto Rico, Mayagüez Campus Bachelor's Degree in Electrical Engineering GPA: 3.70 / 4.00 Expected Graduation Date: May 2023

ACTIVITIES:

Power and Energy Society (PES)



Ángel A. Figueroa Dávila

angel.figuedav@gmail.com• angel.figueroa22@upr.edu • <u>https://angelfigueroa22.wixsite.com/misitio</u>

Objective

To obtain experience through internships, COOPs, investigations, and programs for science and engineering.

Education

University of Puerto Rico (UPRM), Mayagüez, PR Major: Electrical Engineering Expected Graduation Date: June 2023 GPA: 3.78

Experience

Undergraduate Research, Solar District Cup – Mayagüez, PR	(January 2021- May 2021)
• Participated and won 1 st place in the Solar District Cup: Denver Distric	t competition. Part of a group
composed of undergraduate and graduate students, and a professor as guide	e, all representing UPRM.
• Used tools such as Aurora Solar, and REopt Lite for solar panel and bat	tery system analysis.
• Selected a proper mounting system for the panels according to the cond	itions of Denver, Colorado.
• Developed design final documentation and pitch presentation for the fir	al delivery and judges.
Undergraduate Research, Design Thinking (Course)– Mayagüez, PR	(January 2021- May 2021)
• Learned and applied the Design Thinking process next to a group of oth	er 5 students from different
disciplines. Topic: <i>How to help college students have a healthy diet?</i>	
• Interviewed over 35 students on their diet, including the development o	f questions and data management.
• Interpreted information from over 100 interviews, and developed over 1	00 ideas for the design challenge.
• Developed the selected idea, and presented it in an online exposition to	a varied public several times.
Mentor, ePearls – Mayagüez, PR	(August 2020- Present)
• Guide a group of 4 electrical engineering students to advance their educ	ational and professional life.
• Establish effective communication with peer mentors, as well as create	workshops for each of our mentees.
Staff, Manager, and Captain of eSports Franchise- International	(February 2020-February 2021)
•Helped create a brand name for an eSports team, while managing and lea	ading its secondary roster.
•Schedule events for players from different countries, as well as contact r	ival teams from all around the world.
•Efficient manage and creation of Discord servers for communication, an	d google sheets for statistics.
Employee, Burger King – Arecibo, PR	(May 2019 – December 2019)
• Employed with a part time job, as sales specialist primarily.	
Managed people, from service to complaints.	
Skills & Relevant Course Work	
• Electronics 1 and Electrical system analysis 3	
Logic circuits and Microprocessors	
Calculus and Differential equations	
• Language Skills [Native: Spanish, Secondary: English]	
Activities & Awards	
1 st place Solar District Cup: Denver District- Mayagüez, PR	(May 2021)
• Earned 1 st place with UPRM's research team, as an undergraduate studen	t, in the design of a solar energy
system, including a storage system for a critical load.	

Member, ePearls – Mayagüez, PR

• Participate in multiple seminars about topics such as research opportunities, internship opportunities, and introduction to engineering.

Student with Honors, University of Puerto Rico – Mayagüez, PR

(May 2019)

(August 2018 – Present)

Carlos R. Mercado Oliveras

HC 07 BOX 71155 Arecibo, PR carlos.mercado4@upr.edu

Cell:939-292-7708

OBJECTIVE

To obtain a full-time role to offer my passion and skills for the company growth and development while increasing my technical knowledge as an Electrical Engineer.

EDUCATION

University of Puerto Rico - Mayagüez Campus Bachelor of Science in Electrical Engineering – Power Systems

RESEARCH AND FIELD EXPERIENCE

GE Renewable Energy

Controls Platform and Interfaces Intern

• Created VBA scripts to standardize the testing and validation process of yaw encoders to improve product quality by displaying the test pass and fail criteria. The scripts allow the user to easily compare the test results with the designed part specs, thus increasing validation speed and the number of tests executed.

• Improved yaw encoder data utilization within the VBA script to enhance the tool efficiency and report accuracy.

GE Renewable Energy

Wind Turbine Power Performance Intern

• Performed and demonstrated the successful migration of power performance process capability simulations in a new simulation environment.

• Co-lead a training session for the power performance team members to ensure an efficient transition to the new simulation environment.

• Created a dashboard using Tableau to consistently compare, analyze, and track how well simulation results predict measured data.

American Electric Power

Protection and Control Engineering Intern

• Led the design and engineering of a distribution breaker replacement project for a transmission substation.

- Developed protection and breaker control settings for a 12.5 kilovolts distribution breaker.
- Modeled distribution breaker settings using ASPEN software to enhance protection scheme for substation equipment.

ABB Industrial C&S of P.R. LLC

Engineering COOP

- Created the necessary documentation for transfer of work from Vega Alta to Arecibo plant.
- Generated assessment for preventive maintenance, spare parts & hardware in preparation to transfer of work.
- Implemented new practices in order to reduce risks to the Vega Alta employees.

Solar Car UPRM

Wiring, Solar Cells and Battery Team Member

• Actively engaged on the improvement of the electrical connections, sensors and telemetry system of the solar car with the objective of improving data collection and monitoring of the solar car performance.

• Coordinated and improved the design of the solar cell arrays from 2016 solar car to ensure the success of current project's standards.

National Society of Professional Engineer - UPRM

Outreach Associate

• Led all the logistics for the preparation of the Plan Design Perform (PDP) challenge in order to improve its organization and time management.

• Organized outreach activities to students ranging from 8th - 12th grade to increase interest and engagement into pursuing STEM related careers.

• Coordinated and collaborated the funding sales for the PDP challenge and accomplished a \$100.00 profit for the NSPE.

June 2019 - August 2019

June 2020 - August 2020

May 2021 – August 2021

January 2019 – May 2019

August 2017 - December 2018

GPA: **3.69/4.00**

Expected Graduation Date: December 2021

August 2016 - May 2017

• • •

Carol Ortiz Menéndez

Contact: carol.ortiz3@upr.edu , E-portfolio , LinkedIn

Logic Circuits Materials Science • Electronics & Laboratory • Circuit Analysis 1 & 2 Calculus 1,2 &3 Microprocessors and Embedded Systems • Programming & Algorithms **Differential Equations** Electromagnetics ٠ **PROJECTS:** Fourier Ptychography microscope inside of a multi-cell well plate using a Miniature Illuminator Module May-July 2019 -Nanotechnology and Biomedicine REU in University of Georgia Athens Developed a Fourier Ptychographic microscopy system which enables multicolor label-free imaging of cells inside of a multiwell plate Communicated with a Host-Processor and digital light processor (DLP) projector to produce the patterns of illumination • required for high-resolution reconstruction of images Generated a code that projected images of patterns like dots and lines Brain Computer System (BCI) **Undergraduate Research Assistant** January 2019 Conducted research in signal differentiation in EEG (electro-encephalogram) EMG (electromyogram) signal removing Stimuli differentiation between different mental states Skills USA Nationals Competitions, Robotics and Automation Technology (7/17) Lead Programmer Nov 2016-June 2017 Created autonomous program of an Automated Arm (Scorbase 4uR) ٠ Designed flowchart program and collaborated with required documentation. • Created Siemens PLC (Programmable Logic Controller) program and logic manufacturing line production • **EXPERIENCE:** Antonio Lucchetti High School Electronics Workshop Aug 2014-May2017 • Managed basic electronic stations (DC and AC current, motors, electromagnetic, switching, sensors) Welded electronic circuits and Robotics Control Systems • Publications: C. Ortiz, R. Carlyle, K. F. Tehrani, L. Mortensen, "Fourier Ptychography Microscopy inside of a multi-well-plate using a Miniature Illumination Module" Poster at Biomedical Engineering Society (BMES) 2019 Annual Meeting, Philadelphia, PA October 16-19, 2019 University of Georgia Athens Poster Presentation ٠ July 2019 **Biomedical Engineering Society Conference** October 2019 **NSF EEC Grantees Conference** October 2019 **RECOGNITIONS: EPEARLS, National Science Foundation (NSF) Scholarship** Selected student (100/3000) November 2018 • Receiving mentoring and guidance in the engineering field • Commitment to a high standard progress and GPA in the electrical engineer bachelor's degree First place statewide Robotics and Automation Programmer Achieving more than 80% on technical and theorical examinations

Las Flores Street Cond Escorial 1 Mayaguez PR, 00680

OBJECTIVE: Looking for an internship/coop or research experience in Electrical Engineering to apply knowledge and skills in a challenging environment to grow professionally and intellectually.

EDUCATION: University of Puerto Rico Mayagüez Campus Bachelor's Degree in Electrical Engineering GPA 3.08 Expected Graduation Date: May 2022

RELEVANT COURSES:

November 2017

TECHNICAL / NON-TECHNICAL SKILLS:

- Fluent in Spanish and English
- Public Speaking and Leadership
- Teamworking
- Proficient in: Scorbase, Siemens, C and Python software programming
- Basic knowledge in AutoCAD

Current Address:

Permanent Address:

Phone: (939) 254-3756

HC 4 Box 14118 Arecibo, PR 00612

Aug 2017-Present

Diego A. García Robles

• diego.garcia5@upr.edu • (787)-223-0754 • RR1 BOX 2068, Añasco, PR 00610

Objective

To obtain an internship where I can learn more about and work with control systems.

Education

Pursuing a Bachelor of Science Degree in **Electrical Engineering University of Puerto Rico, Mayagüez Campus (UPRM) Graduation GPA:** 3.22 **Year:** 4th Year

Relevant Coursework: Analysis of Linear Systems, Intro. to Control Systems, Electric Machines, Microprocessors, Power Electronics II, Circuit Analysis III, Logic Circuits, Signals and Systems

Projects

Industrial Affiliates Program Project on FPGAs

- The goal of the research project was to develop an open-source library of complex floating-point arithmetic operator cores written on VHDL for FPGAs. Two different FPGAs were used for testing (Xilinx's Basys 3 and Altera's DE0-CV) to compare and determine which FPGAs architecture was better suited for performing complex floating-point arithmetic operations.
- I worked with the Altera DE0-CV and have transferred basic floating-point arithmetic cores to the Quartus library and tested these along with their complex counterparts.

Organization

- Engineering PEARLS
 - I am a member of the Program for Engineering Access, Retention and LIATS Success (PEARLS), a college-wide engineering initiative sponsored by the National Science Foundation. This program provides its members with mentors, workshops, soft-skills training, research opportunities, social events, etc.
 - While I have been a part of this program, I have been learning about the different aspects of engineering, business, and economics, while also being part of a research project detailed above and getting to know different companies and start-ups through organized events and recommendations.

Skills

- Programming Language: VBA, VHDL
- Software: Microsoft Office, LTspice, Quartus
- Hardware: Oscilloscope, Digital Multimeter, Function Generator
- Languages: Fluent in English and Spanish

Work History

Pre-Calculus/Calculus Tutor – Mayagüez, PR 2016 –2017, Summer 2020

• Assisted students in pre-calculus and calculus classes who had difficulty understanding the subject and prepared them for their upcoming exams.
Man Tong Sam Chi mantong.sam@upr.edu • (787) 210-2659 • San Juan, PR • <u>linkedin.com/in/mantong-sam</u> • <u>mantongsam.wixsite.com/mysite</u>

Objective

Education Expected Graduation Date: May 2023 University of Puerto Rico, Mayagüez Campus Expected Graduation Date: May 2023 Bachelor of Science in Electrical Engineering GPA: 3.42/4.00 Minor in Computer Science and Engineering • Electrical System Analysis III • Statistics and Probability • Intro. to Control Systems • Electronics II • Statistics and Probability • Microprocessors I • Electronics II • Economic Analysis
Relevant Coursework • Electrical System Analysis III • Statistics and Probability • Microprocessors I • Electronics II • Economic Analysis Leadership Experience • Electronics II • Economic Analysis
 Intro. to Control Systems Microprocessors I Electrical System Analysis III Electronics II Economic Analysis
Leadershin Experience
Institute of Electrical and Electronics Engineers (IEEE-UPRM) September 2018 – Present
 Developing leadership and management skills by organizing technical and company-related activities. These activities include PCB Design and soldering, Circuits 101, PSpice seminar, and among others Take photographs and video of activities. Create photo and video albums
Extracurricular Experience and Projects
RUMarino May 2019 – Present
 <i>Team Member</i> Researched a visual communication system utilizing LED lights in order to troubleshoot and debug the AUV's software Developed a custom PCB for visual communication system for Arduino Nano board Documented and organized photos for the implementation of machine learning in AUV Awarded 15th place out of 54 in the 2019 Robonation's Robosub competition hosted in San Diego, California
Program for Engineering, Access, Retention, and LIATS Success (PEARLS) October 2018 – Present Active Member October 2018 – Present
 Selected for program that helps students with low financial income strive for success with the necessary tools and in- depth guidance from professors and mentors
 Participate in activities, seminars, and semester courses on the development of engineering skills such as: Introduction to Research, Plagiarism and Academic Honesty, Career Planning, Managing Budget, and Library Research Methods
Washing Machine ControllerDecember 2019Class ProjectDecember 2019
 Designed a washing machine controller circuit design with two different washing and 3 different speed settings utilizing counters, switches, D-Flip Flops, and LED lights Tested the design with different configurations and speeds utilizing LogicWorks circuit design tool software
Coqui Audio Signal Noise Reduction March 2020 Class Project March 2020
 Utilized MATLAB to remove background noise utilizing approximating of ideal, linear phase, and low-pass filter and isolated the coqui calling signal utilizing approximation of ideal, linear phase, band-pass filter. Documented the complete process of the project and wrote final report.
Relevant skills

- Beginner in C/C++, Assembly, MATLAB, Python, Java, ROS, Microsoft Office and Photoshop ٠
- Beginner in Eagle, Cadence PSpice, Fusion 360 •
- Fully Bilingual in English and Spanish •

