Lang Towl
Computer Engineer

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Career Objective

I am a rising 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 Electric & Autonomous Vehicles
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 IOS app development
    - App design and front end/back end development

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)

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