



# RESUME BOOK

September 2019



# Foreword

The Program for Engineering Access, Retention, and LIATS Success (PEARLS) is a college-wide initiative sponsored by the National Science Foundation (NSF) and enabled through the project “*Recruiting, Retaining, and Engaging Academically Talented Students from Economically Disadvantaged Groups into a Pathway to Successful Engineering Careers*“. PEARLS is 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.

ePEARLS complements students’ education with individualized career mentoring, soft-skills training, research opportunities, internship/COOP experiences and opportunities, and peer-mentor activities; integrated in a learning community where students, faculty, and university staff work together for a common goal: student success.

During the last year, nearly one hundred PEARLS students from all engineering disciplines at UPRM have been receiving training in research chores, improving communications skills, developing their ability to work in teams, and mentored to make the correct career choices to become successful engineers.

Today we present this resume book, portraying a sample of the quality students who make PEARLS. These students have expressed their interest in expanding their formation as future engineers through internships and COOP experiences in industry either in spring or summer 2020. All of them are either in their third or fourth year of study, have highly competitive grade point averages, and have accumulated extracurricular experiences through special projects, research activities, and/or community service, forming a select group of proactive individuals.

It is our desire, that in you receiving this document, it not only helps in the recruiting efforts of your organization, but also creates life-changing opportunities for our talented students and serves as mechanism to bridge PEARLS and your organization.

Sincerely,

Dr. Manuel Jimenez  
ECE Professor and  
Engineering PEARLS Director

# Contents

Chemical Engineering	4
Civil Engineering	10
Computer Engineering	14
Computer Science & Engineering	19
Electrical Engineering	24
Industrial Engineering	30
Mechanical Engineering	39
Software Engineering	44
Surveying & Topography	50

# Chemical Engineering

Name	Availability	
	Spring	Summer
• Daniela J. Rivera Cedeño		✓
• Diamarys Salomé Rivera	✓	✓
• Gerardo Mena		✓
• Jesús E. Meléndez Gil		✓
• Tamara Soto	✓	✓

# DANIELA J RIVERA CEDEÑO

PO Box 1266 Utuado, Puerto Rico 00641 · (787)-329-4874

· [daniela.rivera4@upr.edu](mailto:daniela.rivera4@upr.edu) ·

**PROFILE:** Undergraduate student eager to expand her knowledge in the chemical engineering field. Handworker with good teamwork and communication skills, that is able to manage various situations with precision and accuracy. Looking for new experiences that can help develop my abilities as a chemical engineer.

## EDUCATION

2017- PRESENT

**BACHELORS DEGREE**, UNIVERSITY OF PUERTO RICO - MAYAGUEZ

Major: Chemical Engineering

GPA: 3.30/4.00

## EXPERIENCE

2019 – PRESENT

**TREASURER**, THE NATIONAL SOCIETY OF COLLEGIATE SCHOLARS (NSCS), UPRM CHAPTER

Keeping records of the incomings and outgoings of the NSCS Chapters funds.

## ORGANIZATIONS

2019- PRESENT

**MEMBER**, THE NATIONAL SOCIETY OF COLLEGIATE SCHOLARS (NSCS)

Active member of the organization that recognizes exceptional students in the academic field.

2018- PRESENT

**MEMBER**, PROGRAM FOR ENGINEERING ACCESS, RETENTION, AND LIATS SUCCESS (PEARLS)

2018- PRESENT

**MEMBER**, AMERICAN CHEMICAL ASSOCIATION (ACS)

## SKILLS

- Proficient in Microsoft Word, Power Point and Excel
- Good Communication and Time Management
- Fluent in both Spanish and English
- Capable of working under pressure
- Leadership skills

## AWARDS/ COMMUNITY SERVICE

- Receiver of the Program for Engineering Access, Retention, and LIAT Success (PEARLS) Scholarship 2018-present
- Volunteer Interpreter for the Disaster Medical Assistance Teams during Hurricane Maria 2017

# Diamarys Salomé Rivera

(939) 222-9258 | diamarys.salome@upr.edu | Urb. Villas Rio Canas #991 Luis T. Nadal Ponce, PR. 00728

## OBJECTIVE

---

To obtain an internship, research or coop experience related to Chemical Engineering career.

## EDUCATION

---

University of Puerto Rico at Mayagüez,  
Bachelor of Science in **Chemical Engineering**

Expected Graduation: May 2021  
GPA: 3.50 /4.00

## RESEARCH EXPERIENCE

---

- **Summer Research Opportunity Program at Purdue University** **June-July 2019**  
*Drug resistance in tuberculosis granulomas – Mentor: Dr. Elsje Pienaar*
  - Quantified the contribution of multiple independent granulomas and variability between granulomas to the overall probability of having pre-existing resistant bacteria before treatment
- **Optimization Driven Biological Analysis** **February 2018-May 2019**  
*Identification of differentially expressed genes simultaneously across Herpes Simplex, Parkinson's Disease and Alzheimer's Disease - Mentor: Prof. Mauricio Cabrera*
  - Simultaneously analyzed conditions to detect genetic commonalities and differences using a novel approach based on mathematical optimization.
  - **Poster Presenter in 2018 SACNAS "The National Diversity in STEM Conference"**
- **Perlan Project** **January 2016-August 2017**  
*"Design of a CubeSat with a Removable Specimen Collector to Investigate the Potential of Allergenic Fungal Spores to Reach into the Stratosphere"*
  - Worked with the assembly, programming, sampling, and design of a miniaturized satellite.

## PROFESSIONAL EXPERIENCE

---

- **2018 HEENAC Conference** **October 2018**
  - Winner of Lockheed Martin Challenge
- **Dance Instructor at Summer Camp in UPRM** **June 2018**
  - Instruct dance students ages 4 through 17 in hip hop techniques

## LEADERSHIP EXPERIENCE

---

- **American Society for Engineering Education** **September 2018**
  - Community Service - International Coastal Clean Up Day and volunteer job in the home shelter for children in Mayaguez
  - Outreach committee - Orientation to high school students of the engineering field
- **Chemical Engineering Camp** **March 2017**
  - Demonstrations to high school students of different concepts and experiments related to the Chemical Engineering career with the Association of Chemical Engineering

## SKILLS

---

- Programming skills (Matlab and signal processing)
- Proficient working with Microsoft Office (Word, Power Point, Excel)
- Analytical and critical thinker
- Strong team work and organizational skills

# Gerardo J. J. Mena Fernández

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

## Education:

### UNIVERSITY OF PUERTO RICO, MAYAGÜEZ (UPRM)

- Bachelor's degree in Chemical Engineering
- 3<sup>rd</sup> year (113/172crd)

Expected Graduation: **Dec. 2021**  
GPA: **3.61**/4.0 | Major GPA **4.0**/4.0

### Relevant Courses:

- Thermodynamics I\*
- Momentum Transfer Operations\*
- Analytical/Organic Chemistry
- Computer Programming
- Differential Equations
- \* Currently Enrolled

## Projects/Research Experience:

### SOLID OXYDE FUEL CELL COMBINED SYSTEM-RESEARCH (UPRM) 08/2019-PRESENT

- Currently developing a SOFC hybrid system to improve overall efficiency of the system regardless of the high operating temperatures of the cell.

### CHARACTERIZATION OF PROBIOTICS BY S.E.R.S-RESEARCH (UPRM) 08/2019-PRESENT

- Analyze various bacterial components to obtain a distinctive spectrum for identification in complex samples.
- Create a calibration curve to quantify the probiotic concentration in aqueous solutions and dairy products.

### PRASEODYMIUM NICKLATE THIN-FILM FOR OXYGEN SENSOR-RESEARCH (ULL) 05/2019-07/2019

- Implemented PNO as a sensor to be used in combustion reactions and fuel cells and, assess its response time, sensitivity and dependence on oxygen when exposed to different flow rates, temperatures and concentrations
- Modified the sensor to improve the performance and increased sensitivity by **25%** compared to previous ones.

### IDENTIFICATION OF EPITHELIAL TISSUE BY RAMAN-RESEARCH (UPRM) 01/2019-05/2019

- Studied the cellular membrane components of the cell to obtain a characteristic spectrum for epithelial tissue.
- Optimized the spectrum when using micro and nanostructured for fast, efficient and non-destructive analysis.

### FUEL CELLS-PHOTOVOLTAIC HYBRID MICROGRID-RESEARCH (UPRM) 10/2018-05/2019

- Phase 1: Simulate the PEM fuel cell behavior to regulate hydrogen input according to the energy consumption.
- Puerto Rico Santander Bank, **2<sup>nd</sup>** place winner at the *V Edition of Entrepreneurship Enhancement Award*.

## Leadership Experience:

### PRESIDENT – BOY SCOUTS CREW 821 01/2019-PRESENT

- Oversee the development of **25** teens from the unit as leaders and help them gain scout skills and techniques.
- Organized and helped on camps, beach cleanings and other community service activities for over **50** scouts.

### SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS (SHPE) -UPRM 06/2017-PRESENT

- **Academic Excellence Director**
  - Develop opportunities for the students to obtain undergraduate researches and, organize workshops and local tours to provide the students with an insight into the everyday environment as an engineer.
  - Coordinator of the 2020 *Puerto Rico Regional Science Bowl* for middle and high school students.

## Extracurricular Activities:

### PROGRAM FOR ENGINEERING ACCESS,RETENTION, AND LIATS SUCCESS (PEARLS)-UPRM 11/2018-PRESENT

- First class enrolled in the program as part of an NSF initiative *Pathway to Successful Engineering Careers* with career mentoring, soft skills and research training to undergraduate students.

### SCIENCE AND MATH TUTOR-COMMUNITY SERVICE 06/2017-PRESENT

- Tutor over **100** high school and university students in science and math courses to improve their knowledge in the subject and their academic performance.

## Skills & Abilities:

- Languages: English, Spanish and Italian
- Intermediate in MATLAB, Python, Visual Basic, AutoCAD, Plot.Ly, Windows Microsoft.
- Ability to work with: project management, case study analysis, SOPs and, GLPs.
- Laboratory skills: screen printing, UV and Raman spectroscopy, HPLC, GC, PVD and cultivation of bacterial colonies.

# Jesús E. Meléndez-Gil

(787) 378-8430 | [jesus.melendez5@upr.edu](mailto:jesus.melendez5@upr.edu)

## OBJECTIVE

---

Obtain an internship or coop opportunity in Chemical Engineering or related fields in order to gain knowledge and hands-on experience within a professional environment.

## EDUCATION

---

- University of Puerto Rico – Mayagüez Expected Graduation: May 2022  
*Bachelor of Science in **Chemical Engineering*** GPA: **4.00/4.00**

## RELEVANT COURSES

---

- Materials and Energy Balances, Ordinary Differential Equations, Physical Chemistry I, Analytical Chemistry, Algorithms and Computer Programming

## RELEVANT EXPERIENCE

---

### Pathways to Success: RUMbo para el Éxito

*Mathematics Tutor*

September 2018 – Present

- Helping mostly freshmen students understand concepts about and properly solve mathematic problems relating to courses ranging from Precalculus I to Differential Equations
- Engaging with students for 10 hours a week with an average of 15 students

### Integration of Biology and Materials REU Program – Penn State University

*Research Assistant*

Summer 2019

- Investigated the effects of pH and isopropanol on the structure and rheology of different citrus fiber suspensions
- Analyzed cellulose microfibril orientation in the cell walls of different plant samples using sum frequency generation (SFG) vibrational spectroscopy

### NASA L'SPACE Academy

*Academy 1 & 2 Program Mentee*

August 2018 – May 2019

- Investigated the surface of Mars and its components to find a suitable landing site of scientific importance
- Developed the gondola-lander integration system and Earth testing procedure sections of the Preliminary Design Review

### ACS Chem Show

*Demonstrations Scientist*

April 2019

- Assisted in the lab preparation and transportation of 14 demonstration experiments
- Carried out 3 experiments for 4 hours as demonstrations for the audience
- Provided simple but accurate explanations for the science behind each experiment

### AiChE Resume Workshop

*Workshop Instructor*

April 2018

- Evaluated each resume and offered personalized advice on how to improve
- Shortly after improving their resume, 3 out of the 10 students received internship offers

### Air Force Junior ROTC Program

*Cadet Commander*

April 2016 – May 2017

- Responsible for the control, appearance, discipline and training of **96** cadets

## HONORS & AWARDS

---

### Dean's List

August 2018 – Present

- Received for being academically in the top **4%** of my year for at least two consecutive semesters

### President's Education Award Program

*President's Award for Educational Excellence*

May 2017

## SKILLS

---

- Fluent in English and Spanish; Beginner in French and German
- Proficient in Python



# Tamara I. Soto Hernández

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/myportfolio

## Profile

Undergraduate student seeking for internship or COOP opportunities to develop experiences and skills, to construct a successful pathway into professional life.