Honors

- PEARLS Scholarship, Present •
- National Society of Collegiate Scholars, 2019 Present •
- IEEE HKN Honor Society Member, 2019-Present ٠
- Boeing Academic Excellence Scholarship, 2019 ٠





Marlene M. Méndez Méndez

	Hc 01 Box 4778, Camuy, P.R. 00627 (7	787) 328-8578 <u>marlene.mendez(</u>	<u>@upr.edu</u>
EDU	CATION		
Univ	ersity of Puerto Rico, Mayagüez	EXPECTED 05/2023	Mayagüez, PR
BS.]	Major in Electrical Engineering		GPA: 3.08/4.0
Cour	ses: Calculus (I, II, III), Physics (I, II, and labs	s), Chemistry (I, II, and labs), Circuit	it Analysis I
Elec	tronics Workshop, Antonio Lucchetti Vocat	ional High School (08/15 – 06/18)	GPA 3.88/4.0
PRO	FESSIONAL EXPERIENCE		
Sout	heastern Undergraduate Internship in Nano	otechnology (SUIN) REU	06/2021 - Present
0	Undergrad Research Experience in Nanotechnol	logy at Georgia Institute of Technolog	gy. (Atlanta, GA)
Stud	ent, NASA Lucy Student Pipeline Accelerat	or and Competency Enabler	01/2021 - 04/2021
0	Proposal Writing and Evaluation Experience (I	NPWEE) Academy Spring 2021. W	orking with a team
	learning how to effectively write a proposal to tu	Irn an innovative idea into reality.	
0	Selected as one of the winning proposals of the	spring academy, we will be receiving	\$10K to further the
	research and development of our idea.		
Stud	ent, NASA Lucy Student Pipeline Accelerat	or and Competency Enabler	08/2020 - 12/2020
0	Mission Concept Academy Fall 2020. Part of	the science division conducting res	earch of Enceladus
	atmosphere and the characteristics of the system,	, subsystem overview, and payload su	iccess criteria.
Secr	etary, Society of Women in Space Exploration	on (SWISE UPRM)	08/2020-05/2021
0	Secretary of the organization		
Men	tor, ePearls PLTL Mentorship Program		05/2020 - 03/2021
0	Mentor of the PLTL program that focuses on pro-	moting team learning, peer leadership,	, the use of problem-
	solving techniques, promotes critical thinking, an	mong others.	
Secr	etary, American Society for Quality (ASQ U	(PRM)	01/2019 - 05/2019
0	Secretary of the organization		
AWA	RDS AND HONORS		
Prog	ram for Engineering Access, Retention, and	l LIATS Success (ePearls)	10/2018 - Present
0	Awarded with a scholarship in the program disciplines to successfully complete their study r	sponsored by NSF, helps students	in all engineering
Com	netitor. Robotics and Automation Technolo	gy National Competition	04/2018-06/2018
0	First place at the state level and participate in co	mpetitions at the national level.	0.12010 00.2010
LEA	DERSHIP EXPERIENCE		
Staf	American Society for Engineering Educati	ion (ASEE UPRM)	11/2019
0	Participated in the activity that seeks to promote	the engineering careers offered at UP	PRM.
0	Part of the Civil and Surveying Engineering sta	ff at the Engineering Fun Day where	we talk about their
	offers in this field and execute a dynamic of thes	e careers.	
Staf	, Society of Hispanic Professional Engineers	s (SHPE UPRM)	02/2019
0	Part of the staff at the Engineering Diversity Ger	neral Expo (EDGE) Activity.	
0	Assisted organizing students, distribution of lunc	ches, and part of the activity registration	on area.
ADD	ITIONAL INFORMATION		
•	Technical Skills: MS Suite, Canva, robotics,	digital electronics, Arduino.	
•	Languages: Fluent in Spanish and English.		
•	Online Courses and Certificates: Python fo	r everyone Certificate (UM/edX)	
•	Volunteering : Volunteered 65 hours during a	a month at CS4 Girls Academy in the	University of
D	Puerto Rico at Arecibo (2017)		

REFERENCESAvailable upon request.

Engineering Science and Materials



Shyla M. Lugo Morán

(787) 235-7090 P.O. Box 182 Las Piedras, P.R. 00771 shyla.lugo@upr.edu

OBJECTIVE

Obtain a full-time opportunity in which I can relate my Chemical and Materials Science Engineering skills and knowledge for the benefit of the company.

EDUCATION

MA Materials Science and Engineering January 2020- Present University of Puerto Rico, Mayagüez Campus (GPA 4.00) **BS** Chemical Engineering Curricular sequence in Engineering Sciences and Materials December 2019 University of Puerto Rico, Mayagüez Campus **Related Courses:** Bioreactor Engineering; Introduction to Materials Characterization; Polymer Engineering; Stability and Processing of Materials; Structure ang Properties of Materials

EXPERIENCE

Instructor

- Lecture the fluids mechanics laboratory and familiarize students in the subjects of laboratory safety • and report writing
- Proofreader of reports and quizzes

Teacher Assistant

• Proofreader of assignments, quizzes and tests for the Engineering Materials undergraduate course

Master's Thesis

- Fabricate tensile specimens
- Prepare nanoparticles
- Study the Portevin-Le Chatelier (PLC) phenomenon in aluminum-magnesium alloys and the effect of • adding nanoparticles

EXTRACURRICULAR ACTIVITIES

- American Chemical Society (ACS) •
- Material Advantage Bulldogs Camp Voluntary Work •
- American Institute of Chemical Engineers (AIChE) •
- Pre-Engineering Summer Camp

SKILLS

Technical

- Aspen Plus
- Microsoft Office Suite

Non-technical

- Fully Bilingual in English and Spanish
- Vario-Planetary Mill Pulverisette

August 2015- Present *April* 2017 August 2015- May 2016 **Summer 2012**

January 2020- Present

January 2020- Present

August 2019- Present

Industrial Engineering

Name		Availability	
		Spring	Summer
•	Bryan S. Ortíz Torres	\checkmark	
•	Cristina Bonilla Cruz	\checkmark	
•	Frederick Y. Gonzalez	\checkmark	
•	Isabel López Victoria	\checkmark	
•	Loaiza Medina Perez	\checkmark	\checkmark
•	Rosa Laureano Marrero	\checkmark	\checkmark
•	Ruben Lopez Gonzalez	\checkmark	\checkmark

Bryan S. Ortiz-Torres

bryan.ortiz4@upr.edu | (787) 202-2024 | linkedin.com/in/bryan-ortiz-torres

PROFESSIONAL PROFILE

Industrial Engineering undergraduate student with interest in Statistical Learning, Quality Control & Production Control.

EDUCATION University of Puerto Rico, Mayagüez Campus (UPRM) Expected Graduation: May 2021 BS in Industrial Engineering GPA: 3.62/4.00 Major GPA: 4.00 **Relevant Courses Applied Statistics** Production Control Work Measurement Statistical Quality Control Operations Research Ergonomics Design of Experiments Economic Analysis WORK EXPERIENCE MPS Supply Chain Coop - Merck, Las Piedras January 2020 – Present Developed a standard and sustainable approach methodology to improve laboratory efficiency and lead time up to 90% while reducing overtime costs for at least 80% as part of a global initiative to achieve world class performance. Enhanced communications channels between manufacturing and quality divisions by designing a more efficient tier process. Applied and analyzed KPI's of the laboratory and worked in the creation of Bill of Materials. Work Measurement Project Student - Villa Design, Aguada August 2019 – December 2019 Advisor: Dr. Cristina Pomales Proposed an entire time study, a layout design and a prediction model to standardize work and establish compensations in order to improve the company's profits and performance. Ergonomics Project Student - INDULAC Inc., San Juan January 2019 - May 2019 Advisor: Prof. Glorimar López-Roldán Developed an ergonomic evaluation of one of the industry's tasks using RULA, REBA and NIOSH equation to propose recommendations considering the limits and capacities of the institution as a whole. RESEARCH Automated Cut-off Feature Selection Approach August 2020 - Present Research Advisor: Dr. Wandaliz Torres García Currently working on a research area that aims to fine-tune an automatic cut-off feature selection methodology. Molecular Characterization of Chimeric Antigen Receptor T-Cells August 2019 - May 2020 Research Advisor: Dr. Wandaliz Torres García Intending to characterize important attributes of cellular therapies that will help monitor safe and potent treatments early in their manufacturing process implementing unsupervised learning techniques to assess donor-to-donor variability. LEADERSHIP EXPERIENCE Industrial Engineering Councilor, Faculty of Engineering Students Council August 2018 – Present Mentor, Peer-Lead Team Learning (PLTL) February 2019 – December 2019 Student Guidance Counselor, Counseling and Psychological Services Department May 2017 - Present Project Management Coordinator, Colegio Racing Engineering – FSAE UPRM August 2018 – December 2018 Services & Logistics Coordinator, SHPE-UPRM January 2018 – May 2018 HONORS AND AWARDS Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP) August 2019 - Present Receiver of a scholarship sponsored by NSF that aims to help undergraduate STEM students continue graduate studies. **Engineering Pearls Program** October 2018 – Present Chosen among 90 of 2,000+ students to be part of a college-wide initiative sponsored by NSF to receive individualized career mentoring, soft-skills training and peer-mentor activities. **OPPS** University of Wisconsin-Madison November 2019 Selected to receive academic and professional development workshops to enrich graduate school admissions. Goldman Sachs Exploratory Program 2019 March 2019 Selected among 90 of the 3,000+ applications from all the United States to participate in career workshops, network with professionals, and develop my leadership skills. Credicentro Coop Scholarship August 2016 . Received an academic scholarship for having an outstanding academic result and promoting cooperative values. SKILLS Statistical Tools: R Studio, Minitab Languages: Spanish (native), English (proficient)

Statistical Tools: R Studio, Minitab Programming: Python (beginner), C, MATLAB & Lingo Applications: Microsoft Office Trainings: GMP's, Data Integrity, Industrial Safety



Cristina M. Bonilla

cristina.bonilla2@upr.edu

(939) 265 -8015

https://cristinabonilla2.wixsite.com/misitio

OBJECTIVE

To obtain an internship or coop opportunity in Industrial Engineering or related fields to gain knowledge and hands-on experience within a professional environment.

EDUCATION

University of Puerto Rico, Mayagüez Campus Bachelor's Degree of Science in Industrial Engineering (4th Year) Expected Graduation Date: May 2022 GPA: 3.37/4.00

HONORS

Alpha Pi Mu Industrial Engineering Honor Society MemberJanuary 2021 - PresentProgram for Engineering Access, Retention, and LIATS Success (ePEARLS) - ScholarshipOctober 2018 - PresentIndustrial Engineering Honor RollAugust 2017 - December 2019

RELEVANT COURSES

Economic Engineering Analysis, Work System Design, Probability and Statistics for Engineers, Algorithms and Computer Programming, Engineering Graphics and Materials, Databases and Information Systems, Fundamentals of Project Management

PROFESSIONAL EXPERIENCE

Arecibo Observatory Radiation Pattern Measuring Drone	January 2020 – June 2021
• Project Manager and Co-Leader (Undergraduate Research at UPRM sponsor	ed by MIT-LL)
Peer-Lead Team Learning Mentor (ePEARLS Program sponsored by the NSF)	February 2020 – May 2021
• Mentor of four students to help guide them with the program's activities and re	equirements
Program for Engineering Access, Retention, and LIATS Success (ePEARLS)	October 2018 - Present
• Scholar	
American Society for Engineering Education	January 2019 - January 2020
• Active member (Leading Staff in activities)	
Society of Hispanic Professional Engineers (SHPE-UPRM)	August 2017 - January 2018
• Active Member (Participant of meetings, activities, and workshops)	
WORK EXPERIENCE	
ISOLINA POP – Centro Sor Isolina Ferré, San Juan, Puerto Rico	
Customer Service Representative	Summer 2018
EXTRA-CURRICULAR ACTIVITIES	
Project: Ergonomic Evaluation in Industry	August 2020 - January 2021
Group Member	
Medtronic, Villalba, Puerto Rico	
Capstone Project: Bottleneck Inspection in Warehouse	January 2019 - May 2019
Mentee and Team Member	
Abbot, Arecibo, Puerto Rico	
Scuba Dogs Society	Spring 2017
Volunteer and Group Leader	
• Beach and community cleaning, administrative work	
SKILLS	
• Fully bilingual	

• Intermediate in Python, MatLab, Visual Studio 2019, Sketchup, R, Minitab, MySQL and AutoCad

- Proficient in Microsoft Office, such as: Word, Power Point, Excel, and Project
- Ability to work with efficiency in groups and communicate effectively

(787) 960-2203 | frederick.gonzalez@upr.edu

EDUCATION

University of Puerto Rico, Mayagüez Campus

Bachelor of Science in Industrial Engineering Minor in Project Management

Lean Six Sigma Yellow Belt Certification

Awarded after completing White Belt training, as well as executing various Kaizen events, accomplishing the objectives of the sponsor and successfully carrying out two relevant projects in the industry

WORK EXPERIENCE

Eli Lilly and Company – Carolina, PR

Productivity Engineering COOP – Competitive Continuous Improvement Department Designed and performed a series of sampling studies in the Fermentation and Culture Lab manufacturing

- areas to analyze operator utilization, identify areas of opportunity, and improve productivity
- Developed a regression model capable of predicting the optimal number of operators to maximize utilization • and support production over different Start-to-Start scenarios of the production
- Co-Facilitated a 5S & 8W Lean Manufacturing training session for the Spring term's COOPs

U.S. Department of Homeland Security – Remote Jun 2020 – Aug 2020 DHS Summer Research Team Program for Minority Serving Institutions - Individual Emergency Response and Recovery: a learning experience from Puerto Rico's encounter with Hurricane Maria

