

William Fairman

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Apt 104

Fort Pierce, FL 34949

EDUCATION

- Florida Atlantic University Boca Raton FL Aug 2025**
PhD in Electrical Engineering – GPA 4.00
- Florida Atlantic University Boca Raton FL May 2023**
MS in Electrical Engineering – GPA 4.00
- Olin College of Engineering Needham MA December 2021**
BS in Electrical and Computer Engineering – GPA 3.87

EXPERIENCE

- Harbor Branch Oceanographic Institute Graduate Research Assistant January 2022 – Present**
- Work on electrical, software, and mechanical aspects of several on-going research projects in the System and Imaging Lab (SAIL).
- Florida Atlantic University Marine Renewable Energy REU intern Summer 2021**
- Developed an automated drone charging platform controlled by a self-designed circuit board.
- Intel SoC Pre-Silicon Validation Intern July 2020 – December 2020**
- Used the Verdi Coverage tool to provide Verilog coverage analysis for a SoC IP.
- Kuva Systems (MultiSensor Scientific) Electrical and Computer Engineering Intern Summer 2019**
- Developed C code, Python scripts, and Verilog code for interfacing with a variety of sensors, ARM microcontrollers, and FPGAs on an infrared camera module.
- Olin Electric Motorsports - FSAE Electric Sensors Lead September 2017 – June 2019**
- Designed and tested printed circuit boards for high and low voltage systems.
 - Wrote embedded firmware for AVR chips (Atmega16M1 & 328P).

PROJECTS

- Coaxial Copter Summer 2023 – Present**
- Developed a NDAA compliant, waterproof 1.5kg drone with a fully 3D printed thrust vector control mount.
- Biomass Sensor Spring 2022 – Present**
- Developed and manufactured a novel IoT algae biomass sensor.
 - Created a custom circuit board and wrote embedded software to control the sensor.
 - Designed and manufactured a 3D printed, waterproof housing.
- Quad Copter Fall 2020 – Spring 2021**
- Designed a flight computer powered by a STM32 processor with a GPS, IMU, magnetometer, and barometer sensor suite.
 - Designed a 3D printed drone chassis using Fusion 360's Generative Design tool.

SKILLS

Software/Programming

Python, KiCad, Verilog, C, Matlab, Git, Fusion 360, Solidworks

Machine Skills

Basic machinery, CNC Router, 3D Printer, Laser Cutting