## Education

<b>University of Puerto Rico, Mayagüez Campus</b> Chemical Engineering, BS	Expected Graduation: May 2021 GPA: 3.78 / 4.00
<b>Luis Felipe “Pipo” Crespo, Camuy High School</b> Advanced Classes / High School diploma	GPA: 4.00 / 4.00

## Research Experiences

<b>Undergraduate Research</b> <i>DFT Study on the Effect of Aluminum Position in Cu-Exchanged MFI on Methane Activation</i> • Use Linux operating system to analyze the effect of copper atom distribution. • All calculations would be performed with Gaussian.	August 2019-Present Mayagüez, P.R.
<b>Multidisciplinary Research</b> <i>Participatory Action Research of the Development Communities Institute</i> • Investigate the community of Quebrada, Camuy. • Establish dialogues with residents, analyze community needs, search for solutions.	February 2019-May 2019 Mayagüez, P.R.

## Leadership and Extracurricular Experiences

<b>ePEARLS Leadership &amp; Mentoring Program</b> Mentor • Trained by Peer Led Team Learning (PLTL). • Offer workshops and office hours to help ePEARLS peers.	August 2019-Present Mayagüez, P.R.
<b>Society of Women Engineers (SWE)</b> Active member • Participant of workshops.	August 2019-Present Mayagüez, P.R.
<b>Program for Engineering Access, Retention, and LIATS Success (PEARLS)</b> ePEARLS student • Participant of workshops, meetings, research study, and other activities. • Enrolled in courses for professional development.	October 2018-Present Mayagüez, P.R.
<b>American Institute of Chemical Engineers (AIChE)</b> Staff member • Participant of symposium, workshops, meetings, and other activities.	August 2018-Present Mayagüez, P.R.
<b>Senior Class “Zoidaem”</b> Vice-president student • Coordinate the activities for an average class of 200 students. • Directive team member, leader worker, carry out fundraising activities.	August 2015-May 2016 Camuy, P.R.

## Honors

• Chemical Engineering Honor Roll Recognition.	March 2019-Present
• ePEARLS Scholarship.	January 2019-Present
• Honor Tuition Exemption (5% Highest GPA).	August 2018-December 2018
• Camuy Coop Scholarship.	May 2016-Present

## Skills

• Fluent in Spanish and proficient in English language.	• Proficient in AutoCAD and Python.
• Proficient in Microsoft Office (Word, Excel, Power Point).	• Adaptable to different environments.
	• Team worker.

# Civil Engineering

Name	Availability	
	Spring	Summer
• Carolina I. Garcia de Arce		✓
• Gabriela Yañes González		✓
• Sebastian Serrano	✓	✓

# 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.

## Education

*August 2016 - Present*      **Bachelor of Science : Civil Engineering**

- University of Puerto Rico - Mayagüez, P.R.
- Curricular Sequence in Arts.
- GPA: 3.58/4.00; Major: 3.43/4.00.
- Expected graduation: December 2021.
- Association: American Society of Civil Engineers (ASCE); Concrete Canoe Team member.

## Experience

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

*Nayda G. Santiago , PE, 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 professional goals.

*July 2019 - Present*      **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*      **Structural Plan Special Project / UPRM Library - Mayagüez, P.R.**

*Dr. Anidza Valentín Rodríguez*

- 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 (proficient).
- Proficient knowledge on computer programs: AutoCAD, Rhinoceros, SketchUp, PowerPoint, Excel, Word.

## Other Interests

- Good drawer: Realistic and portraits drawings.
- Certificate on Collaborative Institutional Training Initiative (CITI) program: Responsible Conduct of Research for Engineers - Stage 1.

## References

- References available upon request.

# GABRIELA YÁÑEZ GONZÁLEZ

P.O. Box 1976, Añasco, P.R. 00610 | (939)-732-1919 | gabriela.yanez@upr.edu

## Objective

Obtain an **Internship or COOP** experience in the summer in your company to exercise and incorporate my experience, abilities and problem-solving skills to fulfill any required purposes and tasks.

## Education

**Bachelor of Science:** Civil Engineering Expected Graduation: May 2021  
**University of Puerto Rico, Mayagüez Campus** - Mayagüez, Puerto Rico Major GPA: 3.57  
Scholarship: Program for Engineering Access, Retention and LIATS Success (ePEARLS) recipient

## Project Experience

- 2019 Summer Research Program**, University of Nebraska-Lincoln Jun 2019 - Aug 2019  
*Resilience of Rural Infrastructure: Shake Table Tests of Scaled Silos* | P.I.: Christine E. Wittich, Ph.D.  
▪ Analyzed the effect of the geometry and material flexibility in the response of free-standing structures to seismic loads.
- 2019 Student Steel Bridge Competition** Jun 2018 - May 2019  
*UPRM Steel Bridge Team Member*  
▪ Helped design an efficient 1:10 scale, lightweight, steel bridge in SAP2000, Inventor and SolidWorks).  
▪ Project placed **1<sup>st</sup>** Overall at Southeast Regional Conference, **5<sup>th</sup>** at US Nationals and **4<sup>th</sup>** at Canadian Nationals.
- 2019 ASCE Southeast Regional Conference**, University of Tennessee Nov 2018 - Mar 2019  
*Hack My Infrastructure Team Captain* – UPRM ASCE student chapter  
▪ Led a small team to design and build and program an electronic flow measuring system able to measure flow, velocity and slope of running water in a laboratory flume. Project placed **4<sup>th</sup>**.
- 2018 ASCE Southeast Regional Conference**, University of Florida Nov 2017 - Mar 2018  
*Horseshoe Hoedown Team Member* – UPRM ASCE student chapter  
▪ Helped design and build a resistant concrete horseshoe that met all the given specifications and could be used to play by being thrown 30 feet into a steel rod. Also participated in writing the Technical Paper for this project. Project placed **3<sup>rd</sup>**.
- 2017 ASCE Southeast Regional Conference**, Florida Atlantic University Nov 2016 - Mar 2017  
*Service Activity Team Member* – UPRM ASCE student chapter  
▪ Helped build a runoff control and agricultural education zone for a down syndrome center called “Salón Angelitos de Amor” in Rincón, P.R. Also participated in writing the technical paper for this project.

## Academic Affiliations

- American Society of Civil Engineers (ASCE) UPRM student chapter**  
*Board of Directives* – Documents Manager (2017-2019) & President (2019-2020) May 2017 – Present  
Maintain records of the association, prepare memorandum of the meetings and official reports, plan and organize events.  
*Service Committee* - Staff member Aug 2016 – Present
- Students Council of Engineering Faculty** Aug 2019 – Present  
*Civil Engineering Alderman*  
Civil Engineering student representative in the Students Council of Engineering Faculty
- Asociaciones de Ingeniería y Agrimensura (AICA) UPRM student chapter**  
*Board of Directives* – 2018-2019 President Aug 2018 – Aug 2019  
Organize different activities to maintain open dialogue and harmony between the different Civil Engineering and Surveying student chapters of the department.

## Skills & Abilities

- Fully bilingual in Spanish and English.
- Work efficiently under limited timeframes/pressure.
- Excellent organizational, interpersonal and problem-solving skills.
- Fast learner.
- Great Knowledge in Microsoft Office.
- Basic knowledge in AutoCAD, Python, SAP2000 and SolidWorks.



# Sebastián Serrano Pagán

Guaynabo, Puerto Rico

(787) 639-1240 / sebastian.serrano1@upr.edu

## OBJECTIVE

Organized civil engineering student in possession of good communication and leadership skills due to some experience in projects seeking the opportunity of a summer internship to contribute to my professional development opening the possibilities for future graduate school opportunities.

## EDUCATION

### Engineering School of University of Puerto Rico, Mayagüez Campus

Civil engineering bachelor's degree (2017-Current)

Current GPA: 3.33

## WORK EXPERIENCE

### Assistant, Faith Café & Grill

Guaynabo, Puerto Rico — since 2011

Perform various tasks such as customer service, closing cleanup and kitchen assistance.

### Mi María: Puerto Rico after the Hurricane

Social justice & community project (2018 – current)

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

Mentor: Dr. Ricia Chansky

website: [mimariapr.org](http://mimariapr.org)

## ACCOMPLISHMENTS & CERTIFICATIONS

- CITI Program course of Responsible Conduct of Research for Engineers, stage 1 (completed: 11/jul/2019)
- Scholarship Award from ACE Mentorship Program, for my college education (2015)

## SKILLS

- Computer Literate on AutoCAD, SketchUp, Internet Scene Assembly (ISA) & Microsoft Office softwares
- Creating research scenarios and running subjects on vehicle simulator using ISA software
- Bilingual: spanish, english
- Ability to communicate well with people
- Persistent in reaching my goals
- Meticulous and detailed oriented

# Computer Engineering

Name	Availability	
	Spring	Summer
• Ernest W. Annable		✓
• Jorge Vega		✓
• Leonardo Torres	✓	✓
• Rose M. Sánchez	✓	✓

# ERNEST W. ANNABLE

Po Box 1975

CIALES, PR 00638

PHONE: (787) 309-9541

E-MAIL: ERNEST.ANNABLE@UPR.EDU

An ambitious computer engineering major with a track record for providing reliable technical expertise, program development and project management. An innovator who excels in the challenge of accurate and efficient solutions for difficult situations in systems troubleshooting, proposals, programming, and algorithms. A well-rounded and reliable leader with outstanding interpersonal and communication skills driven to develop and grow within a challenging and rewarding environment.

## CORE SKILLS AND KNOWLEDGE

- |                                       |                                   |                                       |
|---------------------------------------|-----------------------------------|---------------------------------------|
| ➤ Computer Design and Troubleshooting | Project Planning and Optimization | Scheduling and Program Delivery       |
| ➤ Secret Level Security Clearance     | Java, C, Python, and LabVIEW      | Spanish and English Technical Writing |

## EDUCATION

### UNIVERSITY OF PUERTO RICO, MAYAGÜEZ CAMPUS

EXPECTED GRADUATION MAY 2023

BACHELOR OF SCIENCE – COMPUTER ENGINEERING WITH MINOR IN PHYSICS

CURRENT GPA: 3.76/4.00

## EXPERIENCE

### LOCKHEED MARTIN, OWEGO, NEW YORK

JUNE 2019 – PRESENT

SYSTEMS ENGINEERING CO-OP

- Responsible for supporting and collaborating in the development and completion of the complex MH-60R helicopter proposal
- Secret level security experience working with proprietary technology and systems to advance industry leading methodologies
- Updated more than 15 risks and introduced more than 10 risks within the risk tracking database to improve troubleshooting
- Supported ESS testing and troubleshooting to define and refine opportunities and setting up mission simulator for testing
- Developed and worked with proposal requirements, tracing more than 10 requirements and opportunities to improve output

### UNIVERSITY OF PUERTO RICO, MAYAGÜEZ CAMPUS

SEPTEMBER 2018 – MAY 2019

FROGGER PROJECT – STUDENT PROJECT (FEBRUARY 2019)

- Modified the project efficiently with a partner adding new features to a simplified version of Frogger with a given base code
- Planned, scheduled and prioritized project milestones and goals to ensure on time and accurate coding and programing

PHYSICS RESEARCH AND DEVELOPMENT IN ADVANCED TECHNOLOGIES POSITION (AUGUST 2018 – PRESENT)

- Utilized LabVIEW and Arduino software with physics experiments to advance workshops about on how to use these tools

PERMUTATIONAL BINOMIAL MATH RESEARCH (JANUARY 2018 – DECEMBER 2018)

- Implemented permutation binomial criteria in order to develop cryptosystems, identified two patterns to advance research

## LEADERSHIP AND VOLUNTEER EXPERIENCE

### SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS – SHPE

AUGUST 2018 – MAY 2019

SUPPORT TEAM MEMBER

- Responsible for developing and implementing various logistics to successfully improve the society's activities and interests

### CONFRA JAC

SEPTEMBER 2014 – MAY 2016

PRESIDENT AND FOUNDER

- Organization with more than 25 members to benefit the mental and emotional health of the students with reflective activities

### GENERACIÓN DE CONQUISTA

JANUARY 2014 – DECEMBER 2014

VICE PRESIDENT

- Supported spiritual and leadership development of the association, organizing activities and recruiting multiple members

### IGLESIA CRISTIANA DISCÍPULOS DE CRISTO, RIO ARRIBA SALIENTE DE MANATÍ

AUGUST 2014 – DECEMBER 2014

VOLUNTEER

- Worked alongside church and community, making monthly visits to clean and repair community beaches and churches

### CIALES, PR HIGH SCHOOL TUTORING PROGRAM

JANUARY 2014 – DECEMBER 2014

MATH TUTOR – ALGEBRA 1 AND 2, TRIGONOMETRY AND PRE-CALCULUS

## RECOGNITION AND SCHOLARSHIPS

### ENGINEERING PEARLS PROGRAM

JANUARY 2019 – PRESENT

### BOEING ACADEMIC EXCELLENCE SCHOLARSHIP

APRIL 2019

### LOCKHEED MARTIN TOP 100 SCHOLARS SCHOLARSHIP

APRIL 2018

## REFERENCES

REFERENCES WILL BE PROVIDED UPON REQUEST

# JORGE E. VEGA RODRIGUEZ

(787)-614-6020 • [jorge.vega6@upr.edu](mailto:jorge.vega6@upr.edu) • I-4, Apt. 1003, Ave. San Patricio, Guaynabo, PR 00968

**Objectives:** To acquire experience through **summer internship** positions in **Computer Engineering**, especially in the field of **Application Development**.

