



Career Objective

I am junior pursuing a summer 2024 internship in the aerospace and defense industry to grow my skills in software development, hardware design, and sustainability.



Education

B.S. in Computer Engineering Concentrated in Machine Intelligence

Florida Polytechnic University

Graduation: May 2025 | GPA: 3.5



Industry Skills

- C & C++ Programming
- Proficiency in HTML & CSS for Web Development
- Proficiency in Swift & SwiftUI for IOS App Development
- PCB Design & Fabrication
- Proficiency in Verilog Programming for FPGA's
- CAD (Fusion 360, Eagle CAD, SolidWorks, MatLab)



Projects & Work Experience

Software Developer: IOS App Development

Mar. 2023 → Current

- Actively developing an IOS app for athletes and personal trainers in the fitness industry.
- Features an expandable exercise library used to create custom programs with growth-focused analytics.

Skills Applied:

- Foundational skills in Swift and SwiftUI for developing UI/UX
- Designing back end app architecture

Computer Engineer: Verilog Military Stopwatch

Nov. 2022 → Dec. 2022

- Designed a fully functional military style stopwatch using Verilog, a hardware description language.
- The software was written at the transistor level using Verilog and deployed to an FPGA.

Skills Applied:

- Foundational skills in Verilog programming and FPGA usage for prototyping
- How to design a complex computer system at the transistor level

Hardware Engineer: Open Source Keyboard Design Project

Nov. 2020 → Feb. 2021

- Designed a fully functional computer keyboard driven by an ATMEGA32-U4 mounted on a custom PCB.
- PCBs were outsourced to JLCPCB, components were soldered by hand, and the software was written in C++.

Skills Applied:

- PCB design, fabrication, and optimization
- C++ programming and optimization

Entrepreneur: Manta Fin Co.

Sep. 2019 → May 2020

- Identified opportunities in the surf industry for sustainable equipment alternatives.
- Worked on founding an LLC that manufactures high performance surfboard fins from up-cycled ocean plastics.

Skills Applied:

- Fins designed in Fusion 360, CFD in SolidWorks, rapid prototyping with 3D printing & CNC milling
- Basic business management practices



Leadership Positions

- Provosts List for Academic Standing
 - Sustained semesterly GPA of 3.5
- MCLA Div. II Lacrosse Captain 2021-2022
 - Attack Captain for FPU mens lacrosse
- Youth Ambassador to Parley for the Oceans
 - Alumni of inaugural Ocean Uprise Summit
- Student Government Director of Internal Affairs
 - Serving in the SGA Executive Cabinet



To learn more visit: langtowl.com