Chad Abboud

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EDUCATION

University of Massachusetts Lowell – Lowell, MA
Bachelor of Science in Computer Engineering Anticipated May 2024
Master of Science in Computer Engineering Anticipated May 2025
Minor in Mathematics
GPA: 3.142 Dean's List

Course Work: Field Programable Gate Arrays, Operating Sytems, ADS Hardware Design, Circuit Theory I & II, Math Structures for Computer Engineers, Logic Design, ECE Application Programming, Data Structures, Electronics I & II, Signals and Systems, Microprocessors I & II

SKILLS

Scripting Languages: C, C++, MATLAB
Lab Equipment: Oscilloscopes, Function Generator, DC Power Supply, Multimeter, Analog Discovery 2, Soldering Iron, Digital Multimeter, 3D Printing
Operating Systems: Mac OS, Windows
Software: Waveforms, Multisim, LTSpice, SolidWorks
Microsoft Tools: Excel, Word, PowerPoint

PROJECTS

Phase Difference Spring 2022

- Developed MATLAB code to successfully identify points on each waveform with the ability to perform calculations to determine the phase difference between two waveforms with a 95% accuracy.
- Constructed a circuit and exported CSV file measurements taken with the Analog Discovery into MATLAB.

Water Detector Fall 2021

- Designed a water detector system that detects water on a flat surface and numerous depths using LED's and probes, applied an audible alarm that would sound when a critically set depth was reached (could be changed based on user preference).
- Tested the design and corrected errors by researching for more useful components to be added into the circuit.

WORK EXPERIENCE

Cleo Robotics – **Seaport Mass Robotics - Boston, Massachusetts** May – April, 2023
Summer Engineering Intern

- As an Engineering Intern at Cleo Robotics, a contribution made to the entire team was the design and implementation of an enhanced organized sub-assembly system. This system facilitated the efficient and rapid construction of drones, ultimately reducing assembly time.
- This achievement was made possible by leveraging skills such as effective time management, a keen organizational perspective, proficiency in soldering, and the application of other relevant capabilities.
- During the time at Cleo, multiple responsibilities were assigned, including the production and implementation of various methods to refine drone assembly efficiency and the repair of damaged drones.
- The outcomes achieved stemmed from the utilization of tools such as SolidWorks and 3D Printing, as well as the capacity to multitask and the acquisition of other pertinent skills necessary to accomplish the assigned tasks.

CAMPUS INVOLVEMENT

Institute of Electrical and Electronics Engineers (IEEE) January 2023 – Present
University of Massachusetts-Lowell Club Rugby September 2022 – Present

- Committed to four weekday practice sessions.