---

## EDUCATION

**University of Puerto Rico Mayagüez (UPRM)** Mayagüez, PR  
Bachelor of Science, **Computer Engineering** **Expected Graduation Date:** May 2021  
Cumulative GPA: **3.61/4.00** Major GPA: **3.66/4.00**

---

## SKILLS

- Proficient in Java
- Basic knowledge in: C#, Python, Angular, EF6, Flask, SQL, MATLAB, C
- Fully bilingual (English / Spanish)
- Adobe Photoshop, GIMP, LogicWorks
- Microsoft Word, Excel, PowerPoint
- Scrum and Agile Methodology, TFS
- Git Version Control (GitKraken)

---

## RELEVANT COURSES / WORKSHOPS

- Key Principles of Lean Manufacturing
- Peer-Led Team Learning CAHSI Workshop
- Data Structures
- Microprocessors and Embedded Systems

---

## RESEARCH & PROJECT EXPERIENCE

**Abarca Health, LLC - Migration of User-Permission Management System** San Juan, PR  
*Software Engineering Internship* May 2019 - Aug 2019

- Updated **database** items like Stored Procedures and Synonyms to implement a new user-role-permission logic across Abarca's applications.
- Found and fixed bugs to enable usage of an application to manage the new user-role-permission system, using **Angular** for the frontend and **C#** for the backend API.
- Organized the permissions table by validating used vs. unused permissions, standardizing naming conventions and fixing spelling / grammatical errors.

**A Steady-State Visual Evoked Potential (SSVEP) Brain Computer Interface (BCI) for Visual Cognition, Industrial Affiliates Program (IAP) Project** Mayagüez, PR  
*Undergraduate Researcher, Computer Engineering Department, UPRM* Aug 2018 - May 2019  
*Principal Researcher - Dr. Vidya Manian*

- Designed and implemented a Python application to interface with the Cyton Board and retrieve EEG data, apply data processing algorithms and provide feedback to the user.
- Implemented a visual stimulus for the BCI using MATLAB.

---

## LEADERSHIP / EXTRACURRICULAR EXPERIENCE

**Engineering Pearls PLTL Mentor (UPRM)** Mayagüez, PR  
• Offer PLTL workshops and individualized mentoring to ePearls students. Aug 2019 - Present  
**Community Engagement Project Coordinator** San Juan, PR  
• Created workshops and activities to promote interpersonal engagement between residents in the Los Olmos Condominium community. Aug 2015 - May 2016

---

## AFFILIATIONS

- Society of Hispanic Professional Engineers (SHPE), *Member of Support Team*
- Institute of Electrical and Electronics Engineers Computer Society (IEEE CS), *Member*

---

## AWARDS

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



# Leonardo G. Torres De La Rosa

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

## Objective

---

Obtain an internship or COOP position in Computer Engineering or related fields.

## Education

---

**University of Puerto Rico, Mayagüez Campus**

Expected Graduation Date: May 2022

Bachelor of Science in Computer Engineering: Computing Systems

GPA: 3.71/4.00

## Relevant Courses

---

- Algorithms and Computer Programming
- Fundamentals of Computing
- Electrical System Analysis II
- Electronics I
- Advanced Programming
- Logic Circuits

## Relevant Skills

---

- Knowledgeable in C language, Java, and Python syntax.
- Knowledgeable in Cadence circuit designing and simulation.
- Fully bilingual in English and Spanish.

## Leadership Experience

---

**Student Counselor at University of Puerto Rico, Mayagüez Campus**

September 2017 - Present

*Co-leader*

- Functioned as a co-leader managing and organizing groups of 30 freshmen engineers.
- Thoroughly planned and prepared activities, and the logistics for each day the orientation week, about 5 activities per day.
- Taught around 300 freshmen about the fundamentals of college through presentations and activities.

**Robotics Class at Academia Bautista de Puerto Nuevo**

August 2016 - April 2017

*Former teaching assistant*

- Assisted teachers instructing a group of 36 students about the fundamentals in a 2<sup>nd</sup> grade robotics class throughout the year.
- Taught skills for handling and identifying pieces and tools that are needed to construct machines and simple robots through lectures, presentations, and activities.

## Projects

---

**Industrial Affiliate Program Undergraduate Research at University of Puerto Rico, Mayagüez**

February 2019 – Present

*Volunteer researcher*

- In charge of gathering and interpreting data related to connection latency and distribution.
- Presented our findings to 10 assisting companies and professors in the IAP conference.
- Tasked with simulating new 5G elements using Docker containers and Kubernetes.

**BJT and MOSFET Amplifiers Circuit Designing**

June 2019 – July 2019

*Electronics course project*

- 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 analyzing obtained values, transient graphs, and DC/AC sweeps.

**Eclipsed-Snake Java Game Design**

August 2019 – September 2019

*Advanced Programming course project*

- Designed and implemented new features as in debug commands, game mechanics, and visuals to a game of Snake.
- Followed coding ethics for developing programs using Object Oriented Programming (OOP).
- Used git to be able to work in pairs by pushing and pulling from GitHub.

## Other Experience

---

**Pre-Engineering Program Twenty-Second RUM Summer Camp**

May 2016 - June 2016

*Participant*

- Elected to participate out of more than 500 applicants.
- Participated in different engineering projects as in making a small factory, creating a chemical product, and coding a game.
- Obtained a certificate of recognition in Chemical Engineering.

## Honors

---

- 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

# Rose M. Sánchez-Irizarry

[rose.sanchez@upr.edu](mailto: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 and surpass the company's expectations.

**EDUCATION:** University of Puerto Rico, Mayagüez  
Bachelor of Science in Computer Engineering  
GPA 3.13/4.0  
Expected Graduation Date: May 2021

## PROJECTS:

**CROME: RUMarino** Embedded Systems Division Member August 2018 – May 2019

- Researched options of cost-effective materials to design and implement a waterproof bumper switch that would detect frontal collisions of the Autonomous Underwater Vehicle (AUV).
- Familiarized with Robotic Operating System (ROS) and Python to communicate with the AUV.

**Special project: Sound Modulation** Team Member August 2018 – Present

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.

**SkillsUSA Mobile Robotics** Competitor November 2015 – July 2016

- Participated in the National Competition in Kentucky USA.
- Developed algorithm in easyC4 for the autonomous sequence and the driver controller of the robot to complete more than 3 tasks of SkillsUSA Mobile Robotics.
- Won the regional competition and participated in the National Championships.

**Vex Robotics** Team Member August 2014 – May 2016

- Contributed to the design and construction of the robot used in the competition.
- Created code for the autonomous sequence and driver controller using easyC4 to complete tasks.
- Won second place in the Latins division Competition.

## TECHNICAL / NON-TECHNICAL SKILLS:

- Fluent in Spanish and English.
- Knowledge in electronics, circuit troubleshooting, circuit welding, and electrical wiring.
- Knowledge of Python, Java, C++, MATLAB, easyC4 programming language.

## RELEVANT COURSES:

- Fundamentals of Computing
- Data Structures
- Algorithm and computer programming
- Advanced programming

## ACTIVITIES/AWARDS/CERTIFICATION:

- Electronics training approval May 2016
- Engineering PEARLS Scholarship August 2018- Present

# Computer Science & Engineering

Name	Availability	
	Spring	Summer
• Ángel A. Galeano		✓
• Christian Alapont	✓	✓
• Gabriel Rodríguez	✓	✓
• Joshua Cruz		✓

# Ángel Adrian Galeano Ortiz

---

Address: Ponce PR, Virgilio Biaggie 00717 | 939-209-7435 | [angel.galeano@upr.edu](mailto:angel.galeano@upr.edu)

## Education

**GPA: 3.11**

**BACHELOR'S DEGREE | WILL GRADUATE 2021 | UNIVERSITY OF PUERTO RICO, MAYAGUEZ**

- Major: Computer Science and Engineering

## Skills & Abilities

### COMPUTER ABILITIES

- Experience in Python, Java, Scala, Dr. Racket
- Learning C++
- Certificate in all word processing applications.
  - Excell, Word, Publisher, Access, PowerPoint
- Fluent in both English and Spanish.
- In process of learning Mandarin Chinese

### PROJECT REPOSITORIES

- Github: 23Adrian
- Git Lab: 23Jellal

### Current Project:

- Developing a personal programming language to help with medical protocols
- Developing a basic ray tracing renderer in python for parallel computing applications.

### LEADERSHIP

- Parliament leader in the association of FBLA.
- Current PLTL Leader helping students develop e-portfolios

## Experience

**ASSISTANT GUIDANCE COUNSELOR | ESCUELA SUPERIOR STELLA MARQUEZ | OCTOBER 15, 2015-MAY 10, 2016**

- I had the task of managing all the school's records. Had the opportunity to create important documents and letters for the administration.
- Volunteered in a Summer Camp for a non-profit organization to provide kids with food and teach creativity with arts and crafts with skills like origami.

## Associations

**FBLA**

**National Society of Leadership and Success**

**E-Pearls**

# CHRISTIAN A. ALAPONT HERNÁNDEZ

Phone: (787) 940-6621  
christian.alapont@upr.edu

[https://gitlab.com/chris\\_248](https://gitlab.com/chris_248)  
<https://www.linkedin.com/in/christian-alapont-6026b9190/>

## 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, GPA: **3.73**  
Computer Science and Engineering August 2017- May 2022

## RELEVANT COURSEWORK

---

- Advanced Programming, Data Structures and Introduction to Software Engineering.

## EXPERIENCE

---

**Cybersecurity Research | University of Puerto Rico, Mayagüez Campus** August 2019 - Present

- Familiarizing myself with network terms of Cisco CCNA, Linux and CompTIA Security+. The main goal is to implement an Adaptive Network Anomaly Detection System.

**Rumarino | University of Puerto Rico, Mayagüez Campus** May 2019 - Present

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

**Data Structures Polynomial Methods Project** April 2019

- Developed a class that works like a polynomial calculator in Java. Gained experience implementing abstract data types and with object-oriented programming concepts.

**Burger and Beer Joint | San Juan, Puerto Rico | Expo and Runner** Summer 2018

- Ensured the food done by cookers was on time, added final touches and delivered the food. Practiced multitasking, clear verbal communication and had customer service experience.

**Megaman | Class Project** April 2018

- Developed important functions of the game like: levels, character and bullet movement, platform movement and a boss level. Done in Java. Practiced debugging and writing algorithms.

## ORGANIZATIONS & ACTIVITIES

---

**Tapia Conference** September 2019

- Received a travel loan to participate in the Tapia Conference 2019.

**Boeing Scholarship** February 2019

- Recognized for academic excellence and one of the 36 students chosen to receive a \$1,000 scholarship.

**ePearls | Program for Engineering Access, Retention, and LIATS Success** October 2018 - Present

- Organization complements students' education with individualized mentorship, opportunities and workshops to help in career path.

**University Honor Roll** 2018

- University honor roll for the year 2017-2018.

**Lockheed Martin Scholar** 2018 - Present

- Recognized for academic excellence and one of 20 students chosen to receive a \$1,000 scholarship.

**National Hispanic Recognition Program** 2017

- One of 200 Puerto Ricans invited to join by College Board.

## SKILLS

---

- Python(intermediate), Java(intermediate).
- Beginner in ROS framework.
- Teamwork, organization, leadership, communication and adaptable.
- Languages: Spanish(native), English(native).



# Gabriel E. Rodríguez Ortiz

[gabriel.rodriguez66@upr.edu](mailto:gabriel.rodriguez66@upr.edu)

(787) 900-6598



**OBJECTIVE:** To pursue an internship or coop where I can contribute towards its success and in return 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**  
**GPA: 3.87/4.00 Expected Graduation Date: May 2021**

**RELATED COURSEWORK :** Data Structures, Data Mining/Machine Learning, Fundamentals of Computing

## WORK EXPERIENCE:

**Judicial Branch, Mayagüez, Puerto Rico - COOP**

**Jun 2019 – Present**

- Working as a Confidential Systems Analyst Programmer. I am with a team employing Scrum framework developing a web application using tools as: Django (including the rest-framework), PostgreSQL, JavaScript and others.