- Developed a mathematical model utilizing inventory control framework in order to maximize the wellness level of an individual throughout the first 48 hours of a hurricane
- Created and developed the Individual Wellness Inventory Level Log (iWILL) mobile application for the model, which provides a checklist of solutions based on submitted events to improve the individual's decision-making process, wellbeing, and overall wellness level during disasters
- Paper of the project was accepted for publication in the Journal of Emergency Management (JEM) and team was awarded a \$50k grant by the DHS to continue research project

Becton Dickinson (BD) – Humacao, PR

Engineering Intern – Summit Kaizen Competition: First Place

- Used Lean Six Sigma methodology to remodel the company's Tier meetings' structure in order to increase their effectiveness; standardized manufacturing lines' dashboards utilizing the SQDCI metric
- Optimized gowning area layout to maximize space utilization, and gowning clothing to reduce time waste
- Improved gowning laundry process achieving \$58k in annual savings

LEADERSHIP EXPERIENCE

Loxodon-1's Test Stand Department – Alpha Astrum

Safety Manager

- Active member of a team designing, manufacturing, and testing Puerto Rico's first liquid rocket engine
- Evaluated safety hazards, performed risk assessments, Fault Tree Analyses, and FMEAs to ensure the safety of the personnel and equipment during manufacturing and hot fire testing of the engine

Engineering Faculty Student Council - UPRM

Secretary of Finance; Councilor

- Represented over 5,000 engineering students at UPRM
- Reviewed and amended the Internal Regulations of the body as part of the Law and Regulations Committee
 - In charge of keeping the Council's safe and finances in order

ACADEMIC WORK

Optimization Driven Biological Discoveries Research – UPRM

Gene Analysis Between Dengue and Parkinson's disease

- Aim to analyze the genes in common, their behavior and their possible relation due to the diseases' frequency in the tropic
- Use of Excel, RStudio and MatLab to filter and analyze data bases of genetic information

SKILLS

- Intermediate knowledge in statistical software: Minitab, RStudio, Excel, StatFit, Lingo
- Intermediate knowledge Python • in and MatLab programming languages
- Proficient on MS Office, G-Suite, SketchUp, • and Microsoft PowerApps
- Basic knowledge on AutoCAD
- Teamwork and leadership skills
 - Fully Bilingual (English Spanish)

Jun 2019 – Aug 2019

Jan 2021 – Present

Expected Graduation Date: May 2022



Aug 2018 – Jun 2020

Aug 2020 – Present

Jan 2019 – May 2020

August 2019

GPA: 3.64/4.00

Isabel M. López de Victoria Martínez

isabel.lopezdevictoria@upr.edu / (787) 925-2964

OBJECTIVE: Seeking challenging Internship/COOP that will help develop my knowledge in business, data analyzing, optimization & project management.

EDUCATION: University of Puerto Rico- Mayagüez Campus B.S in Industrial Engineering	GPA 3.30/4.00 Expected Graduation: May 2022
PROJECTS:	
"Equipo Canoa de Hormigón", University of Puerto Rico (UPRM)	May 2020-Present
- Working as a member of the Project Management department of the team.	
- Responsible for organizing the working time for each area of the team.	
- Develop the projects structure through a research paper.	
Accenture Summer Analyst, Tampa Bay Office	June 2020-Aug 2020
- Selected to work on the Miami-Dade County Informs Project as part of a summer internsl	hip experience.
- Assisted the Supply Chain Management team in the testing and training departments	
- Helped implement Oracle PeopleSoft ERP systems and developed end-user training materi	ials.
The Applied Optimization Group, University of Puerto Rico (UPRM)	Aug 2019-May 2020
- Responsible for designing and manufacturing a practical sitting chair made from tennis balls	s.
- Lead a team of three people through the developing process.	
Ergonomic Analysis, "Cervecera de Puerto Rico"	Oct 2019-Dec 2019
- Analyzed the efficiency of the beer barrel refill process in the brewery.	
- Worked alongside the company's engineers and two other students.	
LEADERSHIP EXPERIENCE:	
Institute of Industrial and Systems Engineers (IISE), University of Puerto Rico (UPRM)	Sept 2019-Present
 Selected alongside 20 students for the Institutes Mentorship Program. 	
Society of Hispanic Professional Engineers (SHPE), University of Puerto Rico (UPRM)- CHAMPI	IONS Aug 2019-Present
- Responsible alongside 50 students to attend and help companies visiting the university.	
 Organize activities by reserving classrooms and gathering anything that is needed. 	
Program for Engineering Access, Retention, and LIATS Success, University of Puerto Rico (UPR	M) Dec2018-Present
- Applied alongside more than 700 students and was chosen along with other 150 students .	
- Engineering fellowship designed to help students complete successfully their studies and tra	nsition into professional life.
 Receive mentoring from the top Engineering professors in UPRM. 	
Economic Community Summit (ECOS), University of Puerto Rico (UPRM)-VOLUNTEER	Sept 2019
- Responsible of organizing and setting up the activity for 250 students alongside a group of	20 students.
- Worked alongside 2 companies assisting them in the activities they will be presenting to the	e students.
Capital One Ignite Development Program Selectee,	Aug 2019
- Invited to attend a half-day program focused on developing skills in interviewing, networkir	ig, and personal branding.
- Problem solving mock interview cases.	
- Networked with senior level executives and associates.	

- Obtained skills to help further my recruiting success.

VOLUNTEER WORK

- Provided resources in the restoration process of the University of Puerto Rico, after the **catastrophic** hurricane Maria. Cleaned and dispensed the debris left from the hurricane scattered through the campus with a small group of **15 students** from October 2017 till December 2017.
- Participated in various volunteer work activities cleaning garbage and debris in small communities. Recollected firsthand necessity items to donate for a shelter home for children alongside my sorority Eta Gamma Delta ($H\Gamma\Delta$).

SKILLS:

- Proficient in MS Office Suite
- Minitab
- Moderate Python
- Bilingual (Spanish-English)

LOAIZA G. MEDINA PÉREZ

(787) 981-2741 | loaiza.medina@upr.edu | Parcelas Soledad Calle | Buzón 1409, Mayagüez PR 00680 | https://loaizamedina.wixsite.com/portfolio

EDUCATION

University of Puerto Rico, Mayagüez Campus Bachelor of Science in Industrial Engineering

AWARDS

Engineering Pearls Scholarship

Program Sponsored by the National Science Foundation.

RELEVANT COURSE

Engineering Economic Analysis (Inin4015)

Understand the minimum attractive rate of return (MARR) established. Interpret different money, time, interest and compounding quantities and identify the factors to make them equivalent. Use data in the before tax calculations necessary to rank alternatives using the break-even, equivalent annual costs, present worth, rate of return, or benefit.

Probability and Statistics for Engineers (Inin4010)

Describe data, draw practical conclusions on the basis of engineering data; and the theoretical and applied • background needed to understand and effectively use probability and statistical models.

WORK EXPERIENCE

CITAI Research Project, Bananera Fabre, Sabana Grande, PR **Optimization Analyst**

- Established a new route to collect the banana crops in which the process can be accelerated and thus reduce costs.
- Memorize the farm's blueprint in order to explain to the main researcher where the transportation wires should be installed.
- Research and develop reports for the main researcher. •

Dr. Rivera Bericochea, Dentist Office, Mayagüez, PR

Receptionist

- Received around 60 daily patients and organized their paperwork. •
- Verified they had their medical insurance up to date and were qualified patients. •
- Settled their accounts and scheduled new appointments.

Cómplices Store, Mayagüez, PR

Customer Service Assistant

- Attended the public by answering their question and helping them with their shopping. •
- Handled the cash register and tallied the day's earning. •
- Organized and ordered the stores supplied to make it a welcome environment for shoppers.

EXTRACURRICULARS

Engineering Pearls, UPR-Mayagüez

Member

Chosen from around 1000 students, having achieved a successful interview and having a very high GPA. •

SKILLS

- Computer: Microsoft Office 2016
- Languages: Spanish, English and Python
- Basic Records Management

Estimated Graduation Date: May 2021 GPA: 3.62/4.00

August 2018

January 2019 - May 2019

August 2019 – December 2019

June 2019 – October 2019

May 2019 - September 2019

August 2018 - Present

October 2016 - August 2020

ROSA M. LAUREANO-MARRERO

Mayagüez, Puerto Rico 00680 | (787) 446-5443 | rosa.laureano@upr.edu https://rosamlaureano.wixsite.com/rosalaureano

Education

University of Puerto Rico, Mayagüez Campus Bachelor's Degree in Industrial Engineering

Relevant Courses

- Probability and Statistics for Engineering
- Cost Analysis
- Applied Statistics for Engineering

Academic Experience

Researcher, Smart Crosswalk Light Implementation, Morgan State University

REU experience Investigating and implementing an automatic intelligent crosswalk light based on automatic extraction of the density of vehicles and pedestrians using computer vision and machine learning techniques for vision-based traffic.

Co-founder and Logistic Director, BLAST-UPRM, UPRM

- Participate in the development and design of a Fishing Aggregating Device (FAD) for Bluetide
- Coordinate projects, educational and research activities based on the principles of the blue economy.

Project Management Leader, UAV Honeywell Navigation Challenge, UPRM

- Assigned action items for team members to address all deadlines and task needed to be performed to accomplish the result.
- Performed Risk and Opportunities analysis using NASA standards to enhance the quality and execution of the project.
- Developed Gantt chart to manage the different and members data base system to keep it up to date.
- Managed budget allocation reports and managed team finances (\$2,000) to make sure that are used in the optimal way.

Extracurricular Activities

PLTL Mentoring Program

Mentor 5 students making sure they have support and guidance in gaining professional and academic experiences.

President ASQ UPRM

- Manage and guide a team of 8 while making sure their development and necessities are being addressed.
- Designed and restructured the board of directors to make sure members are getting the tools and skills required to be successful as professionals.

Honors. Awards & Certificates

Program for Engineering Access, Retention, and LIATS Success

- Selected to participate in program along with ~50 students.
- Developing soft skills, finance management, technical skills, and research skills to have all what an engineer needs to have to be successful.
- Scholarship and program sponsored by the NSF.

National Society for Collegiate Scholars

Honors organization that recognizes high-achieving students. Provides career and graduate school connections, leadership, and service opportunities.

Work Experience

Criollo Center for Science and Technology of the Caribbean, Caguas

- Educator providing educational assistance and workshops to students of all ages in the subjects of mathematics, science, and technology.
- Tour Guide of the Permanent Exhibition of the Center, managing 20 people per group and making sure all the doubts are clarified.

Volunteer Experience

Bluetide Volunteer, Fajardo PR

- Coordinate and participate in Volunteering Activities.
- Diver volunteer for researcher purposes.

Skills

- Languages: Bilingual (English and Spanish)
- Software skills: Microsoft Word, Power Point, Excel, Python and Minitab

- Economics
- Algorithm and Programming

May 2021 - Present

Aug 2019 - Dec 2020

June 1 - July 27

General GPA: 3.30/4.00

Expected Graduation: Dec 2023

Jan 2020 - May 2021

Jan 2019 - May 2021

Aug 2018 - Present

Jan 2019 - Present

January 2021 - Present

Sep 2020 - May 2021

Rubén A. López González ruben.lopez8@upr.edu / (787)-328-4030

E

 Linkewing of Patero Rico Margadie Campus B.S. in Industrial Lagiacening. GPA: 5.40 University of Photor Rico Margadies Campus Morin in Protein Management (GPA: 4.00) Relevant course: Lingineering Graphica Algorithm, Dan Bare, Applied State Mechanics, Probability & Statistics Lizperefere: State And Min-Market & Makery (Manging Alexitant) Monin Proteines January 2016- Present Maria Mini-Market & Makery (Manging Alexitant) January 2016- Present Train all new employees in various areas of the basines Approve, administer, and alsess pay roll for all completes Supervise shipments and discharges of mechandase Presente and analyzing data, case studies, and laws Contacting government agneesis for research upposes Conduct Stated analysis of data set Warris Forug Resources (Jasm) Lestarching and analyzing data, case studies, and laws Contacting government agneesis for research upposes Conduct Stated analyses of data set Conduct Stated analyses of data set Conduct Stated analyses of the company by naking charges of for the company Lestarching and analyzing data, case studies, and laws Contact Consumes for the company by naking charges of for the company Created exposures (Jasm) Created exposures (Jasm) Created exposures (Jasm) Created exposures (Jasm) Created comments of the company by naking charges of for the company Created exposures for the company by naking charges of for the company Created exposure for the company by naking charges of the company is acid media accourt Presented the newly created presenthorized roles to the CDD and major executive study fore thronopany and prove the state of the bala Pr	Education:	
	University of Puerto Rico Mayagüez Campus B.S. in Industrial Engineering	GPA: 3.54
 kelevant courses: Engineering Graphies L Algorithm, Dan Base, Applied Static Mechanics, Probability & Statistics kepected Graduation Date: May 2023 Stata And Mair-Market & Bakery (Manging - Latistic) Monitor coursource services to ensure compliance extormer satisfaction Train all new engloyees in various areas of the business Approve, administer, and alsees pary roll or englate extormers satisfaction Train all new engloyees of an encore compliance extormers and factoriance Researching and analysis of data set Contacting government agnetics for ensure norm purposes Contacting government agnetics for ensure norm (Sammer Intern) Contacting purposed net appropriate the proton which secord a data more provisioning agacteres to engloyeres Contacting the ensure notation of the process for its duplication in any other area of the bank Protect Management Experience: Protect Management Experience Protein Hamagement Experience Protein dup agnetics of notacting the late of provision granuling accesses for the bank Contact estimating and agnetics for some to the late and this barse to protein the space dotating and protein the ensure of main estimation of the proteins agnetication in any other area of the bank Contacting of phanking anging and executing baptinis data protein may disasting and protein and angine estimatin	 University of Puerto Rico Mayagüez Campus Minor in Project Management 	GPA: 4.00
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Sum Am Mini Market & Bakery (Managing Assistant) January 2016- Present • Monitor castomer service to ensure complete customer satisfaction • • Approve, administer, and assess pay olf for all exployees • • Approve, administer, and assess pay olf for all exployees • • Contacting government agencies for research purposes • • Contacting government agencies for research purposes • • Contacting government agencies for research purposes • • Contacting downment agencies for research purposes • • On theory of the company by taking charge of the company's social media account • • In charge of documentation which secured a major sponsor for the company June 2019- August 2019 • Created prearthroized roles to refluce the lead time of provisioning accesses to employees • • Presioned the newly created prearthroized roles to the CLTO and major executions with the objective of improving granting accesses for the bank • Hand in a deliverable as documentation of the process for its duplication in any other area of the bank • • Present the newly create prearthroized roles to the CLTO and major executiones with the objective of improving granting accesses for the bank • Created prearthroized frauktion access for its duplication in any other area of the bank • Diardiscid AuneCAD for the creation of project plans and visualize	Work Experience:	
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	Languages: Fluent in English and Spanish Technological: Microsoft Office programs, QuickBooks and basic concepts in AutoCad, BVA, Regular Expressions, T	Power BI and SQL.

