

Objective

Junior majoring in Electrical Engineering, aiming to obtain a Summer 2022 internship that will offer hands-on experience in my field, preferably with a company that caters to humanity's everyday needs. Strong ability to sustain focus on detail-oriented tasks and enjoy finding solutions to complex problems.

Education

Florida Institute of Technology, Melbourne, FL

May 2023

Bachelors of Science in Electrical Engineering; GPA: 4.00

- Phi Eta Sigma, Tau Beta Pi, & Phi Kappa Phi Honor Societies
- Oxford Study Abroad Program (Summer 2019)

Relevant Courses: Signals and Systems, Circuit Theory 1 and 2, Electronics, Microcomputer Systems 1, Software Hardware Design, Computer Design

Skills

C++, Arduino Uno Microcontroller, Python, MATLAB, Breadboard Wiring, Multisim, Oscilloscope and Function Generator Operation, MS Office, MIT App Inventor

Soft skills: Strategic Thinking, Problem Solving, Detail-oriented, Time Management

Projects

Florida Institute of Technology, Melbourne, FL

Electro-optics

Spring 2021

- Researched the Fiber Fuse Threshold in fiberoptic cables to determine prevention methods and their feasibility
- Composed findings into a 7-page technical paper applying IEEE standards
- Presented PowerPoint overview of research to class and professor

Circuit Theory Implementation

Fall 2019, Spring 2020

- Operated digital multimeter, oscilloscope, and function generator
- Designed series and parallel RLC circuits in the real world and Multisim
 - Determined resonant frequency, the gain of the circuits, and the bandwidth
 - Verified simulations and measurements in MATLAB with mesh and node analysis
 - Produced phasor diagrams and professional graphs

Microcontroller Game Design

Spring 2019

- Designed a fully operational game of Simon with C++ and an Arduino Uno microcontroller
- Configured hardware for LEDs and debounced push buttons
- Utilized arrays, functions, and register-level bit operations
- Maintained safe resistance values (330 Ω for LEDs, 10 k Ω for push buttons)

Leadership Experience

Florida Institute of Technology, Melbourne, FL

Treasurer, Tau Beta Pi

June 2021 – Present

- Coordinate the submission of Florida Zeta's Financial Report

Tutor, Academic Support Center

Feb 2020 – Present

- Guide college students in learning Physics, Computer Design, and C++

Treasurer, Rotaract Club

Jan 2019 – Present

- Monitor the financial status of the club's account in an Excel spreadsheet
- Collaborate with Newman Club and Daily Bread charity to serve meals to college students and underprivileged groups