## ACADEMIC EXPERIENCE:

**Moonbuggy Engineering Team, UPR at Mayagüez – Telemetry Member**

**Jan 2019 – May 2019**

- Worked mostly in the development of the Back-End of a Web Application used for visualization of Rover's data, implementing a REST API with Node.js and Express.js. Also collaborated in the Front-End using tools as Angular.

**Research: Predicting Trip Cancellations and No Shows in Paratransit Operations**

**Jan 2019 – Jul 2019**

- Applied study implementing Machine Learning models to predict reservations outcomes and class probabilities using data from the Metropolitan Bus Authority of Puerto Rico.

## ACTIVITIES:

**American Society for Engineering Education – Vocal**

**Aug 2018 – Present**

- Member of the Outreach and TISAM Committee. Participated in visits to schools, where we offered knowledge about the different branches of engineering to high school students.
- Impacted a huge group of high school students providing a review of mathematical concepts for the College Board exam and gave a workshop in the same school.

**Advanced Programming Course Volunteer – Mentor**

**Jan 2019 – May 2019**

- Worked in the committee that is in charge of preparing activities related to programming in order to improve students' skills, also we design mock exams and reviews of the necessary concepts for the exams.

## AWARDS:

**Engineering Pearls Member - Selected**

**2018**

- The PEARLS program, sponsored by the National Science Foundation through the project, has as an objective helping students in all engineering disciplines in the UPRM to successfully complete their study programs and transition into professional life.

**3<sup>rd</sup> place in Interuniversity Programming Competition**

**2018**

- Competition in the University of Puerto Rico, Ponce

## PROGRAMMING SKILLS:

- Advanced/Proficient knowledge: Python and Java
- Basic knowledge: JavaScript, SQL, MATLAB, HTML and CSS
- Web Dev: Django, Angular and Express

## RECOGNITIONS:

- Engineering Faculty Honor Roll
- Selected for Honor Tuition



# JOSHUA CRUZ CINTRÓN

COMPUTER SCIENCE AND  
ENGINEERING STUDENT

---

## EDUCATION

---

University of Puerto Rico- Mayagüez  
B.S in Computer Science & Engineering  
GPA: 3.54  
Expected Graduation Date: May 2022

---

## SKILLS

---

- Python
- Django
- Flask
- Numpy
- Matplotlib
- JavaScript
- Java
- ReactJS
- SQL
- DevOps
- Git
- Jira
- CI/CD
- Jenkins
- Heroku
- Apache
- PostgreSQL
- Containers
- AWS Management Console
- Google Cloud Console
- REST
- Teamwork
- Agile
- Scrum
- Leadership
- Public speaking
- Poetry

---

## CONTACT ME:

---

Phone: (787) 383-7565  
Email: [joshua.cruz15@upr.edu](mailto:joshua.cruz15@upr.edu)  
Website: [joshua.cruz.xyz](http://joshua.cruz.xyz)  
Address: PO Box 3433 Mayagüez, Puerto Rico  
00681

## EXPERIENCE

### Teacher's Aide (Advanced Programming Course)

UNIVERSITY OF PUERTO RICO-MAYAGÜEZ  
AUGUST 2019 - CURRENT DATE

- Collaborate with Professors, and other Aides to provide useful and diverse learning resources for students taking the course.
- Create challenging class projects for applying core course concepts such as **Object Oriented Programming, recursion, and sorting.**
- Help students understand coursework by providing individual support during office hours.

### Confidential Systems Analyst Programmer

JUDICIAL BRANCH OF PUERTO RICO  
JUNE 2018 - AUGUST 2019

- Developed full-stack web applications & **RESTful** interfaces using **Python, Django, JavaScript, PostgreSQL, Apache, and Linux.**
- Worked on an agile development team employing Scrum framework.
- Optimized application testing by designing framework for unit test design using Selenium webdriver tool.

### Computer Engineering Team

UNIVERSITY OF PUERTO RICO - MAYAGÜEZ  
AUGUST 2017 - JUNE 2018

- Designed algorithm for autonomous navigation of maritime robot using machine vision and digital sensors.
- Built communication interface between **Raspberry Pi 3, Arduino** for motor control, and navigation.
- Worked with multidisciplinary group of Engineering students with different project roles.

### Computer Science Research Student

UNIVERSITY OF PUERTO RICO - HUMACAO  
AUGUST 2015 - JULY 2017

- Applied Python programming language and molecular dynamics simulations to research in material science.
- Extracted and analyzed data from molecular dynamics simulations using **Python's Matplotlib, and Numpy** modules.
- Designed algorithms for image processing of confocal laser microscope images.

## PERSONAL PROJECTS

- **SemesterKeeper** - RESTful interface & web client for organizing courses into a dynamic curriculum.
- **CollegeHousing** - RESTful interface & mobile app for finding college lodges near campuses using tag-based filtering to refine results.
- **SRC** - Team of cross-functional developers providing resources and workshops on software tools and concepts.

# Electrical Engineering

Name	Availability	
	Spring	Summer
• Alexis Burgos	✓	✓
• Carlos R. Mercado		✓
• Carol Ortiz Menendez	✓	✓
• Kevin J. Montalvo Vega		✓
• Man Tong Sam Chi	✓	✓



# Alexis R. Burgos Rivera

Urb. Santo Tomas #96 calle 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: 3.78 / 4.00  
Expected Graduation Date: May 2023

**Ana Delia Flores Santana School**  
Certificate in Electricity  
GPA: 3.89 / 4.00  
Graduation: May 2017

---

## EXPERIENCE:

**Domino's Pizza** **June 2019 – July 2019**  
*Delivery Expert*

- Did deliveries, helped make pizzas, kept the restaurant area clean and covered basic needs of a restaurant.

**Power and Energy Society (PES)**

*President* **January 2019 – Present**

- In charge of the professional activities, look for ideas to develop the association, present reports, find funds from interested companies, scheduled meetings and divide tasks.

*Vice-President*

**August 2018 – December 2018**

- Scheduled meetings, worked in groups, divided tasks and if the president was absent, made decisions about what is best for the association.

**Restaurant La Finca, Naguabo P.R.**

**May 2017 – July 2017**

*Maintenance – Runner*

- Kept the restaurant area clean, provided lodging to the warehouse and maintained the floor.
- Brought food to tables, was on the lookout for customers and attended waiters.

**Club de Leones, Naguabo P.R.**

**July 2017**

*Electric Maintenance*

- Changed wiring of electric lamps and periodically checked the electrical system.
- 

## ACTIVITIES:

**Power and Energy Society, Mayagüez** **September 2019**

*Coordinator, Volunteer*

- Provided happiness to homeless people through a breakfast organized by IEEE associations.

**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*

- Bathed, fed and provided medications to animals under an expert supervision.
- 

## RESEARCH:

**Energetic future for Puerto Rico** **August 2018 – Present**

*Researcher*

- Looked for information about the last places where electricity was restored after Hurricane María to see if a microgrid system was viable.
- Made an analysis of strategic places to place photovoltaic systems for the UPRM with the programs PV Watts and google Sunroof.

**Resilience Electric System of Puerto Rico**

**October 2017 – February 2017**

*Researcher*

- Researched for information about how Puerto Rico's electric infrastructure got affected by Hurricane María.
  - Made surveys on whether the information provided by the AEE was correct.
  - Helped set up photovoltaic systems for communities without electric service.
- 

## SKILLS:

- Intermediate Proficiency with Microsoft Word and Microsoft Power Point
  - Read and create electrical drawings and residential electrical circuits
  - Considerable knowledge in installing transformers, electric motors and photovoltaic systems
- 

## ACHIEVEMENTS:

**ePearls program** **August 2018 – Present**

*Participant*

- Scholarship program for some talented students in which the students can develop leadership through different seminars.

**National Society of Collegiate Scholars (NSCS)**

**April 2019 – Present**

*Participant*

- Honor organization that recognizes and elevates high-achieving students.

**Scholar Program of IEEE Association**

**August 2017 – May 2018**

*Participant*

- Assistantship program for newly elected students in which the students can develop leadership and companionship skills.

**Skills U.S.A. Electricity Competition**

**January 2017**

*Competitor*

- Made an electric residential installation in a certain time.

# Carlos R. Mercado Oliveras

HC 07 BOX 71155 Arecibo, PR

carlos.mercado4@upr.edu

Cell:939-292-7708

---

## OBJECTIVE

To immerse myself in an internship/co-op experience where I can offer my passion and skills for the company's growth and development while increasing my technical knowledge in Electrical Engineering.

---

## EDUCATION

**University of Puerto Rico - Mayagüez Campus**

*Bachelor of Science in Electrical Engineering*

Expected Graduation Date: **December 2021**

GPA: **3.59/4.00**

---

## Relevant Courses Work

- Electrical System Analysis I and II
- Electromagnetics I
- Electronics I
- Logic Circuits
- Electrical Measurement Laboratory
- Algorithms and Computer Programming

---

## RESEARCH AND FIELD EXPERIENCE

### **American Electric Power**

**June 2019 - August 2019**

*Protection and Control Engineering COOP*

- 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.
- Worked with ASPEN to model distribution breaker settings.

### **ABB Industrial C&S of P.R. LLC**

**January 2019 – May 2019**

*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**

**August 2017 - December 2018**

*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**

**August 2016 - May 2017**

*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 8<sup>th</sup> - 12<sup>th</sup> grade in order to increase interest and engagement into pursuing STEM related carriers.
- Coordinated and collaborated in the funding sales for the PDP challenge and accomplished a \$100.00 profit for the NSPE.

---

## SKILLS

- Bilingual: English and Spanish
- Computer Skills: Microsoft Office, Programming Language C / C++, AutoCAD, MATLAB, MicroStation, ASPEN, and ProjectWise
- Excellent communication, leadership, teamwork, and time management skills.

# Carol Ortiz Menéndez

[carol.ortiz3@upr.edu](mailto:carol.ortiz3@upr.edu)

## Current Address:

Las Flores Street Cond Escorial 1  
Mayaguez PR, 00680

## Permanent Address:

HC 4 box 14118 Arecibo PR 00612  
Phone: (939) 254-3756

**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 Mayaguez Campus

Bachelor's Degree in **Electrical Engineering** Control Systems  
**GPA 3.04 Expected Graduation Date: May 2022**

**Aug 2017-Present**

## RELEVANT COURSES:

- Static & Dynamics
- Materials Science
- Circuit Analysis 1
- Calculus 3
- Programming & Algorithms

## PROJECTS:

### Fourier Ptychography microscope inside of a multi-cell well plate using a Miniature Illuminator Module -Nanotechnology and Biomedicine REU in University of Georgia Athens

**May-July 2019**

- Developed a Fourier Ptychographic microscopy system which enables multicolor label-free imaging of cells inside of a multi-well 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)
- 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: "Fourier Ptychography microscope inside of a multi-cell well plate using a Miniature Illuminator Module"

- University of Georgia Athens Poster Presentation
- Biomedical Engineering Society Conference
- NSF EEC Grantees Conference

**July 2019**

**October 2019**

**October 2019**

## RECOGNITIONS:

### EPEARLS, National Science Foundation 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**

**November 2017**

- Achieving more than 80% on technical and theoretical examinations

## TECHNICAL / NON-TECHNICAL SKILLS:

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

---

# Kevin J. Montalvo Vega

[Kevin.montalvo5@upr.edu](mailto:Kevin.montalvo5@upr.edu)

(787) 322-8818 | U.S. Citizen

Urb. Regional 8<sup>th</sup> street H-4 Arecibo, Puerto Rico 00612

## EDUCATION: University of Puerto Rico - Mayagüez Campus

B.S. Electrical Engineering - concentration in Control Systems

GPA 3.33/4.0

Expected Graduation Date: May 2022

## PROFFESIONAL EXPERIENCE:

### NASA – Armstrong Flight Research Center

Intern

Summer 2019

- Supported the KSC Integration Office, mentored by the Audit Liaison Representative and Document Systems Manager
- Supported in the management and digitization of large amounts of official documents, using TechDoc for security and ease of manipulation of electronic records in bulk
- Used Sitecore tool to help keep the office's website up to date.

### NASA – Kennedy Space Center

Intern

Spring 2019

- Supported the KSC Integration Office, mentored by the Audit Liaison Representative and Document Systems Manager
- Supported in the management and digitization of large amounts of official documents, using TechDoc for security and ease of manipulation of electronic records in bulk
- Used Sitecore tool to help keep the office's website up to date.

