Luke Anderson

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Technical Skills

Languages: C/C++, MIPS Assembly, Python, GoLang, Java, HTML/CSS, JavaScript, PHP, SQL
Developer Tools/Skills: Fusionn360, Code Composer Studio, Arduino IDE, Soldering, Breadboard Protyping, Circuit Design/Analysis, Embedded System Design

Projects

Ultrasonic Range Finder | *Fusion360, C* Jan. 2025 - Apr. 2025

- Assembled a PCB that uses an ultrasonic sensor and MSP430 to display distance from an object to an LCD
- Designed schematic and PCB in Fusion360 with part downloaded from Ultra Librarian
- Prototyped components on breadboard and wrote driver code in C through Code Composer Studio

ESP32 Bluetooth Controlled Light | *Fusion 360, C, Firebase* Feb. 2025 - Current

- For this personal project, I am designing a Bluetooth controlled LED with the ESP32
- Utilizing Fusion 360 to reduce space usage by 60% from prototyping board
- Using Firebase header library to pull latest color data and ensure 100% accuracy for user

MSP430 Chronometer | *C* Feb. 2025

- Utilized MSP430 and C to design and implement a stop watch on the LCD screen
- Developed solution to button de-bouncing to increase accuracy of buttons by 60%
- Designed to user timers and interrupts to reduce power usage by 90%

Experience

Software Engineer Jul. 2024 – Present
Necival LLC. *Remote*

- Developing a cryptocurrency trading systems using GoLang
- Aid in developing and deploying various software projects

Software Engineer Intern Jan. 2024 – Jul. 2024, Jan. 2025 – Present
Airmeez Inc. *Remote*

- Developed RESTful APIs in GoLang for data transfer with the main server
- Integrated new APIs with VoIP and telecom devices
- Currently utilizing C++ to facilitate communication with telecom servers and extend SoundHound AI connection times

Undergraduate Research Assistant Aug. 2023 – Sep. 2024
University of Central Florida *Orlando, FL*

- Modified quantum circuits using Qiskit and fed data to a neural network using TensorFlow
- Implemented Python scripts to enhance input/output data handling
- Collaborated on research via GitHub

Education

University of Central Florida Orlando, FL
Bachelor of Science in Honors Computer Engineering, Minor in Physics, GPA: 3.73 *Aug. 2022 – May 2026*

St. Petersburg College St. Petersburg, FL
Associate's of Liberal Arts *Aug. 2020 – May 2022*

Relevant Coursework

Computer/Electrical Engineering: Linear Circuits 1 and 2, Digital Systems, Computer Organization, Computer Architecture, Electronics 1, Computer Communication Networks, Embedded Systems(IP), Junior Design(IP)
Computer Science: Introduction to C, Data Structures and Algorithms (Computer Science 1 and 2), Introduction to Object Oriented Programming, Introduction to Discrete Structures, Quantum Information Sciences, Operating Systems, Processes of Object Oriented Software Developement(IP)