

### Profile:

Fifth year Computer Engineering student seeking a professional job, COOP, or Internship. Passionate about learning new technologies, software development and helping others with my knowledge of programming and computers. Primary areas of interest are robotics, automatization, AI, machine learning, renewable energy, and solar systems.

### Education and training:

**University of Puerto Rico, Mayagüez Campus – Mayagüez P.R.**

**Bachelor's Degree in Computer engineering – GPA: 3.40 (Expected Graduation year: 2023)**

- Relevant Courses: Circuit 1-2, Lab of Circuit, Advanced Programming (Java), Data Structure (Java), Logic Circuit, Electronics 1, Microprocessors and Embedded systems, Communication Theory, Computer Architecture and Organization and Operating Systems (C).
- Completed programming projects: Galaga, Pac-Man, Zelda, Polynomial Implementation with Arraylist, Circular Doubly Linked List and Hydrus Control System Node.
- Member of String Orchestra from UPR Mayaguez (August 2019 - Present)
- Honor Student in UPR Mayaguez (November 2020).

### Professional Experience:

**Rumarino (University Team Project) – UPR Mayaguez | 12/2021 – Present**

- Create and develop a submarine for RoboSub Competition that accomplish realistic missions through autonomous behaviors that represent real-world research and applications.
- Software and architecture developer using ROS to automate submarine.

**RumBus (University Team Project) – UPR Mayagüez | 06/2021 – Present**

- App to monitor the university buses so students can know their ETA to stops and their location.
- Working on backend development and database using Node, MQTT, MySQL and OBD devices.

**Solar District Cup (Research and Competition) – UPR Mayagüez | 01/2021 - 05/2021**

- Won 1st place with the UPRM Team in the District of Denver Division, Auraria Campus.
- Research focuses on designing and modeling optimized distributed energy systems.
- Analyzed and model PV system array, Energy Storage, Inverter placement, Power Distribution with OpenDss and the Distribution Impact System Analysis.

**Student office worker and computer technician | 12/2016 – Present (Consultant)**

**Centro de Consejería Psicosocial – Caguas, P.R.**

- Office worker, Secure Claim Facturation Program, Computer & Systems Programmer.
- Computer system maintenance, troubleshooting and Programming of PC apps.
- Installation of new equipment for offices, updated drivers and back up information.

**Installation and design of Renewable Energy System | 05/2018 - Present**

- Design of small Renewable Energy Systems for home and office.
- Installation of solar panels, battery storages and inverters.

### Skills:

- Programming languages: Java (proficient), C (knowledgeable), Python (knowledgeable), Typescript (familiar) and SQL (familiar).
- AutoCAD, OpenDss, Multisim, Filmora, ROS, LTspice and Microsoft applications.
- GitHub, GitLab, Eclipse, IntelliJ, and Visual Studio Code.
- Fluent speaking and writing of Spanish and English.
- Professional, mature, problem solving, debugging, team working and building.