## PROJECTS:

### CROME Rumarino

Team Member

August 2017 - Present

- Controls Lead for the Rumarino Embedded Systems Team
- Working on the development of embedded systems using programming languages like Python and ROS
- Developed software used to manipulate the UAV's thrusters to achieve optimal movement under water
- Aided in the implementation of the Doxygen tool to improve software documentation within the embedded systems team

### VEX Robotics Competition

Team Member

August 2014 - May 2016

- Design Lead of the following teams: LRT 2213B and LRT 2213Z
- Refined the overall design and construction of robots who competed in island-wide competitions
- Team coach for LRT 2213Z, kept track of scores and came up with on-the-spot strategies for the matches

## PRE-COLLEGE PROJECT EXPERIENCE:

### SkillsUSA

Competitor

November 2015 – July 2016

- Mechanical in the Robotics and Automation Technology competition
- Represented Puerto Rico in the 2016 SkillsUSA National Leadership and Skills Conference (NLSC)
- Won 5<sup>th</sup> place in the Robotics Automation Technology (RAT) competition at the (NLSC)

## TECHNICAL / NON-TECHNICAL SKILLS:

- Electrical wiring
- Circuit welding
- Digital Circuit Analysis
- Basic knowledge of microcontroller systems
- Proficient in C and Python programming languages
- TechDoc Database tool
- Sitecore Web design
- FEMM Electromagnetic Modeling Tool

# Man Tong Sam Chi

mantong.sam@upr.edu • (787) 210-2659 • San Juan, PR • linkedin.com/in/mantong-sam

## Objective

---

Obtain internship or co-op in Electrical Engineering or related fields

## Education

---

**University of Puerto Rico, Mayagüez Campus**

Expected Graduation Date: May 2022

Bachelor of Science in Electrical Engineering

GPA: 3.42/4.00

## Relevant Coursework

---

Completed

- Algorithms and Computer Programming
- Physics II
- Materials Science for Electrical Engineers

Current

- Electrical System Analysis II
- Electronics II
- Logic Circuits

## Leadership Experience

---

**Institute of Electrical and Electronics Engineers (IEEE-UPRM)**

September 2018 – Present

*Circuit and Systems Directive Member (CAS)*

- 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

**Academia Bautista de Puerto Nuevo Robotics Club**

August 2014 – May 2019

*Former Vice-President*

- Developed leadership and teaching skills by mentoring a third-grade class, promoting students to pursue STEM related careers
- Awarded 3<sup>rd</sup> place in the 2013 competition at FIRST Tech Challenge (FTC) hosted by Polytechnic University of Puerto Rico

## Extracurricular Experience

---

**RUMarino**

May 2019 – Present

*Team Member*

- Researching alternatives for an improved power distribution throughout the submarine
- Used Robot Operating System (ROS) to control submarine and calibrate the PID controller
- Documented and organized photos for the implementation of machine learning in submarine
- Awarded 15<sup>th</sup> place 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*

- 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

**UPRM Pre-Engineering Summer Camp**

June 2016

*Participant*

- Chosen to participate out of approximately 500 applicants
- Participated in different engineering projects related to each engineering career offered in the university such as: Bridge building, creating a game, developing a manufacturing line, among others
- Obtained a certificate of recognition in Civil Engineering for designing a functional bridge with the lowest budget using West Point Bridge Design

## Relevant skills

---

- Beginner in C/C++ programming language, Python syntax, ROS, Microsoft Office, Photoshop, and Premiere Pro
- Boeing Academic Excellence Scholarship, 2019 Beginner in Eagle, and Cadence PSpice
- Basic knowledge of electronic circuits
- Fully Bilingual in English and Spanish

## Honors

---

- National Society of Collegiate Scholars, 2019 – Present
- Boeing Academic Excellence Scholarship, 2019

# Industrial Engineering

Name	Availability	
	Spring	Summer
• Bryan S. Ortíz		✓
• Cristina Bonilla	✓	✓
• Frederick Y. Gonzalez	✓	✓
• Isabel López Victoria	✓	✓
• Loaiza Medina	✓	✓
• Osvaldo Nieves	✓	✓
• Rosa Laureano	✓	✓
• Ruben Lopez	✓	✓

# Bryan S. Ortiz-Torres

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

## EDUCATION

**University of Puerto Rico, Mayagüez Campus (UPRM)**  
BS in Industrial Engineering

Expected Graduation: May 2021  
GPA: 3.60/4.00 Major GPA: 4.00

### Relevant Courses

- Applied Statistics
- Economic Analysis
- Work System Design
- Design of Experiments
- Operations Research
- Work Measurement

## PROJECTS

**Molecular Characterization of Chimeric Antigen Receptor T-Cells**

*Research Advisor: Dr. Wandaliz Torres García*

*August 2019–Present*

- Characterize important attributes of cellular therapies that will help monitor safe and potent treatments early in their manufacturing process.
- Implement some preliminary analysis with machine learning techniques to assess donor-to-donor variability.

**Villa Design, Aguada, Puerto Rico**

*UPRM Advisor: Dr. Cristina Pomales*

*August 2019–Present*

- Expected to do time studies, line balancing and to establish compensations in order to improve the company's profits.

**INDULAC Inc., San Juan, Puerto Rico**

*UPRM Advisor: Glorimar López-Roldán*

*January 2019 – May 2019*

- Developed an ergonomic evaluation of one of the industry's tasks and proposed recommendations considering the limits and capacities of the institution as a whole.

**Concrete Compressive Strength Regression Model**

*UPRM Advisor: Dr. Wandaliz Torres-García*

*January 2019 – May 2019*

- Performed a regression model to predict concrete compressive strength in order to reduce time and material waste.

## LEADERSHIP EXPERIENCE

**Goldman Sachs Exploratory Program 2019, New York, NY**

*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.

**Counseling and Psychological Services Department**

*Student Guidance Counselors*

*May 2017 – Present*

- Supported the professional counseling program helping about **250** new students in their transition to university life.

**Colegio Racing Engineering – FSAE UPRM**

*Project Management Division*

*August 2018 – December 2018*

- Managed inventory and organize work areas using the 5S methodology, worked on the creation of the manufacturing cost report and collaborated in the fundraising of the team to cover the expenses of the manufacturing process.

**SHPE-UPRM**

*Services & Logistics Coordinator*

*January 2018 – May 2018*

- Oversaw budget approval processes and payment disbursements made by the University to our vendors.
- Managed in campus and off campus bookings for events and coordinating allocation of resources for all events.
- Assisted in logistics and support team management for over **10** organizational events per semester.

**Other Activities**

- **Faculty of Engineering Students Council**, Industrial Engineering councilor *August 2018 – Present*
- **Peer-Lead Team Learning (PLTL)**, mentor *February 2019 – Present*

## HONORS AND AWARDS

**Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP)**

*August 2019*

- Receiver of a scholarship sponsored by NSF that aims to help undergraduate STEM students continue and complete 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 received individualized career mentoring, soft-skills training and peer-mentor activities.

**Credicentro Coop Scholarship**

*August 2016*

- Received an academic scholarship for having an outstanding academic result and promoting cooperative values.

## SKILLS

Basic knowledge in **C, R, MATLAB, Excel** and **Minitab**

Languages: Spanish (native), English (proficient)

# Cristina M. Bonilla

cristina.bonilla2@upr.edu

(939) 265-8015

## 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

Expected Graduation Date: May 2022  
GPA: 3.38/4.00

## HONORS

*Program for Engineering Access, Retention, and LIATS Success (ePEARLS) - Scholarship*      *October 2018 - Present*  
*Industrial Engineering Honor Roll*      *August 2017 - Present*

## RELEVANT COURSES

Engineering Graphics, Algorithms and Computer Programming, Microeconomics, Project Management

## PROFESSIONAL EXPERIENCE

*American Society for Engineering Education*      January 2019-Present  
• *Member*  
*Program for Engineering Access, Retention, and LIATS Success (ePEARLS)*      *October 2018 - Present*  
• *Scholar*  
*Society of Hispanic Professional Engineers (SHPE-UPRM)*      August 2017-January 2018  
• *Active Member*  
    - Participant of meetings, activities, and workshops.  
*2017 Graduation Class Directive*      August 2016-May 2017  
• *Treasurer/Activities Coordinator*

## WORK EXPERIENCE

**ISOLINA POP in PLAZA Las AMERICAS**  
*Customer Service Representative and Cashier*      Summer 2018  
**ABC Program – San Lorenzo, Puerto Rico**  
*Event Coordinator-Photojournalist*      Summer 2014

## EXTRA-CURRICULAR ACTIVITIES

**Community Service Activities**      Summer 2018  
• Tutor at Centro Comunitario Hato Grande, San Lorenzo, Puerto Rico  
**Scuba Dogs Society**      Spring 2017  
*Volunteer*  
• Beach and community cleaning  
• Administrative work

## SKILLS

- Fully bilingual
- Proficient in Microsoft Office, such as: Word, Power Point, Excel, and Publisher
- Intermediate in Python, MathLab, Sketchup, and AutoCad
- Ability to work with kids and people



# Frederick Y. González Román

449 Calle los Prietos, Quebradillas, PR 00678 | (787)-960-2203 | frederick.gonzalez@upr.edu

## OBJECTIVE

---

Strive to develop my leadership, professionalism and knowledge through experiences, such as internships and COOP's, that integrate and are useful for my academic years; moreover, my profession as an industrial engineer.

## EDUCATION

---

**University of Puerto Rico, Mayagüez Campus**  
Bachelor of Science in Industrial Engineering  
Minor in Project Management

Expected Graduation Date: May 2021  
GPA: 3.54/4.00

## WORK EXPERIENCE

---

**Beckton Dickinson (BD)** – Humacao, PR

**Jun 2019 – Aug 2019**

*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 savings

## LEADERSHIP EXPERIENCE

---

**Engineering Faculty Student Council - UPRM**

**Aug 2018 – May 2019**

*Councilor*

- Represented over 5,000 engineering students at UPRM
- Member of the Engineering Week and the Law and Regulations Committees

**Children's Extreme Poverty Resilience and Outreach (C.E.R.O) - UPRM**

**Sept 2018 – May 2019**

*Secretary*

- In charge of writing official documents and logs
- Management of email and social media accounts as well as organizing meetings and events

**U.N.I.C.E.F UPRM**

**Aug 2016 – Jun 2017**

*President*

- Raised money as part of the *Trick or Treat for UNICEF* campaign for the U.S. Fund
- Collaborated on fundraising and organizing donated supplies for Haiti after Hurricane Matthew
- Organized along other members the *UNICEF Hugs Humanity* campaign and Info-Table

## ACADEMIC WORK

---

**Optimization Driven Biological Discoveries Research – UPRM**

**Jan 2019 – Present**

*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 gene data bases.

## HONORS AND AWARDS

---

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

**Oct 2018 - Present**

*Participant and Scholarship Recipient*

- NSF sponsored program to compliment student's education with individual mentoring, soft-skills training, research opportunities, and peer-mentoring activities with the goal of student success.

## SKILLS

---

- Intermediate knowledge in statistical software: Minitab, RStudio, Excel, StatFit
- Proficient on Microsoft Office and SketchUp
- Intermediate knowledge in Python and MatLab programming languages
- Team work and leadership skills
- Fully Bilingual (English - Spanish)

# Isabel M. López de Victoria Martínez

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

**OBJECTIVE:** Seeking challenging internship that will help me develop my knowledge in business, data analyzing, optimization & project management.

---

## EDUCATION:

University of Puerto Rico- Mayagüez Campus  
B.S in Industrial Engineering

GPA 3.21/4.00  
Expected Graduation: May 2022

---

## PROJECTS:

- The Applied Optimization Group, University of Puerto Rico (UPRM)* **Aug2019-Present**
- Responsible for designing and manufacturing a practical sitting chair made from tennis balls.
  - Developing research on haptic devices with a budget of **\$1,000**.
- Program for Engineering Access, Retention, and LIATS Success, University of Puerto Rico (UPRM)* **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 transition into professional life.
  - Receive mentoring from the top Engineering professors in UPRM.
- Major Key Alert (MKA), University of Puerto Rico (UPRM)* **Aug 2016-May 2017**
- Presented a **college-level capstone** with a team of **5 high school seniors** at the Open House- CIIM Department of Science Engineering and Materials
  - Worked on the physical design of the product and further developed the original idea through Auto CAD.
  - Received **1<sup>st</sup> place** out of **28 capstone** projects from undergraduate and graduate students.