Te Sales: Can sell any product and interact with clients so that they feel satisfied and well attended

Social: Great communication and collaborative skills; ability to work as a team

Leadership: Demonstrate flexibility, critical thinking, ability to speak in front of people, and decision-making skills to lead a group of people

Mechanical Engineering

Name		Availability	
		Spring	Summer
•	Adriana M. Muñoz Soto	\checkmark	\checkmark
•	Edmarie Sánchez Gerena	\checkmark	\checkmark
•	Elderson Mercado Rivera	\checkmark	\checkmark
•	Gadiel Rodríguez Díaz		
•	Jean Carlos Toro Correa	\checkmark	\checkmark
•	Jonathan G. Fernandez	\checkmark	\checkmark
•	Karla Deida Villafañe	\checkmark	\checkmark
•	Leticia Diaz Torres	\checkmark	\checkmark
•	Luis Mañan Mejias	\checkmark	\checkmark
•	Michael Hernández	\checkmark	
•	Xiomara Varela Morales	\checkmark	\checkmark
•	Yasmarie Torres Paneto	\checkmark	\checkmark

Adriana Marie Muñoz Soto

adriana.munoz2@upr.edu LinkedIN-adrianamunoz2 (787)-320-6023

EDUCATION

University of Puerto Rico - Mayaguez Campus (UPRM) B.S.—Mechanical Engineering

TECHNICAL SKILLS

Product Design, Product Development Process, BOM Creation, Fusion 360, Siemens NX 11, AutoCAD, On Shape, MS Office Suite, G Suite, Slack, Scrum Method, 3D Printing (Formlabs & Zortax)

RESEARCH EXPERIENCE

National Oceanic and Atmospheric Administration (NOAA) / University of Rhode Island May 2020-present NOAA EPP/MSI (Educational Partnership Program/ Minority Serving Institution) Scholar Create deep-sea imaging system transmitting live footage over a fiber optic fishing line Design several versions of a 3D-printed enclosure to fit the epoxy-potted components of a Raspberry Pi-based deepsea camera and lighting system that will be adhered to a UAV Human Centered Design (HCD) Lab, University of Puerto Rico August 2019-Dic 2020 **Design Thinking Undergraduate Research Student** Optimize "New Venture Design Experience" experimental program to increase student success and entrepreneurship • SURF Program Purdue University, West Lafayette June 2020-August 2020

Pathways Scholar Undergraduate Researcher

Create Machine tool Cost Model for Milling Machines identifying key components that drive the price to observe how design changes will affect the overall cost of the Machine Tool

Hardware Product Sprint (HPS) Program, Google Inc.

Mechanical Engineering Selected Student

- Design unique plastic enclosure in OnShape platform to fit the internal components of Google's AIY voice kit •
- Invited to "EVT week" at Google HQ to assemble, build, complete fit check and present final 3D-printed product & design review to Google hardware engineers and HPS community

National Oceanic and Atmospheric Administration (NOAA)

NOAA-EPP CESSRST Scholar/Intern

- EPP/CESSRST-Educational Partnership Program/Center for Earth System Science and Remote Sensing Technology
- Validated the accuracy of the Velodyne VLP-16 LiDAR sensor and designed a 3D printed mount allowing the sensor to be attached to a UAV in order to collect data and explore the aerial capabilities of said sensor

ACTIVITIES/LEADERSHIP

Design Thinking & Consumer Behavior Course, Teacher's Assistant

Assist in activities, assignments, host events, and mentor students in interactive, experimental, hands-on course August 2020-present

Sofie's Art Studio, Illustration/Art eCommerce

Founder, CEO, and Illustrator

Create a stationery and illustration art business. Function as business manager; head of planning, social media, customer service, shipping, research and development of personalized art items, averaging revenue of \$1200 per month

Society of Automotive Engineers (SAE) UPRM

Graphic Design Director

- Working on project ranging from video editing, event promotions, print & shirt design, and anything creative •
- New Venture Design Experience (Design Thinking & Product Design Course), UPRM August 2019-June 2020 **Product Leader**
- Lead 6-person group in multidisciplinary program that blends engineering design, innovation and entrepreneurship **PUBLICATIONS**

Published Paper by ASME, HCD Lab, University of Puerto Rico Technical Paper, Purdue University, West Lafayette

PRESENTATIONS(POSTER)

SURF Virtual Symposium, Purdue University, West Lafayette NOAA EPP/MSI Virtual Summer Symposium/NOAA OER Summer Symposium HONORS/AWARDS

August 2020

July 2020

J. Lugo, A. Munoz, M. Ríos (March 2020)

A. Munoz, M. Triebe, J. Sutherland (August 2020)



Expected Grad: Dic-2022

GPA:3.61/4.00

June 2019-August 2019

May 2019-August 2019

September 2019-present

January 2021-present

Edmarie Sánchez Gerena

edmarie.sanchez1@upr.edu = 787-399-5809 Calle D Bzn 049 Santa Rosa, Hatillo, Puerto Rico 00659



Objective

Seeking an internship where I can expand my mechanical skills, as a leader, coworker and Education	professional.
University of Puerto Rico, Mayagüez Campus B.S. Mechanical Engineering	GPA : 3.41/4.00 Graduation Date: May 2022
Lean Six Sigma Yellow Belt Certification, GD&T Course	
Baytheon Technologies: Baytheon Missiles and Defense -Tucson, A7	lupe 2020-August 2020
Mechanical Engineer - Intern	Julie 2020 August 2020
 Captured full configuration of a new product being develop through the Indenture Drawing List while using PTC Creo/Windchill. 	ed
• Supported the mechanical integration of the hardware and strain gauge calibratio	n.
• Developed buoyancy spreadsheet to assess debris management post-test event.	
Collected data on loads of Lock Ejector Bolts structure.	
Pratt & Whitney (PW): Global Services Engineering (GSE) Co-OP - Aguadilla, PR Structural & Design Co-OP Student	February 2020-May 2020
GSE Structural Analysis Team Division	
 Documented the engine components for a PW engine for future interns and the process for the structural analyst role. 	
GSE Design Team Division	
 Executed and troubleshooted engine repairs for the aftermarket 	
business while working with blueprints and engine manuals.	
Skills	
 Technical: Siemens NX 12, Data Analysis, SketchUp, AutoCAD, Creo Parametric, AN 	NSYS and Python
 Languages: Spanish (Native), English (Fluent) 	
Microsoft: Word, Excel, PowerPoint, and Visio	
Project Experience	
SAE Aero Design Team UPRM Collegiate Chapter	A
Project Management Department Leader	April 2019- June 2020
 Managed the logistics for a team of 48 members. Implemented schedules to keep team aligned and on track to achieve common goals. 	the
 Led 11-member team, while participating in outreach activities to promote the ST 	EM field
and establishing a safe environment to successfully compete at the SAF Aero Desi	gn
 Baised over \$55,000, while working with sponsors by organizing numerous 	6'''
fundraisers/activities to cover team's trip and manufacture expenses.	
 Competed virtually against 85 Universities, achieving 1st Place Overall in the Micro Advanced Class, and 2nd Place Overall in the Regular Class. 	and
RUM-Air Regular Class Team Member	October 2018- April 2019
• Worked in the Fuselage Division on fuselage manufacturing gaining experience wi use of power tools, CNC, milling machine and band saws. Developed designs using	th g
the Siemens NX 12 program.	
Project Management and Business Department Member	
Head of Team Logistics and Competition. Assisted with the team's competition	
logistics and fundraising activities.	
Associations	
Society of Women Engineering (SWE): UPRM Chapter	October 2018- Present
 Participated on the Charity Committee on activities such as coastal cleanups. 	
Guidance Student: Subdivision Mechanical and Industrial Engineering	May 2018 – Present
 Lead, presented, and organized workshops for over 200 freshman students. 	
Honors and Recognitions	
Program for Engineering Access, Retention, and LIATS Success Scholarship by the	NSF October 2018-Present
Mechanical Engineering Department Honor Roll	2017-2019 47

Elderson Mercado Rivera

Email: elderson.mercado1@upr.edu | Mobile: (787) 447-8714 | E-portfolio: https://eldersonmercado1.wixsite.com/resumeelderson1

OBJECTIVE

Acquire an internship or any professional experience in where I can employ my mechanical engineering knowledge and skills.

EDUCATION

University of Puerto Rico – Mayagüez, Puerto Rico

Bachelor of Science in Mechanical Engineering

Expected Graduation Date: June 2023 General GPA: 4.00/4.00 Major GPA: 4.00/4.00

PROFESSIONAL & RESEARCH EXPERIENCE Stanford University REU (SURF 2021) – Assistant Researcher of the Zheng Research Group June '21 – Aug '21 Currently, as a participant of the 2021 Summer Undergraduate Research Fellowship (SURF) at Stanford School of Engineering, I have been working on a project based on machine learning and materials science mentored by Dr. Xiaolin Zheng and her research group. Low Melting Point Metallic Suspension Nano-composite PCM as a Thermal Management Solution for More Electric Systems (sponsored by NASA Marshall Space Flight Center) – Assistant Researcher Aug '20 – Present Mentored by Dr. Pedro Quintero, I created a matrix of nano-fillers and composites used in the development of a thermal management model. Penn State University REU – Assistant Researcher at the Materials Research Institute June '20 – Aug '20 As a participant of the 2020 Scalable Nanomanufacturing of Complex Materials REU at Penn State University, I conducted a virtual research with Dr. Saptarshi Das in where I discovered alternative 2D materials that could reinstate the complexity scaling of MOSFETs. Diffusion Soldering and Phase Change Materials for Advanced Packaging of Power Switching Technologies (sponsored by the Aug '19 – 'May 20 Army Research Office) – Volunteer Researcher Analyzed and explored, under the mentorship of Dr. Pedro Quintero, efficient phase change materials (PCM) capable of cooling electronic devices properly through thermal analyses and conductivity parameters. Amgen Inc. and Johnson & Johnson - Janssen Ortho LLC – Student Visitor **July '16** Inspected different areas of automation of the company and evaluated the optimization in the manufacture and dispatch of products. **EXTRACURRICULAR ACTIVITIES** May '19 – June '20 **RUM Air Aero Design Team** – Team Member Worked actively in the project management and business department. I also designed and manufactured a CDA (Colonist Delivery Aircraft) for the team's Advanced Class Airplane ('El Padron'), which competed at the 2020 SAE Aero Design West Competition. 2019 NASA RASC-AL UPRM Team – Team Member and Researcher Sep '18 – June '19 Collaborated actively in the design process of a gateway-based lunar vehicle project selected as first place at the 2019 NASA RASC-AL Contest. Specifically, I worked in the structure and design of the landing legs and the robotic arm of the lunar lander in the project named Lunar Exploration and Access to Polar Regions (LEAPR). The final paper for this project can be found by accessing this URL link: Lunar Exploration and Access to Polar Regions (LEAPR) | AIAA Propulsion and Energy Forum National Society of Leadership and Success (NSLS) – Member September '20 – Present National Society of Collegiate Scholars (NSCS) – Member July '19 – Present American Society for Engineering Education, ASEE UPRM - Member Aug '18 – Present Offered mentoring to high schoolers for the College Board PAA test. Volunteered as a Mechanical Engineering assistant at the third and fourth edition of Engineering Fun Day, an activity created by the ASEE-UPRM Chapter in where middle school and high school students from unrepresented communities can interact and learn more about the different engineering disciplines through conferences and fun group projects. Come Colegial Program - Volunteer Aug '18 – Present Participated dynamically in the recollection and distribution of free food for undergraduates in financial need at campus. Society of Hispanic Professional Engineers, SHPE UPRM - Member Aug '18 – May '21 Participated as a volunteer at the 2019 Puerto Rico Regional Science Bowl. American Society of Mechanical Engineers, ASME UPRM - Member Aug '18 - May '19 Happy Backpack Program of the Food Bank of Puerto Rico – Volunteer Aug '17 – May '18 Teamed up with the Food Bank of Puerto Rico to prepare and provide backpacks full of food and necessities for low-income children. Drawing the Difference Initiative- Founder and teacher June '16 Provided non-profit art classes for Down Syndrome and disabled adults as a physical and intellectual therapy that could help them ameliorate their motor skills, creativity, and self-expression. **AWARDS / HONORS** Recipient of The Boeing Company Scholarship (Boeing Excellence Award) (2021) • First Place in the Advanced Class category at the SAE Aero Design West Competition (2020) Recipient of the Lockheed Martin Scholarship (2019) First Place (Overall) at the NASA RASC-AL Contest (2019) Participant of the Engineering Program for Engineering Access, Retention, and LIATS Success (E-PEARLS) sponsored by the National Science Foundation (NSF) and recipient of the E-PEARLS Scholarship (2018-2023)

- Dean's List and Honor Roll of the Mechanical Engineering Program (2018-Present)
- Recipient of the National Altrusa International Scholarship (2018)
- Banco Popular's Rafael Carrión, Jr. Academic Excellence Award (2018)

SKILLS

- Fluent in English and Spanish, Lean Six Sigma Yellow Belt
- Microsoft (Excel, Word, Power Point), AutoCAD (Basic), MATLAB (Basic), Python (Proficient), Siemens NX 12 (Proficient),

• Leadership, teamwork, ability to multitask, excellent communication and interpersonal skills. Willing to relocate if needed.

