



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

Pursuing a B.S. in Computer Engineering Concentrated in Machine Intelligence
Florida Polytechnic University
Expected Graduation: May 2025
GPA: 3.5



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



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)



To learn more visit: langtowl.com