---

## LEADERSHIP EXPERIENCE:

- Institute of Industrial and Systems Engineers (IISE), University of Puerto Rico (UPRM)* **Sept 2018-Present**
- Selected alongside 20 students for the Institutes Mentorship Program.
  - Participated in the national beach cleanup day in Mayaguez, Puerto Rico. Picked up alongside my fellow IISE Team more than **100 items** of potential harmful garbage to the marine ecosystem
  - Currently an active member
- Society of Hispanic Professional Engineers (SHPE), University of Puerto Rico (UPRM)- CHAMPIONS* **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.
- Society of Hispanic Professional Engineers (SHPE), University of Puerto Rico (UPRM)* **Aug 2017-Present**
- Worked in Engineering Diversity General Expo (EDGE) 2018 for **100+ students** with a duration of **three days**
  - Participated in SHPE annual Career Development Day among 100 students
  - Currently an active member
- 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.
  - Will work alongside **8 companies** assisting them in the activities they will be presenting to the students.
- Capital One Ignite Development Program Selectee,* **Aug 2019**
- Invited to attend a half-day program focused on developing skills in interviewing, networking, and personal branding.
  - Problem solving mock interview cases.
  - Networked with senior level executives and associates.
  - Obtained skills to help further my recruiting success.
- Economic Community Summit (ECOS), University of Puerto Rico (UPRM)* **Sept 2018**
- Attended among **150 students** a full day conference that brought several companies together to offer workshops for students.
  - Participated in skill development workshops for networking, interviews and personal branding.
- Volunteer work for hurricane Maria relief efforts in University of Puerto Rico (UPRM)* **Oct 2017- Dec 2017**
- 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**

---

## SKILLS:

- Proficient in MS Office Suite
- Moderate Python
- Engineering CAD: Basic Auto CAD
- Bilingual (Spanish-English)

# LOAIZA G. MEDINA PÉREZ

| (787) 981-2741 | loaiza.medina@upr.edu | Parcelas Soledad Calle J Buzón 1409, Mayagüez PR 00680 |

---

## EDUCATION

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

Estimated Graduation Date: May 2021  
GPA: 3.65/4.00

## AWARDS

Engineering Pearls Scholarship August 2018  
• Program Sponsored by the National Science Foundation.

## RELEVANT COURSE

Engineering Economic Analysis

- 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.

Statistic and Probability

- 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, San Sebastián, PR**

June 2019 – Present

*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.

**CITAI Research Project, Finca González, Guánica, PR**

June 2019 – Present

*Cost Analyst*

- Learn data given by the farm's agronomist in order to simplify it for the researcher.
- Analyzed data to calculate the costs of the farm's packinghouse.

**Cómplices Store, Mayagüez, PR**

May 2019 – September 2019

*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.

**Dr. Rivera Bericochea, Dentist Office, Mayagüez, PR**

October 2016 – September 2017

*Receptionist*

- Received around 70 daily patients and organized their paper work.
- Verified they had their medical insurance up to date and were qualified patients.
- Settled their accounts and scheduled new appointments.

## EXTRACURRICULARS

**Engineering Pearls, UPR-Mayagüez**

August 2018 - Present

*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**

# Oswaldo Nieves Guzmán

Calle Don Chemary #8  
Moca, Puerto Rico, 00676  
osvaldo.nieves2@upr.edu  
787-517-1198

---

## Objective

Obtain an internship in order to acquire the experience and knowledge of the operations and daily administration of a company, in addition to get comfortable with the work environment, in order to better perform my work.

## Education

**University of Puerto Rico at Mayagüez**  
Bachelor of Science in Industrial Engineering

Expected Graduation Date: May 2022  
Current GPA: 3.73

**Catalina Morales de Flores, High School**

Graduation Date: May 2017  
GPA: 4.0

## Experience

**Pre – Engineering camp**  
Outstanding performance in 4 engineering activities

Date: 12-18 June 2016

## Honors, Awards and Affiliations

**ePEARLS, 2018 - Present**

An NSF sponsored program focused on aiding academically talented students to successfully complete their study programs and transition into professional life.

**SHPE UPRM, 2017 - 2018**

**Part of the club CREST 2016-2017**

**First place regional mathematics competitions 2017, Puerto Rico, February 2017**

**Recognition as a “National Hispanic Scholar” in the (NHRP) College Board program, 2016**

A recognition of the highest scores on the "College Board" exam for high school students with a GPA higher than 3.5

**Awards for outstanding performance in 4 types of engineering activities, Pre-engineering UPRM, June 2016**

**Participated in the “Sixth Pre-calculus competition in UPRM”, April 2016**

One of the few high school students, to compete among the university students in this competition

**Catalina Morales De Flores High School, honor roll, April 2016**

## Abilities

Dominate two languages (Spanish and English). Skill with computer and experienced with its components. Experience as leader (Head of Project in UPRM engineering camp). Useful solving conflicts and handling complex situations. Familiar with: Excel, Minitab, AutoCAD, MATLAB, Lingo and Python.

# Rosa M. Laureano Marrero

Cellphone: (787) 446-5443 Mayagüez, Puerto Rico 00680  
[rosa.laureano@upr.edu](mailto:rosa.laureano@upr.edu)

---

## Education

- *University of Puerto Rico, Mayagüez Campus (2018 – Present)* *Expected Graduation:*  
May 2023  
Industrial Engineering Bachelor (3.58/4.00GPA)

---

## Academic Experience

### *Ana G. Méndez University, Gurabo Campus*

- Pre-Engineering Research Summer Camp (2017-2018): took courses in math, physics and electricity.  
Lead project on The Benefits of Hydropower in Puerto Rico.

---

## Awards

- *Program for Engineering Access, Retention, and LIATS Success (E-PEARLS)(2018-Present)*  
Awarded with a scholarship, program that helps students to successfully complete study programs in all engineering disciplines founded by the National Science Foundation (NSF).
- *Medal of values and virtues (May 2018)* Given by the Municipal Legislature.
- *Distinguished Student (May 2018)* Given by the Regional Representative Conny Varela.
- *Student Organization HOSA (April 2018)* First place in the competition of Career Display.

---

## Students Associations

- *American Society for Quality (ASQ UPRM)*
- *President (January 2019- May 2019)*: Coordinate and prepare workshops and activities for the benefit of members and professional in the industry through teamwork with the directive.
  - *Vice President (August 2019 – Present)*: Work and give support to the actual president.
- *American Society for Engineering Education (ASEE UPRM)(2018 - Present)*
- Part of the Outreach and School Visits Committee, consisting on promoting all branches of engineers to high school students. Worked in the Engineering Fun Day representing Industrial Engineer Department.
- *Institute of Industrial & System Engineers (IISE UPRM)(2018 – Present)*
- Active Member

---

## Skills

- Knowledge in applications such as Word, Excel, Power Point, Publisher.
- Leadership, teamwork, organized, innovative, multiple tasks, fast learning, customer service, public relations, initiative and commitment.
- Good verbal and written communication skills in Spanish language and English.
- Certified in Medical Emergencies.

---

## Community Work

- Virginia López Volunteer Center at Caguas P.R.* *August 2015 – May 2018*
- Volunteer in maintenance in non-profit activities, collecting donations, organizing events, offering art workshops visiting shelters, assistance in volunteer office and other.

---

## Honors

- National Society for Collegiate Scholars* *August 2018 - Present*
- Is an honors organization that recognizes and elevates high-achieving students. Provides career and graduate school connections, leadership and service opportunities.

---

## References

Available if requested.

# Rubén A. López González

Arraiza calle 2 #89, Vega Baja PR, 00694  
ruben.lopez8@upr.edu / (787)-328-4030

## Objective:

Aiming for a COOP/Internship that helps me grow both, professionally and personally by facing real problems where I can use my abilities to solve them in the most effective way possible as an engineering student.

## Education:

University of Puerto Rico Mayagüez Campus

GPA: 3.54

- B.S. in Industrial Engineering
- Minor in Project Management
- Expected Graduation Date: May 2022
- Relevant courses: Engineering Graphics I (INGE 3011), Algorithm (INGE 3016), ININ 4017
- Currently Coursing: Applied Static Mechanics (INGE 3031)

Colegio De La Vega, Vega Alta PR

August 2014- May 2017

- Highest average of the graduating class.
- Secretary of Jayderian Class 2016- 2017.
  - Planned events, such as fundraisers, panels, and meetings for the graduating class.
  - Responsible of making a transcript of all meetings and in this way guarantee and show that what was chosen had to be accomplished and respected.

## Associations:

- Moonbuggy Engineering Team (Project Manager)
- Engineering Pearls
  - Winner of a Scholarship.
- Institute of Industrial & Systems Engineers (IISE)
- Mayaguez Heritage Protective Society (Non-Profit Organization)
  - Corp of Volunteers.
  - Event coordinating assistant.
- Family, Career and Community Leaders of America (President)
  - Planned events to fundraise for the graduation.
  - Assisted communities with great needs.

October 2018-Present

August 2018-Present

August 2017- Present

August 2013- 2014

## Volunteer Work:

- Recycling for a better campus. (Treasurer)
  - Suggested the main idea of the project.
  - In charge of collecting materials needed to make the project possible.
  - Contacted department to get donations.

January 2019-Present

## Work Experience:

- Banco Popular de Puerto Rico – Business & Process Improvement (Summer Intern)
  - Create preauthorized roles to reduce the lead time of provisioning accesses to employees.
  - Hand in as a deliverable a documentation of the process for its duplication in any other area of the Bank.
- Watric Energy Resources (Intern)
- Santa Ana Mini-Market & Bakery (Manager Assistant)
  - Monitor customer service, dessert, and bread-making process.
  - Train all new employees in various areas of the business.
  - Approve, administer, and assess pay roll for all employees.
  - Supervise shipments and discharges of merchandise.
- Puerto Rico Plumbing Services. (Receptionist)
  - Answered phone calls and recorded messages when requested in a prompt manner.
  - Use QuickBooks to keep income and expenses up to date.
- Colegio De La Vega (Master of Ceremony)
  - Three consecutive years as master of ceremonies in annual school activities.

June 2019- August 2019

February 2019- Present

January 2016- Present

June 2015- Present

## Skills:

- **Bilingual:** English and Spanish.
- **Technological:** Microsoft Office programs, QuickBooks and basic concepts in AutoCad, BVA, Regular Expressions and SQL.
- **Sales:** Can sell any product and interact with clients so that they feel satisfied and well attended.
- **Social:** Greet, attend and set up a conversation with customers about everyday situations.
- **Problem solving:** Able to solve and deal with problems without having to reach major consequences.
- **Public Speaking:** Ability to speak in front of a varied audience.

# Mechanical Engineering

Name	Availability	
	Spring	Summer
• Adriana M. Muñoz	✓	✓
• Edmarie Sánchez Gerena		✓
• Gustavo A. Rosa	✓	✓
• Michael Hernández	✓	✓

# Adriana Marie Muñoz Soto

[adriana.munoz2@upr.edu](mailto:adriana.munoz2@upr.edu)

(787)-320-6023

## EDUCATION

---

University of Puerto Rico - Mayaguez Campus

Expected Grad: **May-2022**

B.S.—**Mechanical Engineering**

GPA:**3.66/4.00**

### RELEVANT COURSEWORK

- Creative Design 1 & 2, Engineering Mechanics: Dynamics & Statics, Engineering Graphics, Undergraduate Design Research

### TECHNICAL SKILLS

- Product Design, Product Development Process, BOM Creation, Siemens NX 11, AutoCAD, OnShape, Excel Visual Basics, MS Office Suite

## WORK EXPERIENCES

---

University of Puerto Rico, Mayaguez, Puerto Rico

June 2019

Mechanical Engineering Summer Camp Proctor

- Encouraged and supervised high school students that are interested in pursuing M.E. as a career

## PROJECTS

---

Hardware Product Sprint Program, Google Inc.

May-August 2019

### Selected Student

- Created a unique product by designing a 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 the HPS community
- Strengthened proficiency in mechanical design skills, including initial concept development, engineering design, prototyping, and device assembly

National Oceanic and Atmospheric Administration

June-August 2019

NOAA-EPP Crest Scholar

- 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

Human Centered Design Lab, University of Puerto Rico

October 2018-present

VR Design Undergraduate Research Student

- Developed a virtual reality investigation to observe the impact in decision making when done in various forms of presentations (3D, printed mold, 2D photo, Virtual Reality), using Unity with Oculus

University of Puerto Rico, Mayaguez Campus

September 2017-November 2017

Manufacturing Engineer Mentee

- Worked with Dr. Lourdes Rosario on the manufacturing process, analyzed reports and received workshops regarding the topic

## ACTIVITIES/LEADERSHIP

---

Local Church, Youth President and Treasurer

January 2016-present

- Organized events and reunions for the youth group in the church and created activity and fundraising calendars.

Local Church, Missionary

December 2018

- Planned fundraisers and searched for donations in order to provide gifts, clothes, hygiene products and supplies to various communities of low resources in Dominican Republic

## HONORS/AWARDS

---

EPEARLS Program Member

October 2018-present

- Worked with renowned university professors on engineering mentorship programs

Weekend Design Challenge

August-September 2019

- Obtained third place by creating a prototype of a water filter that will provide clean water to people that don't have stable access to it.

