Ramon J. Rosario Recci

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Motivated Computer Engineering graduate with hands-on experience in embedded systems, database design, and web development. Skilled in problem-solving, system design, and technical development. Eager to leverage technical expertise and further develop skills in real-world applications.

Education

University of Puerto Rico at Mayagüez
Bachelor of Science in Computer Engineering - Expected Graduation: June 2025

Colegio San Antonio de Padua
High School Diploma - 2015

Projects

- **IoT Temperature Station**: Designed and implemented a temperature monitoring system using ESP32 and sensors. Created a web interface for real-time data visualization.
- **UVGuard**: Developed a UV index monitoring system providing real-time sun safety recommendations using sensors, motors, and wireless communication.
- **Private Residence LAN**: Designed and installed a network communication system, transitioning from coaxial to fiber optics. Built a centralized server for digital document management.
- **Pipeline Processing Unit**: Designed and implemented stages of a MIPS microprocessor using Verilog.
- **RIVM (Miniature Vending Machine)**: Created a functional vending machine on an FPGA board, integrating components via Verilog HDL.
- **Nexo UPRM - A Centralized Web Platform for Student Organizations**: Designed and implemented an SQL database, models, installation and backup/restore scripts for a laravel web app.

Technical Skills

- Programming: C, C++, Java, Python, PHP
- Frameworks: Laravel
- Hardware Description Languages: Verilog, VHDL
- Database Systems: MySQL, PostgreSQL, ETL processes
- Embedded Systems: ESP32, Arduino, Raspberry Pi
- Computer Architecture and Digital Logic Design
- Version Control: Git
- Problem Solving, Collaboration, and Communication

Languages

Fluent in English and Spanish