

Logan Burns

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EDUCATION

Bachelor of Science in Electrical Engineering

University of Florida, Gainesville, FL

GPA: 3.91

Relevant Completed Coursework:

- EEL4837 Programming for EE 2
- EEL4712C Digital Design
- EEL4744C Microprocessor Applications

August 2024-May 2028 (Planned)

SKILLS AND ACHIEVEMENTS

Technical Skills: C, C++, Zig, Python, Altium, Quartus, VHDL, SystemVerilog, QuestaSim, Cadence, Quartus, FLiR SDK

Certifications:

- UF_EHS809_OLT – Hazardous Waste Management

Awards:

- FOCUS lab REU award recipient

RESEARCH / INTERNSHIPS

Research Assistant, UF Human Systems Engineering Lab

Gainesville, FL

January 2025 – May 2025

- Assistant in conducting experimental trials and data analysis regarding the impact of method of driver education in human interactions with vehicular automation.

Research Assistant, UF Florida Optics and Computational Sensor Lab

Gainesville, FL

September 2025 – Current

- Assistant in quantifying the performative advantages of Foveated imaging techniques over traditional mechanical pan-tilt-zoom camera assemblies in power limited robotics systems.

ORGANIZATION INVOLVEMENT / LEADERSHIP

Member, Semiconductor Readiness Organization

Gainesville, FL

September 2024 – Present

- MOSCAP fabrication at the Summer 2025 Fabrication Lab at the Nanoscale Research Facility.
 - Conducted Dry Oxidation, spin-coating, photolithography, HF-based wet etching, PVD (Sputtering).

Peer Instructor, EEL3701C, EEL4744C

Spring 2026 – Present

- Active maintainer of Course Documentation and Lab Materials, as directed by Dr. Schwartz.
- Ensured ADA Compliance of Lab course content.
- Advised other Peer Instructors to minimize miscommunication between students and instructors.

DESIGN TEAM EXPERIENCE

Member, UF Machine Intelligence Laboratory

Gainesville, FL

January 2026 – Current

- Designed and built the leak detection system for Subjugator 9