ELOY RAMIREZ BENOIT

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Objective: Seeking to obtain a full time job in the field of Computer Engineering, particularly in the embedded systems/software field.

WORK EXPERIENCE

Orolia Defense and Security
Electrical Engineering Intern

Rochester, NY
Aug 2022 – Dec 2022

- Modified GPS Clock using Quartus and QSYS to add antenna sensing capabilities.
- Helped production team with setting up firmware bootstrapping station.
- Wrote and ran PPS timing tests for various advanced timing devices.

Rochester Institute of Technology
Tutor

Rochester, NY
Sep 2021 – Present

- Walk-in tutor for the Multicultural Center for Academic Success (MCAS).
- Subjects tutored for: C++, C, VHDL.

University of Rochester Laboratory for Laser Energetics
Systems Administrator Intern

Rochester, NY
Jun 2021 – Aug 2021

- Updated and managed server clusters/nodes used for high-performance computing
- Automated the process of updating and configuration by developing Asible playbooks.
- Created a Linux system from scratch, entirely from source code.

EDUCATION

Rochester Institute of Technology

Rochester, NY
Expected May 2023

Bachelor of Science in **Computer Engineering Technology**
GPA: 3.05
Dean's List: Spring 2020 – Present

RELATED COURSES

Microcontroller Systems	Multivariable Calculus	Embedded Systems Design I and II
Hardware Description Language	Digital Signals Processing	Real Time Operating Systems
Digital Systems Design	Signals, Systems, and Transforms	Web & Mobile I
Electronics I and II	Networking Technologies	
Digital Fundementals	AC + DC Circuits	

SKILLS

Hardware: Circuit troubleshooting, Circuit Analysis, Surface mount soldering, FPGA, oscilloscope, multi-meter, Circuit Schematic Design

Software: C, Arduino, C++, Nios II Software Build Tools with Eclipse, Visual Studio, Linux, Bash, Ansible, MATLAB, VHDL, Quartus II, ModelSim, Assembly, JTAG UART, RTOS

Generic Technical: Microsoft Office, quality assurance, High Impact Presentations, Fluent in Spanish/English

PROJECTS

Automation of HPC Servers:
Tasked with developing Ansible playbooks that would analyze and keep Red Hat Linux based HPC servers up to date, configured correctly, and able to be accessed so that they would be more reliable for intense simulation testing.

Building an Arduino Sensory Robot:
Designing a functional robot using the Atmega 328. The robot possessed gyroscopic sensors and was able to maneuver when obstructed.

LEADERSHIP ROLES

Latin American Student Association (LASA)
Social Media Chair

Aug 2021 – May 2022

- Create event flyers and post pictures taken at events.

Society of Hispanic Professional (SHPE)
President

Aug 2020 – May 2021

- Acted as liaison between the RIT chapter and regionals/national.
- Increased member count for university chapter after dwindling years prior.