

Education

B.S. in Computer Engineering concentrated in Machine Intelligence
Florida Polytechnic University
Graduation: May 2025 | GPA: 3.58

Work Experience

Front End Software Developer: Duke Energy Intern

May 2024 → Aug 2024

- Interned with the Lighthouse department of Duke Energy building PWA's in Angular JS
- Collaborated with the front-end team building features into an extensive code base

Skills Applied

- Angular JS, HTML, SCSS, TypeScript, Git, & Jira Task Management
- Product development, project road-mapping, & source control

Projects

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 full stack app architecture

Computer Engineer: Verilog Military Stopwatch

Nov. 2022 → Dec. 2022

- Designed a fully functional military style stopwatch using Verilog Hardware Description Language
- The software was written at the transistor level using Quartus Prime 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 firmware was written in C++

Skills Applied

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

Environmental Conservation: Youth Ambassador - Parley for the Oceans

Aug. 2019 → May 2021

- Worked within an international team of youth activists on several environmental initiatives
- Projects included beach cleanups, documentary series, and R&D for sustainable fishing equipment alternatives

Skills Applied

- Small team/project management within a large international organization
- Experience developing and presenting pitch decks to project managers

Entrepreneur: Manta Fin Co.

Sep. 2018 → May 2019

- 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

Industry Skills

- C & C++ Programming
- Angular JS, TypeScript, S/CSS, & HTML
- Swift & SwiftUI
- Python, Matplotlib, Pandas, & Numpy
- PCB Design & Fabrication
- Proficiency in Verilog Programming for FPGA's
- CAD (Fusion 360, Eagle CAD, SolidWorks, MatLab)
- SciKit Learn & Jupyter Notebooks for Machine Learning Applications

Leadership Positions

- FPU VP of Student Government
- FPU Dir. Internal Affairs 2022 -2024
- Provosts List for Academic Standing
- MCLA Div. II Lacrosse Captain 2021-2022

Visit langtowl.com to learn more