GADIEL E. RODRÍGUEZ DÍAZ

E-mail: gadiel.rodriguez@upr.edu | Phone: (787) 340-9466 LinkedIn: https:// www.linkedin.com/in/gadiel-diaz-616828138/

OBJECTIVE

Improve and develop my professional and personal skills while acquiring experience and contributing to real-world problems through a full-time position.

EDUCATION

University of Puerto Rico-Mayagüez Campus (UPRM) **B.S.** Mechanical Engineering

Relevant Courses

Thermodynamics 1 & 2 | Analysis of Algorithms | Advanced Design | Fundamentals of Circuits & Electronics | Heat Transfer | Mechanics and Sciences of Materials | Fluid Mechanics | System Dynamics | Mechanism Design | Mechatronics | Design of Mach Elements 1 & 2

INTERNSHIPS

Intellicon | Caguas P.R. | Sales Promotor

- Grow and maximize sales through promotion at booths in public spaces, such as commercial centers.
- Improved my soft skills through a client interaction basis.

Fuera LLC | Mayaguez P.R. | Website manager

- Created a structured data mapping about college community exercising areas through images.
- Diversified my knowledge by designing managing the company's website utilizing WordPress software. January 2020 - May 2020
- Engineering and Maintenance Engineer Intern | Lilly del Caribe | Carolina P.R
 - Developed preventive maintenance plan for cogeneration project inside facilities, helped prolong equipment lifetime.
 - Designed maintenance strategy with spare parts inventory for an effective preventive maintenance, reduced downtime.

PROJECTS EXPERIENCES

- A.S.M.E Student Design Competition UPRM team
 - Developed as Leader inside the Design Team and Marketing Department.
 - Designed the structure of the team's robot that competed in the 2018 and 2019 ASME E-FEST. •

Rumarino Team

- Tester and mechanic of an autonomous underwater vehicle (AUV) while designing the designated competition area.
- Evolved my team working skills while interacting with multiple disciplines students.

LEADERSHIP AND EXTRACURRICULAR

- American Society of Mechanical Engineers (A.S.M.E) August 2017 – Present Learned how to strengthen my weaknesses by participating in the Student Design Competition UPRM team.
 - Organized fundraisers, crowdfunding, and collection of food and essentials for children after Hurricane Maria.
 - Society of Hispanic Professional Engineers (S.H.P.E)
 - Enhanced my professional network while helping recruiters during their visit on campus.

"Alianza para un Puerto Rico sin drogas"

- Served as a reporter creating awareness about the importance of health and avoiding drugs.
- Self-motivated about the impact of drugs in people life and how to help people become better fighting group pressure.

August 2010 – December 2016

- Track and field athlete, sprinter 100m dash to 400m dash.
- Developed intensive time management abilities while forging strong discipline.

AWARDS

Sports

ePearls- Program for Engineering Access, Retention and LIATS Success August 2018 – Present CIAPR- Mechanical Engineering Scholarship: Esteban Terrats August 2016 - May 2021 ASME E-Fest- 15th Place at East Fest 2018 and 24th Place at North Fest 2019 April 2018 – April 2019 • AGC- Mechanical Engineering Scholarship: Jose Domingo August 2016 – August 2018 •

SKILLS

- Computer: NX Siemens, SolidWorks, Autodesk, Microsoft Office, WordPress, Python, MATLAB
- Leadership: Teamwork experience. Excellent as team member and leader at motivating and providing solutions.
- Initiative / Achiever: Creative in developing, persistent until tasks are achieved. •
- **Communication:** Experienced at presentations and excellent team interaction abilities. •
- Languages: Spanish (native) and English (fluent) •

Scan me

Expected Graduation Date: DEC 2021

Cumulative GPA: 3.07, Major GPA: 3.61

June 2018 – August 2018

June 2016 – Present

August 2017 - May 2019

August 2016 – Present

August 2015 - May 2016

August 2016 – December 2016

Jean C. Toro Correa



Major GPA: 4.00/4.00

August 2020 - Present

jean.toro1@upr.edu • 787-307-0379 • www.linkedin.com/in/jeantorcorrea

Objective

Disciplined student, interested in acquire more knowledge in the **Mechanical Engineering** field through an **internship** or coop opportunities.

Education

-

University of Puerto Rico at Mayagüez (UPRM) Bachelor's Degree in Mechanical Engineering

Relevant Courses

- Fluid dynamics
 - Materials science Thermodynamics I & II Materials mechanics
- **Professional Experience**

UPRM Moonbuggy Engineering Team

Suspension Design and Manufacturer Department Leader

- Responsible of the design, material selection, analyses, manufacturing, assembling, and the overall performance of the suspension system in all-terrain rover.
- Reducing weight has been the main objective in the team, as a result, the upper A-arms of rover 1 were manufactured with Aluminum 6061.

Wheels Design and Manufacturer Department Member

- Designed, analyzed, and manufactured a new wheel made of carbon fiber and fiberglass, as result the weight of the wheels were reduced by 33%.
- Used SolidWorks to designed tools for retrieving solid and liquid materials and manufactured them with a 3D printer.

Pratt & Whitney P.R. Design Engineering Internship

- Responsible of analyzing and reading drawings for 9 different airplane parts.
- Assigned the quality assurance inspections for 9 different airplane parts.

NASA L'SPACE Academy

Design Team Leader

- In charge of designing and the material selection of the heatshield and back shell of the rover using Solid Edge.
- Developed a NASA mission control proposal for water retrieve from mars.
- As result the design and results were presented to NASA judges.

Programs

The National Society of Leadership Scholars, Mayagüez Chapter (NSLS)

Participate in talks and activities for my professional development.

Engineering Program for Engineering Access, Retention, and LIATS Success

- Participate of instructive talks on the professional development on the engineering field.
- Received mentorship and guidance of a mechanical engineering professor.

Society of Hispanic Professional Engineers, Mayagüez Chapter

Aided companies in recruiting activities during Career Fair season, as member of the Champion's team.

Skills

- Highly Proficient in Word, Power Point and Excel
- Intermediate skills in SolidWorks

- Intermediate skills Siemens NX 12
- Bilingual (English and Spanish)

Honor Awards

- Honor student for three consecutive years
- Special prize in psychology and placed among the semi-finalists, Puerto Rico Math Fair 2017 & 2018
- Highschool Graduation 2018 (English and History cup in high school)

Expected Graduation Date: May 2023

Algorithms (Python)

Dynamics

General GPA: 3.91/4.00

August 2019 - January 2020

January 2019 - May 2019

August 2019 - Present

August 2018 - Present

May 2021 - July 2021

August 2018 - August 2019

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Jonathan I. German Fernández

Email: jonathan.german@upr.edu | Phone: 1-(787) 506-5809

Education:

University of Puerto Rico at Mayaguez (UPRM)

Bachelor of Science in Mechanical Engineering

Experience:

Johnson & Johnson | Global Franchise Integration Coop | Piscataway, NJ

- Assisted with over 65% of upcoming New Product Launches of Medical Devices through consistent tracking, networking, and data validation.
- Successfully practiced Supply Chain readiness through a series of assigned tasks and projects.
- Provided customer service base-business by managing Sales Deals Promo requests within SAP GUI system and saving up to \$10,000.

Empower 3D Student Association | Director | UPRM

- Co-founder of "Maker: Zero to Hero" 12-week specialized program.
- Project management: Complete redesign of UPRM's Makerspace and Empower 3D boosting efficiency and successful member acceptance rate by more than 50%.
- Increased positive feedback from previous and new staff members with respect to the redesign.

Human Powered Vehicle Challenge | Brakes & Wheels Engineer | UPRM

- Created and improved current human powered vehicle braking system by implementing a 3:1 brake ratio reducing bulk by 50% from 2018 design.
- Supported investigation about human powered vehicles and their benefits to society.
- Research and Design in the Department of Brakes and Wheels.

Research:

NASA/UPRM | Thermal Management with Phase Change Materials in Electronic Packaging 08/2020-Present

- Research on D-Sorbitol and silver Nanoparticle PCM composite for efficient electronic thermal management.
- Investigating material properties of nano PCM composite materials for further development.
- NASA sponsored collaborative investigation.

UPRM ME Class | Creative Design (II): Universal Wheelchair Adapter

- Product development and design consisting of various parts that facilitate wheelchair transportation and commodity by over 25% of the standard market products.
- Construct a product that will allow for vertical displacement to be transferred into horizontal movement thus preventing a series of issues with the wheelchair itself.

Extracurricular Activities:

	3D Modeling and Printing Member of American Society of Mechanical Engineering (ASME) Member of Engineering PEARLS Member of Johnson & Johnson's HOLA & ICA Hurricane Maria Community Support Group (Group leader/organizer)	08/2017-Present 08/2017-Present 10/2018-Present 07/2019-01/2020 09/2017 12/2017
Awar	ds & Recognitions:	09/2017-12/2017
-	National Puerto Rican Day Parade Scholarship Harris Shark Tank Pitch Competition Winner	05/2019
-	Mechanical Engineer Honor Student	04/2019
Skills	& Certifications:	

- 3D CAD/Printing: Ultimaker Cura, Simplify 3D, Blender, Prusa Slic3r, Siemens NX, Autodesk Fusion 360
- Programs: Workbench ANSYS, Python, Microsoft Office
- Skills: Design Thinking, Case Study Analysis, Fluent Bilingual
- Certifications: Lean Yellow Belt Certified

12/2022 GPA 3.50



07/2019-01/2020

10/2018-Present

08/2018-05/2019

01/2018-05/2018

KARLA M. **DEIDA-VILLAFAÑE**



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OBJECTIVE

Seeking an internship that will develop my technical and interpersonal skills to enhance my professional career as a team-oriented engineer

EDUCATION

Bachelor of Science in Mechanical Engineering | University of Puerto Rico at Mayagüez

EXPECTED GRADUATION DATE – MAY 2022

Relevant Coursework

- Thermodynamics •
- Mechanism Design .

Statics and Dynamics

Manufacturing Processes

- Fluid Mechanics •
- Mechanics of Materials

TECHNICAL PROJECTS

Project Manager | Micromouse Team

- Reorganizing team structure while managing the team's schedule and milestones
- Collaborating on weekly workshops to strengthen member's technical skills and professional development

Vehicle Dynamics Member | Collegiate Design Series Formula SAE

- Redesigned CC-3's braking system to ensure 20% reduction in the vehicle's weight .
- Managed team schedule that included design, technical reports, presentations, manufacturing, and the testing of two • different prototypes
- Contributed on fundraising of over \$3,000 to cover manufacturing expenses of CC-2
- Dedicated 10+ weekly hours manufacturing different components of the suspension system of CC-2 such as A-Arms, Rockers, . Wheel Hubs and Uprights
- Competed in 2019 Formula SAE at Michigan International Speedway, achieving 36th place out of 120 universities

Personal Urban Mobility Access Project Competition | PACE

Improved ergonomics of final seat design by analyzing customer insight data and evaluating survey information of desired • population

Open Capstone 2016 | Mini-Capstone

Designed, prototyped, and analyzed costs of modern kid-size wheelchair

PROGRAMS

Engineering Program for Engineering Access, Retention, and LIATS Success | ePEARLS

- Selected as 1 of nearly a thousand applicants to participate in the engineering program
- Awarded scholarship by the National Science Foundation through program: "Recruiting, Retaining and Engaging Students from Economically Disadvantaging Groups into a Pathway to Successful Engineering Careers"

Recruitment, Retention and Distance Engineering Education Program | R2DEEP

- Selected to participate in the R2DEEP program, taking pre-engineering disciplines
- Completed college-level credits throughout high school such as: Engineering Graphics and Algorithm & Computer Programming

CERTIFICATIONS

Lean Six Sigma | Yellow Belt

Completed 24 hours of training course improving business acumen and analytical skills, and adopting methodologies to achieve cost reduction, increase revenue and improve overall quality

SKILLS

- Microsoft Office & Excel Advanced Knowledge .
- CAD: AutoCAD, SIEMENS NX 11 &12 & Inventor Intermediate Knowledge

Ansys - Basic Knowledge

Programming: VBA & Python – Basic Knowledge

- Algorithm and Computer Programming
- Fundamentals of Electrical Engineering •
- Material Science and Engineering

JULY 2020 - PRESENT

MAJOR GPA: 3.30

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JANUARY 2018 - MAY 2018

JANUARY 2018 - MAY 2019

SEPTEMBER 2019

OCTOBER 2018 - PRESENT

DECEMBER 2016

AUGUST 2016 - MAY 2017

Leticia M. Díaz-Torres

787-375-4640 | leticia.diaz1@upr.edu | www.linkedin.com/in/leticia-diaz-torres

OBJECTIVE

Currently seeking internship, co-op, and research opportunities in the Mechanical Engineering field.

EDUCATION

University of Puerto Rico, Mayagüez Campus. Bachelor of Science Degree in **Mechanical Engineering.**

PROFESSIONAL EXPERIENCE

Colegio Racing Engineering Formula SAE-UPRM

Member of the Body and Chassis Division

- Directed at designing and manufacturing the fastest, lightest and most cost-effective race car.
- Chosen among 90 students from all engineering and science majors to work on the Body and Chassis division.
- Research different materials in order to reduce the weight of the frame of the CC-3 model car.

Fuel Cell Research Investigation, University of Puerto Rico-Mayaguez

Undergraduate Researcher supervised by Dr. Eduardo Ortiz

- Simulation and mathematical modeling of the development and technology of fuel cells with its integration to the undergraduate electrical and chemical engineering education.
- Consolidated data and produced power curves using Python programming to validate them with existing models.

