

# Luke Anderson

727-947-0370 | [lu097697@ucf.edu](mailto:lu097697@ucf.edu) | Portfolio Website: [https://landerson7.github.io/portfolio\\_website/](https://landerson7.github.io/portfolio_website/)

## EXPERIENCE

### Software Engineer Intern

May 2025 – Aug. 2025

*Lutron Electronics Company*

*Austin, TX*

- Built cross-platform mobile features using **Kotlin** and **Jetpack Compose** for **Lutron's** smart lighting **app**
- Collaborated in an **Agile** team environment, leveraging **Jira** for sprint planning, task tracking, and iteration
- Adhered to software engineering best practices by implementing **unit tests**, contributing to **design documentation**, and participating in **code reviews**

### Project Manager & Embedded Software/Firmware Engineer

Aug. 2025 – Apr. 2026

*P.E.G.A.S.U.S.*

*Orlando, FL*

- Utilizing **Jira** and **Agile/Scrum** project management style to manage my groups **Senior Design** project
- Programming in **C/C++** to read **flight sensor data** on an **ESP32** and create a GUI on a **Raspberry Pi4**
- Leveraging **SPI** for GUI line and **I2C** for sensor line for accurate processing

### Software Engineer Intern

Jan. 2024 – Jul. 2024, Jan. 2025 – May 2025

*Airmeez Inc.*

*Remote*

- Developed **RESTful APIs** in **Go** for data transfer with the main server
- Aiding in **migrating** legacy architecture to new **microservice architecture** using **Docker** for containerized development
- Utilizing **C++** to facilitate communication with telecom servers and extend **SoundHound AI** connection times

## PROJECTS

### Pilot Enhanced Guidance and Augmented Sight Utility System (PEGASUS)

Aug. 2025 - Apr. 2026

- \* In the research phase of the development of a **heads-up display** for airplanes
- \* Using multiple MCUs to read, calculate, and display peripheral sensor data in **real-time**
- \* Programming in **C** for real-time data processing and **C++** for GUI display on HUD

### 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**

### Fit Link | *MongoDB, Express.js, Node.js, React Native, Google Cloud, Jest, Swagger*

Mar. 2025 - Apr. 2025

- \* Built a full-featured **back-end** for a personal trainer client management software in **Node.js** using **Express**
- \* Configured **Google Cloud** for **OAuth** and Calendar API connection to allow a **cross platform** user experience
- \* Utilized **Jest** for automated unit testing and ensure **100%** success of all APIs
- \* Developed **documentation** using Swagger API docs that run on the hosted server

## TECHNICAL SKILLS

**Languages:** C/C++, Python, GoLang, Java, HTML/CSS, JavaScript, MIPS Assembly, PHP, SQL, Kotlin, SwiftUI

**Developer Tools/Skills:** Fusion360, Ubuntu (Linux), Code Composer Studio, Arduino IDE, Soldering, Breadboard Prototyping, Circuit Design/Analysis, Embedded System Design, VLSI Analysis/Design

## RELEVANT COURSEWORK

**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 Development, Robot Vision (IP)

**Computer/Electrical Engineering:** Linear Circuits 1 and 2, Digital Systems, Computer Organization, Computer Architecture, Electronics 1, Computer Communication Networks, Embedded Systems, Junior Design, Computer Aided Design of VLSI (IP)

## EDUCATION

### University of Central Florida

Orlando, FL

*Computer Engineering B.S. Comprehensive & VLSI Track, Minor in Physics, GPA: 3.8*

*Aug. 2022 – May 2026*

### St. Petersburg College

St. Petersburg, FL

*Associate's of Liberal Arts, GPA: 3.8*

*Aug. 2020 – May 2022*