R2DEEP and DECEP Program Graduate

August 2016-May 2017

- acquire 16 college credits with 4.00 GPA at the University of Puerto Rico while in High School

Capstone Participant

December 2016

- Presented team project to judges at the University of Puerto Rico as a high school student



# Edmarie Sánchez Gerena

Calle D Bzn 049 Santa Rosa, Hatillo, Puerto Rico 00659  
[edmarie.sanchez1@upr.edu](mailto:edmarie.sanchez1@upr.edu) 787-399-5809

## Objective

Mechanical Engineering student seeking for a **COOP** or **internship** where I can develop my skills as a leader, coworker and professional while contributing to the company.

## Education

### University of Puerto Rico, Mayagüez Campus

BS in Mechanical Engineering  
Lean Six Sigma Yellow Belt Certification  
Minor: Project Management

**GPA: 3.52/4.00 Major GPA: 3.60/4.00**  
Expected Graduation Date: May 2022

## Work Experience

### Social Media Manager and Cashier- *Italian Pizza*

**June 2016- Present**

- Set clearly defined goals to drive major business initiatives, including increased customer retention, sales, online presence and social media traffic. Create, design and manage a Facebook page with more than 10,000 interactions. Accomplish sale's goals and achieve monthly quotas.

## Project Experience

### SAE Aero Design Team

**April 2019- Present**

#### *Project Management Department Leader*

- Manage the logistics for the team's organization. Create schedules to maintain the team informed and on road to achieve the goals
- Leading 11 team members to work on outreach activities in the STEM field
- Establish a safe environment to successfully compete at the SAE Aero Design Competition 2020

#### *Business Department Co-Leader*

- Organize and plan activities such as fundraisers and sales to cover the expenses for the competition

### SAE Aero Design Team

**October 2018- April 2019**

#### *RUM-Air Regular Class Team Member*

- Fuselage Division: worked in the fuselage manufacturing with power tools, CNC, milling machine developed designs using the **Siemens NX 12** program

#### *Project Management and Business Department Member*

- Head of Team Logistics and Competition: helped and managed the team's competition logistics and fundraising activities

## Associations

### Society of Automotive Engineers (SAE), UPRM Chapter

**March 2019 -Present**

- Competed at the SAE Aero Design West Competition 2019

### Society of Women Engineering (SWE), UPRM Chapter

**October 2018- Present**

- SWE Charity Committee: participate in service activities such as coastal cleanups

### Vocal- Children's Extreme poverty Resilience and Outreach (CERO)

**September 2018 - Present**

- Arrange and develop new alternatives to raise funds for the cause zero poverty
- Reach and impact the lives of the low-resource population

### Guidance Student- Subdivision Mechanical and Industrial Engineering

**May 2018 - Present**

- Guide, present and organize different workshops for the student community
- Lead and coordinate events for over 200 freshman students
- Work with a wide variety of Doctors in Mechanical and Industrial Engineering

### Florece y Respira PR and Scuba Dogs Society

**January 2018- Present**

- Clean the shores of Puerto Rico

## Honors and Recognitions

- Awarded with the Program for Engineering Access, Retention, and LIATS Success (ePEARLS) Scholarship by the National Science Foundation.
- Mechanical Engineering Department Honor Roll
- Engineering community Summit (EcoS) attendant

**October 2018-Present**

**2017-2018  
2018**

## Skills

- Languages: Spanish (Native), English (Fluent)
- Technical: Siemens NX 11 & 12, Data Analysis, SketchUp and Python
- Soft Skills: Microsoft Word, Microsoft Excel, Microsoft PowerPoint

# Gustavo A. Rosa Carrasquillo

Gran Vista 2 Plaza 1 Casa #9, Gurabo, P.R. 00778 • gustavo.rosa@upr.edu • Mobile: (787) 469-0770

## **OBJECTIVE**

---

Mechanical Engineering student seeking an opportunity for an **internship** or **coop** with an established, determined, honest, and purpose-driven company with scope for professional development and career exposure while benefiting the company.

## **EDUCATION**

---

University of Puerto Rico, Mayagüez Campus

Graduation Date: **May 2021**

**B.S. Mechanical Engineering**

General GPA: **3.77**

Minors: **Aerospace Engineering & Project Management**

## **TECHNICAL EXPERIENCE**

---

### **XTO Energy (ExxonMobil Subsidiary)**

**Midland, TX**

*Water Project Division - Facilities Engineering Intern*

**May 2019 - August 2019**

- Developed a strategy to rank recycle projects complexity based on Produced Water characteristics.
- Compared side by side multiple recycle processes and technologies and identified failure modes affecting performance.
- Performed a safety analysis statistical review to improve company's safety standards.

### **Motorola Solutions, Inc.**

**Fort Lauderdale, FL**

*Current Products Division - Mechanical Engineering Intern*

**May 2018 - August 2018**

- Created mechanical components and fixture designs using **Pro/Engineer (Wildfire)** and acquired knowledge and practice of **6 sigma design methodology**.
- Determined the maximum depth that APX 8000 XE radios could hold under water before a leak failure occurred using two different methods to validate the results.
- Created an Introductory Manual for the ME Department to improve its efficiency focusing on the new hire set up process.
- Designed the chassis for the CAD of a Solar Car for a group of high school students as part of Motorola's Outreach Program.

## **LEADERSHIP & EXTRACURRICULAR ACTIVITIES**

---

### **SAE Aero Design UPRM Collegiate Chapter (RUM-Air)**

*Team Captain*

**April 2019 - Present**

- In the process of managing three engineering teams, composed of a total of 45 team members, to meet the design and manufacturing goals set while providing hands-on support and guidance.
- Currently leading 12 team leaders to manage the different departments and team's logistics to successfully compete in this year's SAE West Aero Design Competition at Fort Worth, Texas.
- Currently establishing an organized and safe learning environment to improve the member's technical knowledge and soft skills while providing a space to grow professionally and personally throughout the experience.

*Project Management Department Leader*

**April 2017 - April 2019**

- Led a group of 10 team members to manage the logistics for the team's organizational structure, implement a strict project schedule, manage the team's competition logistics, elaborate a precise workshop inventory, and develop relationships with new sponsors with the purpose of enabling the team to compete in last year's SAE West Aero Design Competition.
- Raised over \$58,000 dollars, dealing with sponsors and managing multiple fundraising activities, to cover the expenses of the team's trip to the SAE West Aero Design International Competition at Van Nuys, California.
- Managed the team's competition logistics for a total of 33 team members including their air, ground and material transportation.

*Regular Class Empennage Department Team Member*

**August 2016 - Present**

- Developed preliminary and final designs of the Regular-Class aircraft using the design program **Siemens NX 12**.
- Managed the design and manufacture of the empennage for the Regular-Class aircraft.
- Designed and manufactured the carrying case for the Micro-Class aircraft.

## **SKILLS**

---

Engineering Skills: *PTC Creo, NX12, Windchill, EES, Agile, Matlab, Minitab 17, JMP, Google Earth, M.S. Office, 3D printing*

Languages: *Bilingual Proficiency in English and Spanish, Limited Proficiency in French*

## **AWARDS AND RECOGNITIONS**

---

- Dr. Andres Calderon Student Excellence Scholarship recipient **Nov 2018**
- Motorola Solutions Ambassador (University of Puerto Rico) **August 2018-Present**
- Honor Roll, Mechanical Engineering Department of the University of Puerto Rico at Mayaguez **May 2017-Present**
- Evertec's © Leadership Scholarship recipient **August 2018**
- Wesleyan Academy's Salutatorian Award (2<sup>nd</sup> Highest GPA out of 60 students in graduating class) **May 2016**

# 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 a COOP position to develop interpersonal and technical skills while acquire Mechanical Engineering experience

## Education

University of Puerto Rico, Mayagüez Campus (UPRM)  
B.S. Mechanical Engineering  
GPA 3.63/4.00

Expected Graduation Date: May 2021

## Research Experience

**Hewlett Packard Inc., COOP student in Analytical Development Solution R&D Team, Aguadilla, PR** Fall 2019

- Developing rheological material characterization methods for fluids in commercial printing applications
- Using 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
- Comparing 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 Alloy, UPRM, Mayagüez, PR** Spring 2019

- 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, State College, PA** Summer 2018

- Assessed the effects of stem cells in bones 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

**Bioremediation of oil pollutants by Fungi, UPRM, Mayagüez PR** Fall 2016 - Fall 2017

- Investigated different fungi related to mangroves, such as *Rhizophora mangle*, capable of degrading motor oil in polluted water bodies
- Chose four different possible petroleum degrading fungi to be analyzed on how fast and efficient they are at degrading oil-derived substances in order to use them as a treatment for polluted water bodies

**Pennsylvania State University Summer Research Opportunities Program, State College, PA** Summer 2017

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

## Conference Proceedings: Publication

**UE: TMS 2018 Conference Proceedings, Arizona, PX** Spring 2018

- 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** Fall 2016 - Present

- President of EMBS from January 2018 to December 2019

**Engineering Workshop, Women in Engineering – UPRM Chapter (WIE-UPRM)** Spring 2017, 2018, 2019

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

## Skills

- Engineering Design: NX (intermediate)
- 3D Data analysis: Avizo (intermediate), DaVis (basic)
- Statistical Analysis: IBM SPSS (basic), JMP 9 (intermediate)
- Programming: MATLAB (intermediate)
- Fluent in Spanish and English writing and speaking

# Software Engineering

Name	Availability	
	Spring	Summer
• Chaliana Rolón	✓	✓
• Javier A. Ortiz García		✓
• Steven A. Ramírez		✓
• Valerie Reyes Ortiz	✓	✓
• Yeran L. Concepción	✓	✓

# Chaliana Rolón Ojeda

Hato Tejas, 31 Abra Estrecha, Bayamón P.R. 00961 | chaliana.rolon@upr.edu | (787)-504-7373

**LinkedIn:** chaliana-rolon-ojeda | **GitHub:** anarolon

## OBJECTIVE

To obtain an **internship experience** in software related fields to enrich my skills and development as a student and future professional engineering career.

## EDUCATION

**University of Puerto Rico – Mayaguez Campus**

*Expected Graduation Date:* **May 2022**

Bachelor's in **Software Engineering**

G.P.A.: **3.50/4.00**

**Relevant Coursework:** Data Structures, Advanced Programming, Foundations of Computing, Introduction to Software Engineering, Programming Languages, Probability and Statistics, Computer Architectures I

## EXPERIENCE

**General Electric Renewable Energy, Spring/Summer 2019 Intern/Co-op**

Añasco, P.R.

*Programmer*

Jan 2019 – Aug 2019

- Contributed in the development of an inventory reduction desktop application that aims to reduce inventory costs by \$500k using Java
- Developed an Issue Tracker desktop application to aid Human Resources manage conflicts between employees using Java
- Designed and created Graphical User Interfaces using Java FX, Scene Builder with FXML and CSS
- 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 Mayaguez**

Mayaguez, P.R.

*Programmer*

Aug 2017–Dec 2018

- 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.
- 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
- Tools:** Unity Game Engine, C#, Visual Studio

**Facebook University for Engineers Internship**

Menlo Park, CA

*Mobile Application Developer*

June 2018 – Aug 2018

- 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

## EXTRACURRICULAR ACTIVITIES

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

Oct 2018 – Present

- Participating in career mentoring, soft-skills training, research opportunities, internship/COOP 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.

**National Honor Society- Member**

Feb 2016 – May 2016

- Promoted social integrity through a series of activities that reinforced the pillars of which the society stands for, which are: **service, character, leadership, and scholarship.**

## ACCOMPLISHMENTS

- Engineering EPearls Scholarship Recipient Oct 2018 - Present
- Honor roll student of the Computer Science and Engineering Department Spring 2018 – Present
- Published a short story in the third book of the Smaeralit Organization, selected among worldwide participants. Fall 2016

## SKILLS

- Knowledge of:** Unity Game Engine, Eclipse IDE, Visual Studio, XCode IDE, MySQL, Microsoft Word,
- Other Programming Languages:** Python
- Bilingual: Spanish/English
- Creative Writing

---

# Javier A. Ortiz García

Software Engineer Student

github.com/jaortiz117  
linkedin.com/in/jaortiz117  
(939) 639-6057

javier.ortiz13@upr.edu, jaortiz117@gmail.com  
Expected graduation date: **May, 2021**  
GPA: **3.85 out of 4.00**

## EDUCATION

### Universidad de Puerto Rico Recinto de Mayagüez - *Software Engineering*

August 2016 - Present. Courses Taken: Data Structures, Advanced Programming, Programming Languages, Software Engineering Introduction, Human Perspective in A.I.