Novel System INC.

Assistant to Project Manager

- Assisted with the installation of solar photovoltaic panel systems by providing dimensional and structural analyses of roofs.
- Compiled and distributed statistical information regarding past and future projects
- Prepared annual financial reports regarding the expenses and revenue of each project and solar photovoltaic system installation.

LEADERSHIP EXPERIENCE

American Society for Mechanical Engineers (ASME) - UPRM Chapter

Human Resources Committee Chair

- Design and examine surveys, questionnaires, and forms with the purpose of learning about our member's demography and concerns; and evaluating the success and impact of our professional development events.
- Create, monitor, and record all registration and feedback forms from all the chapter's events.
- Provide a mathematical analysis of the member's academic and professional progress.

Program for Engineering Access, Retention, and LIATS Success– (PEARLS) Scholar

- Directed at helping bachelor's and master's level students in all engineering disciplines to successfully complete their study programs and transition into professional life, sponsored by the National Science Foundation.
- Chosen **among 70 students** from all engineering disciplines to go through individualized career mentoring, soft-skills training, research opportunities, internship/COOP experiences, and peer-mentor activities.

American Institute of Chemical Engineers (AICHE) – UPRM Chapter

Active member

- Coordinated activities and scientific simulations for AICHE's CHEME outreach event for high school students.
- Chosen to represent AICHE's student body at UPRM's Company Night where recruiters met with student chapters before every campus' Job Fair.
- Assisted the fundraising committee chair to raise money to cover chapter's expenses and initiatives.

<u>SKILLS</u>

- Fluent in English and Spanish
- SACHE Certificate Program: An Introduction to Managing Process Safety Hazards
- Advanced knowledge in Microsoft Platforms
- Beginner knowledge in **Python programming**
- Beginner knowledge in AutoCAD

December 2019 - Present

April 2017 - July 2019

August 2020 - Present

January 2020 - Present

August 2018 - May 2020

Expected Graduation Date: May 2023 General GPA: 3.69/4.00

August 2020-Present

Luis A. Mañán Mejías

luis.manan@upr.edu | www.linkedin.com/in/LuisAManan | (787) 944-4847

EDUCATION

University of Puerto Rico, Mayagüez Campus Bachelor of Science in Mechanical Engineering Expected Graduation: May 2023

PROFESSIONAL EXPERIENCE

Abbott Laboratories

Operation Intern, Global Engineering Services Division

- Optimized asset management process for facilities management team in Chicago, Illinois.
- Applied Lean Six Sigma tools in designing process map, digital tools, and stakeholder team.
- Designed solution to reduce backlogging of asset information and eliminate back end costs for facilities and maintenance.
- Led project team with facilities, high school STEM intern, and key stakeholders outside of facilities management group.
- Achieved 1st place in business pitch competition by analyzing financial projections for sales and revenue.

Student Design Competition

Mechanical Engineer

- Designed and developed a robot capable of building a paper tower under time, weight, and height requirements.
- Applied skills in technical drawing (Siemens NX), design process, power tools, robotics, and mechatronics.

In-situ sensor for real time detection of coliform bacteria in public water

Undergraduate Researcher under supervision of Dr. Pedro J. Resto

- Optimizing biosensor for detection of colony-forming bacteria in bodies of water in a much shorter period.
- Conducted on-field testing to identify different indicators of bacteria growth in public waters.
- Enhanced software to reduce testing time from 24 hours to 14 hours, a **41%** reduction.

LEADERSHIP EXPERIENCE

American Society of Mechanical Engineers

Chair, UPRM Student Section

- Developing strategies to digitalize professional development and add value to our membership.
- Succeeded in recruiting 50% new members of total membership and increased female participation in leadership by 12%.
- Increased attendance to events by 105% and achieved an overall satisfaction rate of 96%.
- Puerto Rico Representative, Student Regional Team Caribbean and Latin America
- Continuing effort of forming new Student Sections in Puerto Rico and making sure they stay active.
- Communicating local activities that promote ASME's mission.

Coordinator, Future Leadership Mentoring Program

- Keeping tabs on our mentors and mentees and planning professional and technical growth activities for our members.
- Accomplished an 80% retention rate of mentees in leadership positions and a 50/50 gender parity among mentees.

RealTimePC

Mentor

Volunteered in mentorship and outreach initiative targeting future industrial engineering students.

• Exposed myself to robotics laboratory, automation, and other relevant industry knowledge.

Program for Engineering Access, Retention, and LIATS Success (ePEARLS)

Scholar

- Identified as high-potential student, receiving mentoring from staff and peers, participating in professional workshops.
- Chosen among 70 students from all engineering disciplines to go through individualized career mentoring, soft-skills training, research opportunities, internship/COOP experiences, and peer-mentor activities.

Chorium, Inc.

Member

Actively participating in scheduled weekly rehearsals, workshops, and music festivals and concerts.

SKILLS

- Lean Six Sigma Yellow Belt Certification (Abbott Laboratories, Abbott Park, Ill.)
- Siemens NX and AutoCAD (beginner)
- MATLAB and C Programming Language (intermediate)
- Fluent in Spanish and English

January 2019 – Present

June 2019 – June 2020

August 2019 – May 2020 requirements.

General GPA: 3.85/4.00

June 2020 – August 2020

Major GPA: 4.00/4.00

rter period.

March 2019 – March 2020

January 2020 – May 2020

August 2018 – Present

January 2020 - Present

June 2020 – Present

MICHAEL A. HERNÁNDEZ LAMBERTY

Phone: (787) 429-5214 E-Mail: michael.hernandez15@upr.edu https://www.linkedin.com/in/michael-a-hernandez-lamberty/

Objective

To obtain **internship** or **COOP** opportunity in the area of mechanical or biomechanical engineering

Education

University of Puerto Rico, Mayagüez Campus (UPRM) **B.S.** Mechanical Engineering GPA 3.68/4.00

Research Experience

HP Inc., COOP student in Analytical Development Solution R&D Team, Aguadilla, PR Fall 2019 - Spring 2019

- Developed rheological material characterization methods for fluids in commercial printing inks
- Used statistical analysis to understand role of fluid formulation in rheological parameters for continuous improvement of ink efficiency

Michigan State University Summer Research Opportunities Program, East Lansing, MI **Summer 2019**

- Designed breast biomodel so plastic surgeons can practice breast reduction surgery
- Compared mechanical properties of various materials that could accurately represent the fat, skin and glandular tissue • of the breast

Effect of Alumina Nanoparticles on the Portevin Le-Chatelier Phenomenon in a 5182 Aluminum Spring 2019 Alloy, UPRM, Mayagüez, PR

Analyzed the mechanical properties and consequences of the Portevin Le-Chatelier effect on 5182 Aluminum alloy after being treated with Al_2O_3 nanoparticles.

Pennsylvania State University Summer Research Opportunities Program, PA

- Assessed the effects of stem cells in bone suffering from rheumatoid arthritis
- Studied the bone morphology and bone biomechanics of stem cell treatment mice tibia to determine if the treatment • was providing fully functioning bones

Pennsylvania State University Summer Research Opportunities Program, PA

- Analyzed the strain distribution on bone-implant interface of glenoid implant and humerus
- Determined the strain concentration and recommended geometric changes to implant

Publication

UE: TMS 2018 Conference Proceedings, Arizona, PX

Zhou, Y., Hernandez Lamberty, M. A., Lewis, G. S., Armstrong, A. D., & Du, J. (2018). 3D full-field mechanical • measurement of a shoulder bone under implant loading. In TMS 2018 147th Annual Meeting and Exhibition Supplemental Proceedings (pp. 287-293). (Minerals, Metals and Materials Series; Vol. Part F12).

Extracurricular Activities

Engineering in Medicine and Biology Society (EMBS) Directive

- President of EMBS from January 2018 to December 2019 •
- Research director of 21 members of pilot EMBS Prosthetic Arm project •
- Developed and provided students and community with presentations and technical workshops in the area of biomedical and biomechanical engineering

UPRM E-Pearls Program Participant

NSF funded professional development program that targets select engineering students and mentor them with the objective of helping the student successfully complete their study program and transition into professional life

Engineering Workshop, Women in Engineering - UPRM Chapter

Described to high school students the responsibilities of a mechanical engineer and provide them with a technical workshop

Skills

- Engineering Design: NX (intermediate), Inventor (basic), Solidworks (basic)
- 3D Data analysis: Avizo (intermediate), DaVis (basic)
- Statistical Analysis: IBM SPSS (basic), JMP 9.0 (intermediate)
- Programming: MATLAB (intermediate)
- Fluent in Spanish and English writing and speaking •

Fall 2018-Present

Spring 2017, 2019

Summer 2017

Summer 2018

Expected Graduation Date: Dec 2021

Spring 2018

Fall 2016 - Present

XIOMARA VARELA MORALES

Date of birth: 03/29/2000 Address: PO Box 349, Lares 00669, Puerto Rico Phone number: 787-675-7275 Email address: xiomara.varela1@upr.edu

Education R

08/2018 - 05/2022 GPA: 3.55 Mechanical Engineering | Minor in Project Management University of Puerto Rico at Mayagüez

Experience

01/2020 - PRESENT

Student mentor **Engineering Access, Retention, and LIATS** Success

-Organize peer-mentor activities to work on professional skills

-Give individualized mentoring and integrating students into the learning community

08/2020 - 12/2020

Proposal Writer and Reviewer NASA Proposal Writing and Evaluation **Experience Academy.**

-Attend meetings for preparation of proposal writing/reviewing consisting of New Technologies Reports, Quad Charts, Patents and Trademarks -Investigate the given subject and then redact a proposal that met the requirements established by NASA

08/2018 - PRESENT

Scholar

Engineering Access, Retention, and LIATS Success

-Participate in individualized career mentoring, softskills training

-Attend seminars and workshops to fulfill program requirements to enable a smooth transition into professional life

08/2018 - 02/2019

Project Manager FellowSHPE

-Gather Sponsor Information and create a proposal for sponsorships

Experience

-Develop a website for the Society of Hispanic Professional Engineers (SHPE) sponsor's -Present final work for student panel

Awards

08/2019

E-PEARLS Scholarship **National Science Foundation**

-Approved 80% or more of the credits corresponding to their year of study and a general cumulative grade point average (GPA) of 3.0/4.0 or above

08/2018

Rafael Carrión Jr. Award for Academic Excellence

Banco Popular de Puerto Rico

-Recognized for over-average scores in the advanced placement tests (PAA) and the College Board test (CBPRAL).

05/2018

"Te queremos Preparados" Award Senate of the Commonwealth of Puerto Rico

-One of the Four students from the educational region of Arecibo awarded for the performance in the College Board test

👃 Skills

Spanish

English French

~ LANGUAGES

Microsoft Office

AUTOCAD

Siemens NX

~ COMPUTER SKILLS



Yasmarie E. Torres Paneto

Mont Blanc Gardens Edif. 8 Apart. 118 Yauco, Puerto Rico 00698 | yasmarie.torres@upr.edu | 787-390-3154

Objective

To obtain an **internship** in which I can acquired knowledge in multiple areas to aid the completion of goals and overall strategy of the company, while developing technical skills and gaining an enriching experience in the engineering field. **Education**

Education		
University of Puerto Rico – Mayagüez Campus		Graduation date: Dec 2022
Bachelor of Science in <i>Mechanical Engineering</i>	Major G.P.A. 3.66/4.00	G.P.A. 3.45/4.00
Minor in Project Management		
Experience		
Abbott Laboratories – Equipment Engineer Co-op Student		Aug 2020 – Jan 2021
 Lead the implementation of Spare Parts Program improver 	ment for predictive maintenance ac	ctivities to enhance indirect labor
by 5%.		
 Lead a data integrity project to satisfy compliance risks by 	configuring passwords on manufac	turing equipment used by
operators to ensure only authorized personnel can adjust o	date and time settings.	
 Improved quality, safety and productivity of Abbott technic 	cian's area storage implementing 6	S Lean principles
Amgen Manufacturing Limited – Facilities Engineer Co-op Stude	ent	Aug 2019 – Jul 2020
 Defined and executed an alarm reduction plan improving a 	a 45% of the failures in the Building	Management System.
 Established a system of metrics of the alarms for Engineeri 	ing Senior Leadership visualization.	
 Analyzed vibration data to predict and prevent system failu 	ures as part of the reliability progra	m.
 Developed a Smartsheet tool for the manager to track the 	status and resources of the assigned	ed work orders.
 Planned and coordinated the removal of old and installation 	on of new insulation jackets as a pro	oject manager.
Presented alarm reduction improvement to the Engineerin	ng Senior Leadership.	
Eli Lilly – Project Management Coordinator		Jun 2019 – Jul 2019
 Participated in a project of cooling tower and chiller replace 	cement in the utilities building.	
• Coordinated the meetings with the stakeholders of the pro-	pject to receive update.	
 Learned the functionality of the manufacturing process. 		
• Obtained a 10 hours certification of OSHA in construction s	safety.	
Leadership		
Project Management Student Association (PMSA) – Community	y Executive	May 2019 – Present
 Founded the association to impulse new projects at the un 	niversity and promote the project m	nanagement minor.
 Developed a plan to be presented to the Project Man 	nagement Institute to be the firs	t student association chapter.
National Society of Professional Engineers (NSPE) – Chief Operation	- ations Officer	Aug 2018 – May 2019
 Led a group of 60 members to develop them through we 	orkshops and leaderships activities	with the help of 8 students that
belong to the board of directors.		
Extracurricular Activities		
Program for Engineering Access, Retention, and LIATS Success	(PEARLS) – Participant	Oct 2018 - Present
 Recruited to receive professional guidance, training in social 	al skills and research opportunities	to complete our baccalaureate on
time and successfully.		
Amgen Biotalent – Participant		Aug 2019 – Aug 2019
 Participated in a 2 day workshop related to aseptic conduct 	cts and industrial production of reco	ombinant proteins.
Honors		
L3Harris ECOS Scholarship		Apr 2021
 NLHA Scholarship 2018 		July 2018
 Sartorius Stedim Biotech Scholarship 2016 		July 2016

Technical/ Non-Technical Skills

- Teamwork Skills
- Lean Six Sigma Yellow Belt
- Technical Writing & Presentations

- Bilingual Spanish and English (Proficient Level)
- Willing to travel
- Good Communication Skills

•Software: Microsoft Office, C++, NX, Maximo, MatLab, Smartsheet (Beginner Levels)

References are available upon request

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Software Engineering

Nama	Availability	
Name	Spring	Summer
Abdiel Cortes Cortes	\checkmark	\checkmark
 Chaliana Rolón Ojeda 	\checkmark	
Christian Alapont Hernández	\checkmark	
Orlando Marrero Soto	\checkmark	\checkmark
Steven A. Ramírez	\checkmark	
Valerie Reyes Ortiz		
Veronica Bernier Ortiz	\checkmark	\checkmark
Yeran L. Concepción		
Concepcion	V	V

ABDIEL CORTÉS

Email: abdiel.cortes@upr.edu | Phone: (787) 422-7100 | Portfolio: abdielcortes.wixsite.com/portfolio | GitHub: AbdielCortes

Objective

Obtain an Internship/COOP/REU that allows me further to enhance my knowledge and skills in Software Engineering field (or its related fields).

Education			
University of Puerto Rico – Mayagüez Campus (UPRM) Bachelor of Science in Software Engineering Third Year Undergraduate Student Relevant Courses: Data Structures, Discrete Math for CS, Circuit Analysis 1, Program		Expected Graduation Date: December 2022 Cumulative GPA: 3.60/4.00 mming Languages, Computer Architecture 1	
Skills			
 Java programming (advanced) Python programming (intermediate) C ++ programming (intermediate) C programming (basic) 	- Objective C (iOS - intermediate) - React JS (basic) - Arduino & Raspberry PI (basic) - AutoCAD (intermediate)	- Fusion 360 (basic) - Siemens NX (basic) - Fully fluent in English and Spanish (written and oral)	
Work Experience & Extracurricul	ars		
ADVERSARIAL TECHNIQUES FOR FA	ACIAL RECOGNITION MODELS	UPRM – August 2020 – Present	
Learned about common machine learningResearched how One Pixel Attacks can dis	models and how to best apply them rupt image recognition models		
ADVANCED PROGRAMMING LAB Instructor's Assistant (Java and C++)		UPRM – January 2020 – December 2020	
Helped students understand core object-orAided students with understanding their r	priented programming problems with Java and on nistakes and guided them to the solution	C++	
FACEBOOK UNIVERSITY INTERNSH iOS Intern (Objective C)	IP	Remote – June 2020 – August 2020	
 Participated in a three-week Objective C in Used the Parse iOS SDK to create a social 	OS mobile development course by Code Path media app that allows artists to share and sell t	heir art	
ASME STUDENT DESIGN COMPETIT Computer Department Programmer (C++)	TION PROJECT	UPRM – August 2018 – May 2020	
 Worked on programming the robot's serv Researched for microcontrollers, sensors, Ranked 16 out of 56 competing universitie 	omotors and wireless communication using Arc and servos that meet the robot's design and ne as in ASME's E-Fest North 2019	luino (C++) 2eds	
PUERTO RICO ROBOTICS ASSOCIAT Programmer (C++)	TION VEX U TEAM	UPRM – January 2020 – March 2020	
 Programmed robots using Vex Code (C++) Awarded the Design Award, Robot Skills A 	for autonomous and driver control ward and qualified for the Vex World Champion	nship 2020	
UPRM OFFICE OF TRANSPORTATIO Work and Study Administrative Assistant	N	UPRM – September 2018 – May 2019	

• Processed, managed, and organized sensitive documents and data to aid in financial and statistics analysis

• Filed paperwork and important documents related to the use of the university's vehicles

Honors & Awards

Engineering PEARLS Honors Program October 2018 - Present - Selected as 1 of ~2000 applicants to be part of the "Program for Engineering Access, Retention, and LIATS Success" Lockheed Martin Top 100 Scholars April 2019

- Selected as 1 of 20 first year engineering students to receive a scholarship for my academic and extracurricular performance

Chaliana Rolón Ojeda

chaliana.rolon@upr.edu| LinkedIn: chaliana-rolon-ojeda | GitHub: anarolon | Wixsite: chalianarolon.wixsite.com/chalianarolon

EDUCATION

University of Puerto Rico – Mayagüez Campus Bachelor's in Software Engineering

Expected Graduation Date: May 2022 G.P.A.: 3.59/4.00

Mayagüez, P.R.

Añasco, P.R.

Jan 2019 – Aug 2019

Mayagüez, P.R.

Aug 2017-Dec 2018

Jan 2020 - Present

EXPERIENCE

UPRM RoboBoat Team, University of Puerto Rico at Mayagüez

- Programmer
- Created C# script to format task information into JSON message (Object coordinates, etc.), and script that parses action messages in JSON format from the boat's AI to Unity.
- . Created scaled competition task objects in Unity for competition simulation.
- Created user interface to establish bridge between Robot Operative System and Unity Game Engine.
- Tools: Unity Real Time Development Platform, C#

General Electric Renewable Energy

Programmer

- Contributed in the development of an inventory reduction desktop application that aims to reduce inventory costs by \$500k
- Developed an Issue Tracker desktop application to aid Human Resources manage conflicts between employees
- Developed Graphical User Interfaces using Java FX
- . Created and managed databases using MySQL and Microsoft's SQL Server
- Tools: Eclipse IDE, Java (OOP), JavaFX, SQL, Scene Builder (with FXML, and CSS files), Apache POI API, Java Excel API
- Educational Nanotechnology Video Game, University of Puerto Rico at Mayagüez Programmer
- Contributed in the development of an educational video game aimed for middle and high school students, to teach them concepts of nanotechnology.
- Designed, implemented, and debugged aspects corresponding to the interactive menu and video game levels.
- Tools: Unity Real Time Development Platform, C#, Visual Studio

Facebook University for Engineers Internship

Mobile Application Developer

- Participated in a three-week training of iOS mobile development by CodePath. .
- Worked in the development of an iOS mobile application called *Shelfie* that lets its users trade, sell, or gift, books.
- Developed, using the Facebook SDK, the login method, the User model and sharing through Messenger and Facebook.
- Tools: XCode IDE, Objective C, Facebook SDK

PUBLICATIONS

Co-author of a peer-reviewed paper, titled Educational Nanotechnology Video Game to Inspire Middle and High School Students to Pursue STEM Related Professional Careers, at the IEEE Frontiers in Education 2018 Conference

EXTRACURRICULAR ACTIVITIES

Program for Engineering Access, Retention, and LIATS Success (EPearls)

Participating in career mentoring, soft-skills training, internship/COOP/research experiences, and peer-mentor activities. Computing Alliance of Hispanic-Serving Institutions (CAHSI) May 2018 - Present

Participated in a series of intensive workshops to develop skills in research and project management, creativity in research, leadership and emotional intelligence, and the recognition of identity and culture, and others.

ACCOMPLISHMENTS

- . Grace Hopper Celebration 2020 Scholarship Recipient
- **Engineering EPearls Scholarship Recipient**
- . Honor roll student of the Computer Science and Engineering Department

SKILLS

• Knowledge of: Unity Game Engine, Eclipse IDE, Visual Studio, XCode IDE, MySQL, Microsoft Word

• Programming Languages: Java, C#, Objective-C, Python

• Bilingual: Spanish/English

Menlo Park, CA

Spring 2020 Fall 2018 – Present Spring 2018 - Present

June 2018 – Aug 2018

Oct 2018 – Present

CHRISTIAN A. ALAPONT HERNÁNDEZ.

Phone: (787)-940-6621 | christian.alapont@upr.edu | christian.alpnt@gmail.com | Linkedin: Christian Alapont

OBJECTIVE

Highly motivated Computer Science and Engineering student seeking for a Software Engineering internship to improve programming skills, critical thinking and professionalism.

EDUCATION

BS	University of Puerto Rico Mayagüez Campus, Computer Science and Engineering	GPA: 3.73 August 2017 – May 2022			
Ex	PERIENCE	114gust 2017 - 114y 2022			
Soft	vare Development Engineer Zillow	May 2020 – August 2020			
•	Developed a questionnaire API using Java, along with the database schema with a star using tools such as Springboot, Liquibase, MySQL, JUnit and HQL. Developed a validation system for real time incoming messages in Java. Modified endpoints to show information that would eventually show up in the app. Us	ting implementation system ed tools and frameworks such as			
Cvb	ersecurity Research Lead University of Puerto Rico, Mayagüez Campus	August 2019 – Present			
	 Leader: Since January 2020. Identify and plan tasks for members to continue research progress. Promote a challenging, yet friendly environment for members and shadows. 				
•	• Familiarizing myself with network terms of Cisco CCNA, Linux, Machine Learning and CompTIA Security+.				

Concentrating in Penetration Testing to participate as a member in competitions. •

Rumarino | University of Puerto Rico, Mayagüez Campus

- Work on debugging, mission logic, controller, vision, documentation and simplifying the level of understanding needed to use submarine.
- Gain insight on Linux terminal use, Python, ROS, multi-disciplinary team, physical devices, modular coding and object oriented programming.
- Went to Robosub 2019 competition in San Diego, California and placed 15th of 53 teams.

ORGANIZATIONS & AWARDS

University Honor Roll	2017-2020					
CAHSI	2019 – Present					
• Participate in activities to improve technical skills and soft skills.						
RUM Animal Rescue	September 2019 - Present					
• Give temporary home and resources to pets without owners until a new permanent owner is found.						
Tapia Conference	September 2019					
• Received a travel sponsor to participate in the Tapia Conference 2019.						
Boeing Scholarship	February 2019					
• Recognized for academic excellence and one of the 36 students chosen to receive scholarship.						
ePearls Program for Engineering Access, Retention, and LIATS Success	October 2018 – Present					
• Receive individualized mentorship, scholarship and workshops to help establish a career path.						

SKILLS

- Python(intermediate), Java(intermediate), Javascript(intermediate) Languages: Spanish(native), English(native) Beginner in ROS framework
- Fast and independent learner.

Linux

May 2019 - May 2020

Orlando F. Marrero-Soto

787-413-1722 | orlandosoto2000@gmail.com

orlando.marrero6@upr.edu | in Orlando Marrero Soto | () OrlandoFabian

Education

Bachelor of Science in Software Engineering

University of Puerto Rico: Mayaguez Campus

Google Tech Exchange Scholar

Chosen as one of 115 students to participate in Google's "Tech Exchange," a program designed to give access to cutting edge industry courses, increasing preparedness for Software Engineering, Product management & UX internships/careers.

Relevant Courses: Intro to Programming, Fundamentals of Computing, Advanced Programming, Data Structures, Intro to Software Engineering, Applied Data Structures & Algorithms (Google), Human Computer Interaction/UX (Google), Software Engineering Requirements (In Progress).

Programming languages: Java (Beginner), Python (Beginner), SQL Server (Beginner), HTML (Beginner), CSS (Beginner), JavaScript (Beginner), VBA (Beginner).

Skills: UX Design and UX Development, Web Application development with React.js, Leadership, Self-disciplined, Ability to Work Under Pressure, Teamwork and Time Management.

Experience

L3Harris Summer Internship

Software Engineer Intern

- Automated a process to identify potential errors of over 200 employees' in their time-card entries using VBA in Excel.
- Developed a **macro** in **Excel** using **VBA** to create statistics for over **40** managers about their employees' timecard entries.

Medical Card System (MCS) CO-OP

Programmer Analyst

January 2020 - June 2020

July 2020 - August 2020

- Developed a Web Application using ASP.NET for over 1500 employees to manage their accounts for other applications.
- Automated 3 internal processes, that were run manually, using SQL Server and SSIS in Visual Studio.

Projects

Tech.Add()

Co-Founder / Teacher

January 2021 – Present

Teaching python and problem-solving skills to high school students from underrepresented minorities with the goal of increasing the number of students and retain those that apply to a Computer Science mayor within these communities. Munera, Google Software Product Spring

Participant

January 2021 – May 2021

- Collaborated with a team of peers to design and implement a web application using Java, JavaScript, HTML, and CSS over the course of 10 weeks, leveraging various Google Cloud Platform APIs, including App Engine and Datastore.
- Built a web application in which users can upload donations to the web server and other users can pick up those donations.

Educational Nanotechnology Video Game Research

Undergraduate Researcher / Leader / Prof. Nayda G. Santiago

- Developed an Augmented Reality video game using Unity Game Engine and C# to motivate middle school students to pursue a career in a STEAM related field.
- Impacted over 50 students from the age of 9 to 15.

Programs

Engineering Pearls

• Improving my technical and soft skills with the goal of completing my studies and to transition into my professional life.

Accenture Student Leadership Program – Pride Track

• Developing my leadership skills by taking multiple workshops giving by Accenture's development team.

Leadership

Computer Alliance for Hispanics-Serving Institution (CAHSI) – President

 Coordinating meetings, activities, workshops and programs for all the active members. Allyship (CAHSI) – Mentor January 2021 – Present • Mentoring a first-year software engineer student to achieve their professional career goals by giving them the necessary tools.

Engineering Pearls – Mentor

January 2021 – Present • Mentoring 4 students of the E-Pearls program for them to continue their professional development in their respective areas. **Team Made - Guiding Student** May 2019 – Present

• Providing support for over **300** first-year students about the **University of Puerto Rico Mayagüez** campus and the college life. Association for Computing Machinery – Computer Science Engineer (ACM-CSE) - Spokesperson August 2019 – December 2019

- Negotiated sponsorship from companies by giving them promotion within the campus and the members of the ACM.
- Tutored over 20 members of the ACM in Java and Python.