## EXPERIENCE

### Chevron Corporation - *Software Engineer Intern*

May 2019 - August 2019

- Added functionality for a validated assistance employee to securely edit a users information when requested within Chevron Business Point eCommerce platform. Edited SAP hybris extensions using the Java programming language and the Spring framework to achieve this functionality.

### MedWave Care, Rio Piedras PR - *Full Stack Development Intern*

June 2018 - July 2018

- Implemented a responsive doctor dashboard, where a user can contact patients, view information or have a video call with them. Used React, Django and SQL to create a REST API to manage data between front-end and back-end and achieved a working dashboard to be used on production.

### Moonbuggy Engineering Team, Mayagüez PR - *Telemetry Leader*

February 2017-PRESENT

- Lead the design and implementation of a web based data gathering system. Using a server-side NodeJS application to request data from an SQL database on a Raspberry Pi, also using the Angular framework to create a user-friendly UI, achieved a data telemetry system used in the NASA Human Exploration Rover Challenge.

### Puerto Rico Robotics Association, Mayagüez PR - *Programmer*

May 2018 - PRESENT

- Created an autonomous robotic system for the Vex International Robotics Competition. Using C and skills such as PID and sensor data analysis, created an autonomous competition robot that can detect objects around it and move to specific locations.

## PROJECTS

### Visual Server Programming Language

Spring 2019

- Developed the parser and intermediate code for programming language used to simplify the creation of servers for Internet of Things devices.

### Crime Rate Predictions Using A.I. and Open Data

May 2018

- Built the User Interface for Hackathon project that won 2nd place in the Edublock Restart Week Hackathon 2018 with this project using Python and basic Machine Learning concepts.

### Car Dealership API

Fall 2018

- Developed a backend API (Application Programming Interface) using Java to manage different cars and customers in a dealership.

### The Future of Mechanical Prosthetics: Electromyogram Controlled Extremities

Spring 2016

- Used Arduino microcontrollers and an Android app interface to create a gesture controlled robotic arm which won 4th place at the Intel International Science Fair in "Robotics and Intelligent Machines".

## PROGRAMMING SKILLS

- Advanced: Java, Python, HTML
- Web Development Frameworks: Angular, Spring, SAP Hybris, React, Django, NodeJS
- Other Languages (basic knowledge): Javascript, C, C++, CSS

## RECOGNITIONS

- Member of The Program for Engineering Access, Retention, and LIATS Success (PEARLS)

# Steven A. Ramírez Rosa

Email: steven.ramirez3@upr.edu Cell phone: +1 (787) 459-4845

LinkedIn: linkedin.com/in/steven6798 Portfolio: stevenramirez3.wixsite.com/portfolio

## OBJECTIVE

---

To acquire a research opportunity related to robotics for the summer of 2020.

## EDUCATION

---

University of Puerto Rico, Mayaguez Campus (UPRM)  
Bachelor of Science in Software Engineering

Expected Graduation: Dec 2021  
GPA 3.37/4.00

## PROFESSIONAL EXPERIENCE

---

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

#### Project Manager

(August 2019-Present)

- Planning and coordination of the ePEARLS mentors project.
- Manage the communication of professional opportunities.
- To help manage the program until I graduate.

#### Mentor

(March 2019-Present)

- Mentor of 8 undergraduate students of the ePEARLS program.
- Received Peer-Led Team Learning (PLTL) training.
- Developing strategies and resources to guide my students in achieving their academic goals.

### Student Design Competition (SDC), UPRM

#### Computer and Electrical Departments Leader

(August 2019-Present)

- Developing the software and hardware designs and requirements.
- Mentoring and delegating work to the members of both departments.
- Applying PLTL to accomplish that every member applies their design to the official robot.

#### Computer Engineer

(August 2018-August 2019)

- Developed the software for the robot coding in C++ with Arduino Software.
- Cooperated in the design and troubleshooting of the hardware.
- Applied the software and hardware to the official robot.

### CTO Cloud Architecture and Technology Strategy, Bank of America

(June 2019-August 2019)

#### Cloud and Advanced Technologies Analyst

- Completed End to End Tools Governance Intake process for use of Non-Core Technology requests.
- Reconciliated EA-TEC and GCGF systems of records and fixed every GAP.
- Applied the reconciliation and prevented legally and financially repercussions for the team and company.

### Vocational Manuel Mendez Liciaga

(August 2015-May 2016)

#### Electronic Technician

- Programmed and assembled Programmable Logic Controller (PLC).
- Troubleshooted and repaired electronic equipment.
- Developed reports of every diagnostic and procedure.

## AWARDS

---

### 2019 - 2020 HSF Scholarship

(May 2019)

- Selected for the 2019 - 2020 HSF scholarship.

### 24th place 2019 ASME E-Fest North SDC

(April 2019)

- Our team designed a robot capable of securing, transporting and deploying different types of round objects.

### 1st place 2018 GM UPRM Coding Challenge

(September 2018)

- Established a team of 3 students to create a database and website for the company.

## SKILLS

---

**Object-Oriented Programming:** Java, C++

**Machine Learning:** R, Python

**CAD Design:** Siemens NX, AutoCAD

**Parallel programming:** OpenMP, MPI, CUDA

**Statistical Analysis:** R, Minitab, Excel

**Circuit Design:** OrCAD, Logisim

**Big Data tools:** Hadoop, Spark

**Operating Systems:** Windows, Linux

**Languages:** Spanish and English

**IDE:** Eclipse, Spider, RStudio, Arduino

**Version control:** Git, GitHub, Gitlab

# Valerie E. Reyes Ortiz

Calle Betances #7, Coamo, P.R 00769 | Phone: 787-400-9701 | valerie.reyes5@upr.edu

GitHub: <https://github.com/valeriereyes5>

---

## Education

University of Puerto Rico, Mayagüez Campus B.S. in Software Engineering

GPA: 3.27/4.0

**Relevant Course Work:** Introduction to Computer Programming, Advanced Programming, Introduction to Computerized Data Processing, Fundamentals of Computing, Engineering Graphics, Calculus 1, 2 and 3, Data Structures and Circuits 1.

**Expected**

**Graduation Date:**  
May 2022

---

## Projects & Experience

**Lockheed Martin Corporation Internship Rotary and Mission Systems Summer 2019 | Orlando, FL**

- Created a VBA script that formats data into an excel sheet, traveled to various states to recollect information, developed excel skills like COUNTIF, FILTERS, and MACROS. Also, worked with the data entry process.

### UPRM HACKS KIDS

**April 2019 | Mayagüez, PR**

- Recruited, managed and taught a group of mentors to prepare them to help me teach middle school students to learn programming with Scratch. Also, I helped manage and prepare the activity.

### UPRM SUMMER HACKS

**July 2018 | Mayagüez, PR**

- Mentored 60 high school students to develop an app using App Inventor. Also, assisted in the management of sensitive information.

### ADVANCED PROGRAMMING CLASS PROJECTS

**2017-2018 | Mayagüez, PR**

- Minesweeper - Modified the provided source code to reveal adjacent squares with their corresponding numbers when a square is clicked, right-click flag feature, random distribution of bombs and game over feature.
- Mega Man - Added and fixed features to the provided source code like debugging commands, implementing new levels, enemies and obstacles.

### INTRODUCTION TO PROGRAMMING CLASS PROJECTS

**2017-2018 | Mayagüez, PR**

- Developed a program, using python, capable of reading the bank's historical data, then generate a report from that data and create a file with a list of customers and their bank information.
- 

## Skills

- Programming languages: Java, Python, and VBA
- Basic knowledge in: Matlab

- Oral and written proficiency in both English and Spanish
- 

## Activities, Awards & Societies

- Member of the Institute of Electrical and Electronics Engineers **2018 - present |** Mayagüez, PR
- Member of the National Society of Leadership and Success **2018 - present |** Mayagüez, PR
- Great Minds in STEM Hispanic Engineer National Achievement Awards Conference **Oct 2018 |** Pasadena, CA
- Recipient of the GMIS HEENAC Lockheed Martin Corporation Scholarship **Oct 2018 |** Pasadena, CA
- Member of the Program for Engineering Access, Retention, and LIATS Success (PEARLS) **2018 - present |** Mayagüez, PR





# Yeran L. Concepción

939 454 1211 | E: [yeran.concepcion@upr.edu](mailto:yeran.concepcion@upr.edu)

HC 02 Box 4747 Sabana Hoyos, Arecibo, Puerto Rico 00688

[www.linkedin.com/in/yeran-l](http://www.linkedin.com/in/yeran-l) | [gist.github.com/YeranConcepcion](https://gist.github.com/YeranConcepcion)

## PROFILE

Hardworking Java and Python Developer enthusiastic about working with teams. Effective at working in Agile environments using SCRUM methodologies. Able to take on diverse development and debugging challenges.

## EDUCATION

**Student in Science And Computer Engineering** | *EXPECTED IN 05/2023*

Bachelor in Software And Computer Engineering

**Universidad De Puerto Rico - Mayagüez**

**GPA 3.35 | GPA Major 3.57**

## SKILLS

- Linux
- Python
- Java
- Proficient with Microsoft Word, PowerPoint and Excel
- Team leadership
- Data analysis
- Conflict resolution
- Fluent in both English and Spanish

## WORK HISTORY

### ASSISTANT

**Global Game Jam At UPRM | Mayagüez, PR**

- Monitored the advance of the Global Game Jam participants
- Organize and Schedule the event requirements
- Organized personal tasks such as setting services for the participants needs

### INSTRUCTOR

*04/2019 to 06/2019*

**UPRM Hacks! Camp & UPRM Hacks Kids! Camp | Mayagüez, PR**

- Helped students & mentored to improve their coding abilities by using the App inventor & Scratch platform
- Coached students utilizing personal projects to improve their coding abilities
- Collaborated with other faculty members to review data and organize instructional strategies to address students

## ORGANIZATIONS

### ACM-CSE UPRM

- Actual member and Directive personal of the ACM – CSE (Association for Computing Machinery, Computer Science and Engineering Student Chapter) at the UPRM

## AWARDS & COMMUNITY SERVICE

- Scholarship from The Program for Engineering Access, Retention, and LIATS Success (PEARLS)
- Member of the Ricky Martin Foundation
- Volunteer of The American Red Cross

# Surveying & Topography

Name	Availability	
	Spring	Summer
• Marlene Mendez Mendez	✓	✓

# Marlene M. Méndez Méndez

---

Hc 01 Box 4778, Camuy, Puerto Rico, 00627  
Cellphone: (787) 328-8579  
[marlene.mendez@upr.edu](mailto:marlene.mendez@upr.edu)

## Objective

---

Demonstrate my skills and knowledge to promote the development and success of the company that hire me as well as my own personal growth and success.

## Education

---

→ *University of Puerto Rico, Mayagüez Campus (2018 – Present)*      *Expected Graduation:*  
Surveying and Topography Bachelor (3.05/4.00GPA)      May 2023

## Academic Experience

---

### *Student Organization Skills USA*

- Occupational Competence Robotics and Automation Technology- First Place.
- National Competitor at National Leadership and Skills Conference – June 2018.  
(Skills USA NLSC)

### *University of Puerto Rico, Mayagüez Campus*

- Pre-Engineering Camp 2017
- Mechanical Engineering Camp 2017

## Awards

---

- *Program for Engineering Access, Retention, and LIATS Success (E-PEARLS)(2018-Present)*  
Awarded with a scholarship, program that helps students to successfully complete study programs in all engineering disciplines.

## Students Associations

---

### → *American Society for Quality (ASQ UPRM)*

Secretary (January 2019- May 2019) Work hand in hand with the president, takes the orders of each one of the meetings and the activities. Now active member of the organization.

### → *American Society for Engineering Education (ASEE UPRM)(2018 - Present)*

Active Member, part of Outreach and Schools Visits Committee. This consist on visiting high school students promoting and educating all branches of engineering offered at our institution.

### → *Society of Hispanics Professional Engineers (SHPE UPRM)(2018 – Present)*

Recently worked as a volunteer in Engineering Diversity General Expo (EDGE), Worked in the registration area, meals, and organizing the students.

### → *Students for the Exploration and Development of Space (SEDS UPRM)(2019 – Present)*

### → *Skills USA Alumni (2018-Present)*

## Skills

---

- Knowledge in application such as Word, Excel, Publisher and Power Point.
- Some knowledge in Digital Electronics, Arduino, and some knowledge on Mindstorms, etc.
- Teamwork, own initiative and leadership, organized, customer service, public relations, innovative, multiple tasks and commitment.
- Good verbal and written communication skills in Spanish language and knowledge in English.

## Communitary Work

---

### → *•University of Puerto Rico, Arecibo Campus*

- Volunteer in the academy Computer Science 4 Girls (CS4 Girls)
- Help with some of the logistics and some works with the professor

**June 2017**

**65 contact hours**

## References

---

Available if requested.