Awards and Accomplishments

- Received 1st place in the Hack-A-Virus hackathon from Codegym PR in April 2020.
- Received 1st place in the Intercollegiate Programming Competition National Division in 2019.
- Received 1st place in the Intercollegiate Programming Competition Local Division in 2019.
- Received a Scholarship from **Evertec** in August 2018 for being a leader in the community.

Expected Graduation Date: December 2023 GPA: 3.61 Major GPA: 3.65 January 2021- May 2021



August 2018 – Present

January 2021 - Present

January 2021 - May 2021

steven.ramirez3@upr.edu (787) 459-4845 linkedin.com/in/steven6798 stevenra	amirez3.wixsite.com/portfolio
EDUCATION	
University of Puerto Rico, Mayaguez Campus (UPRM), Mayaguez, Puerto Rico	Expected: May 2022
	GFA 3.33/4.00
Department of Computer Science and Engineering Lehigh University	Pomoto
 Undergraduate Researcher investigating compiler techniques for advanced synchronization on multi-core CPUs 	June 2021-Present
Intelligent and Scalable Systems REU, Lehigh University	Remote
Undergraduate Researcher	May 2020-August 2020
 Designed a new synchronization algorithm leveraging Bloom filters and Intel Transactional Synchro Developed static transformations in LLVM to reduce instrumentation overhead Achieved >7% improvement on common transactional memory workloads 	nization Extensions
Student Design Competition (SDC), UPRM	Mayaguez, Puerto Rico
Computer and Electrical Departments Leader	August 2019-May 2020
 Designed, developed and tested software and hardware using Arduino and OrCAD of a paper-towe Lod 5 members from two departments 	er-builder robot
 Prepared and presented a research poster at the university 	
CTO Cloud Architecture and Technology Strategy, Bank of America	Charlotte North Carolina
Cloud and Advanced Technologies Analyst	June 2019-August 2019
Completed End-to-End Tools Governance process for 100 use of Non-Core Technology requests	
Spotted and fixed 128 errors in 2 systems of records	
Prevented audit fines of approximately \$640,000	
Student Design Competition (SDC), UPRM	Mayaguez, Puerto Rico
 Developed software and hardware using Arduino and OrCAD of an object transporter robot 	August 2018-May 2019
 Presented a research poster at the university 	
Achieved 16th place out of 56 teams in the 2019 American Society of Mechanical Engineers Engine	ering-Fest North SDC
ORGANIZATIONS	
Program for Engineering Access, Retention, and LIATS Success (ePearls), UPRM	Mayaguez, Puerto Ricc
PLTL Leader	March 2019-Presen
 Mentored 11 undergraduate students of the ePearls program using Peer-Led Team Learning (PLTL) Delivered portfolio, resume and PLTL workshops for 20 students 	
Trained 11 new PLTL leaders	
Program for Engineering Access, Retention, and LIATS Success (ePearls), UPRM	Mavaguez, Puerto Rico
PLTL Leader's Lead	August 2019-December 2020
Participated in the coordination of the ePearls PLTL leaders project	
Helped manage 18 PLTL leaders Organized partfolio, resume and PLTL workshops	
CONFEDENCES	
CONTERCED	A -4-4
 Presented the poster "Hybrid Transactional Memory with Just Enough Metadata" in the Student R 	October 2020 esearch Competition (SRC)
AWARDS	

STEVEN A DAMIDEZ DOCA

ePearls Scholarship	August 2020
HSF 2020-2021 Scholar	May 2020
HSF 2019-2020 Scholar	May 2019

SKILLS

Programming Languages: Java, C, C++, Python, Scala, Arduino
Parallel Programming: PThreads, CUDA, Intel RTM, OpenMP, MPI
Web Development: HTML, CSS, Javascript, React, React Bootstrap, Flask, PostgreSQL, AWS, Heroku, Docker
Operating Systems: Windows, Ubuntu, CentOS
Languages: Native Spanish, full professional English

Valerie E. Reyes Ortiz Coamo, P.R 00769 | (787) 930-4983 | valerie.reyes5@upr.edu | eunice418ve.wixsite.com/website

Educa	ation							
University of Puerto Rico, Mayaguez Campus – B.S. in Software Engineering GPA: 3.4								
Relev Softwa	Graduation Date: December 2021 Relevant Coursework: Data Structures, Computer Architecture, Software Engineering Requirements, Software Engineering Design, Operating Systems.							
Expe	r ience - github.com/valeriereyes5							
Mento	or UPRM SummerHacks – Puerto Rico			(07/2020)				
•	Managed 60 high school students as they followe	ed the	"MobileCSP"					
•	summer camp. Mentored the students as they developed their o	wn ai	ons using Ann					
-	Inventor.		ops asing tipp					
Intern	ı Lockheed Martin Corporation RMS – Florid	la		(06/2019) - (08/2019)				
•	Created a VBA script that takes data from an exce	el she	et and formats it					
	to another.							
•	I raveled to various states to recollect information	n.						
•	Worked with and was familiarized with agile and	scrun	n methodologies					
	under the systems engineering program.							
Instru	ictor UPRM HacksKids - Puerto Rico			(04/2019)				
•	Managed, recruited, and taught a group of 7 mer	ntors t	to help during the					
•	programming workshop.	chool	students to					
•	learn programming with Scratch.	CHOO	students to					
•	Helped manage and prepare the activity.							
Proje	cts			(2018)-(2020)				
•	Tic-Tac-Toe – Developed a Tic-Tac-Toe Game fror	n scra	itch using Unity,					
	Visual Studio, and C#. It contained all the basic fe	ature	S.					
•	and C# .	g Unit	y, visual studio,					
Skills	· · · · · · · · · · · · · · · · · · ·							
•	lava	•	Basic Knowledge	: VBA, HTML, CSS				
•	Python	•	Languages: Englis	sh and Spanish				
Activ	ities. Awards & Societies							
•	Member of the Institute of Electrical and			(08/2018)-Present				
	Electronics Engineers							
٠	WebMaster of the IEEE- Circuits and			(01/2020)-Present				
•	Dean's List			(08/2018) - (05/2020)				
•	GMIS HEENAC Scholarship as a Lockheed							
	Martin Scholar			(10/2018)				
•	Participant of the Program for Engineering			(00/2010) Droce				
	Access, Retention, and LIATS Success			(U8/2018J-Present				

Verónica Aurelia Bernier-Ortiz

Salinas, Puerto Rico | (787) 298-3161 | <u>veronica.bernier@upr.edu</u> <u>linkedin.com/in/veronicabernier/</u> github.com/veronicabernier

EDUCATION

University of Puerto Rico, Mayagüez Campus, School of Engineering (Aug. 2018-May 2023)

Bachelor of Science in Software Engineering

Expected Graduation: May 2023 Cumulative GPA: **3.96/4.00**

Other relevant Courses

Foundations of Computing, Advanced Programming, Data Structures, Programming Languages, Problem Solving, Intro to Software Engineering, and Computer Architecture

EXPERIENCE

Google Tech Exchange Scholar (Jan. 2021-present)

- Chosen as one of 115 students to participate in Google's "Tech Exchange," a program designed to give access to cutting edge industry courses, increasing preparedness for Software Engineering, Product management & UX internships/careers.
- Taking applied computer science courses (including Applied Data Structures & Algorithms and Human Computer Interaction/UX) taught by Google engineers and experts in the field.

AON Robotics Team - Augmented Reality App (Nov. 2020-present)

- Worked with a teammate to develop an application under 2 months in Unity for users to view the team's robots through their phone camera with AR.
- Worked on 3 features including robot animations.
- Used AR Core to identify planes where a robot can be placed on the AR view.
- Wrote code in **C#** to allow users to select which robot they want to place.

The Program for Engineering Access, Retention, and LIATS Success (PEARLS) (Oct. 2018-present)

- Through workshops and mentoring, I have developed business, time, and budget management skills, soft skills, and more.
- Courses Taken: Intro to Engineering and An Experience with Engineering Learning Communities

IEEE Computer Society (Sept. 2018-present)

• Design graphic and video promotions for the society's events using Adobe Photoshop and LumaFusion.

PROJECTS

Of Course! (Jan. 2021-present)

- Working on a web application for UPR students to track their course work.
- Using agile development to implement the domain entities and functions.
- Developing the frontend part of the pages with **JavaScript** and **ReactJS**.

Unknown Planet Defender (Aug. 2020)

- Developed a Rails Shooter game for web in Unity using C#.
- Implemented scripts, particle and sound effects, object tags, and game controls.
- Became acquainted with Unity's Timeline, shaping the terrain game object, and camera movement.

Alternate Voting Method (Feb. 2020)

• Created a program for processing ballots and determining the winner on an election system that allows the voters to choose which candidates they want to vote for by rank using **Java**.

<u>SKILLS</u>

Programming: Java, Python, C#, and JavaScript Languages: English and Spanish GitHub, Unity, ReactJS, Lens Studio, Scratch, IBM Cloud, Excel, Adobe Photoshop

yeran.concepcion@upr.edu yeranluis99@gmail.com

linkedin.com/in/yeran-l/ (939) 454-1211

General GPA: 3.39/4.0

April 2019 / Present

June 2019

January 2019

August 2019

March 2018

March 2018

December 2017

January 2019 / Present

Expected Graduation Date: May 2023

OBJECTIVES:

Seeking an Internship where I may use my software engineering background and interpersonal skills to further the company's growth.

Yeran L. Concepción

EDUCATION:

University of Puerto Rico, Mayagüez, PR Bachelor's in Computer Science and Engineering

RELEVANT COURSES:

- **Data Structures**
- Leadership Seminar 3
- Human Perspective in AI

EXPERIENCE:

ACM-CSE UPRM | Social Media Manager

- Managed the social media platforms of the association, by scheduling and posting weekly.
- Coordinated and promoted the activities offered by the association, using Canva as a tool.
- Maintain communications between members and directive personnel by managing association group chats and mails. •

Developers

HTML, CSS, and Javascript for Web

UPRM Hacks! Camp | Instructor & Office Assistant

- Helped & mentored students to improve their coding abilities by using the App inventor & Scratch platform.
- Worked hand to hand with the department counselor organizing the given activities.
- Mentored students in Computer Science and Software Engineering by using my personal experiences.

CRE UPRM | Library Assistant January 2019 / May 2019

- Promoted the library's vast services to visitors through active communication. •
 - Helped students by teaching them computer skills to manage Office 365 programs.

Global Game Jam At UPRM | Assistant

- Keep the structure of the contest by monitoring the participants.
- Organized and scheduled the event's following the Global Game Jam directions.

PROJECTS:

RobotX Competition | Programmer intern

- Helped with the integration of a virtual environment while using new technologies as linux.
- Collaborated with other team members in the strategic design to complete the tasks of the competition through BitBucket.

AWARDS & Leadership:

Program for Engineering Access Retention, and LIATS Success (PEARLS)

Awarded with a five years scholarship given upon my academic achievement.

Ricky Martin Foundation | Member

Developed iniciatives to deal with the human trafficking and educate comunities about its existence.

American Red Cross | Volunteer Member

Volunteered to help communities in case of emergencies, by completing the first aid workshops given by the . organization.

United Nations Foundation | Member

Designed a plan oriented by the Sustainable development Goals of the ONU, and exposed them at the 2017 organization symposium.

SKILLS:

- **Fully Bilingual**
- Advanced in Python
- Advanced in Java

- Proficient HTML & Java Script
- Proficient in C++
- I inux

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Surveying & Topography

Name	Availability	
	Spring	Summer
Amarilys Valentín Suárez	\checkmark	\checkmark

AMARILYS VALENTÍN SUÁREZ

787-675-3912 | amarilys.valentin1@gmail.com Urb. Jagüey Chiquito Road 411 Kilometre 5.7 Aguada, Puerto Rico, 00602 Porfolio: https://amarilysvalentin1.wixsite.com/misitioamarilys LinkedIn: http://linkedin.com/in/amarilys-valentín-suárez

EDUCATION

UNIVERSITY OF PUERTO RICO AT MAYAGÜEZ CAMPUS

Bachelor's degree in Survey and Topography Expected Graduation Date: May 2024

Relevant Courses: Engineering Graphics

ORGANIZATION

ENGINEERING PEARLS UPRM

Leaderships, Internships, COOP and extracurricular activities.

• Attended workshops about Developing a Professional Electronic Portfolios, Resume Preparation and Opportunities for COOP & Internships, Manage the Budget, Plagiarism and Academic Honesty, Undergraduate Research, Planning Your Career Path and IDP.

RESEARCH

FOOD PARTICLE MANUFACTURING

We will study de food, know a its properties and how we can convert it into particulate matter.

VEGETABLE AND FRUIT DRYING OR ROASTING

Study the coffee roasting process under continuous mode to understand the phenomena and factors to develop and optimize a new continuous process technology.

HYDROPHOBICITY EFFECTS WITH BLADE GEOMETRY EVALUATION ON GRANULE GROWTH AUGUST 2019

Evaluated the effect of formulation hydrophobicity on the growth behavior of a high shear granulation using different angle blades at different rpms with the purpose of seeing how affects the different variables as it is granulated.

EXPERIENCE

SCHOOL VISITS TO CAMPUS

Impacted high school students about chemical engineering in the pharmaceutical industries.

• Learn about the manufacturing process of a tablet.

PHARMACEUTICAL ENGINEERING SUMMER CAMP

Mentored and impacted high school students about chemical engineering in the pharmaceutical industries.

- Organized the materials and instruments that students use during the week
- Presented the Drying and Near Infrared station
- Watched for the welfare of each student
- Organized extracurricular activities

AUGUST 2018 - PRESENT

AUGUST 2020- PRESENT

AUGUST 2018 - PRESENT

JANUARY 2020

AUGUST 2019 ries.

JULY 2019

SKILLS

Languages: Spanish and English Coding: Python Programs: AutoCAD Machinery: Bench granulator, Sieving, Insitec Analysis, Mixed, Drying and Near Infrared Spectroscopy, Continuous Dryer