Gator E. Engineer

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EDUCATION

Bachelor of Science in Electrical Engineering **May 2025**
University of Florida, Herbert Wertheim College of Engineering | **Cumulative GPA**: 3.75/4.00
Honors: Tau Beta Pi Engineering Honor Society, Eta Kappa Nu National Electrical Engineering Honor Society

TECHNICAL SKILLS

Languages: MATLAB, C++, Python, Verilog, Ladder Logic, ARM Assembly
Software and OS: Altium Designer, AutoCAD, LabVIEW, Linux, Microsoft Office Suite, PSpice
Additional: Digital Circuit Design, Microcontroller Programming, PCB Design, Soldering
Certifications: Fundamentals of Power Systems, Introduction to IoT, Project Management Fundamentals

PROFESSIONAL EXPERIENCE

Undergraduate Research Intern **May 2024 – Present**
Sandia National Laboratories | Albuquerque, NM

- Designed and simulated high-speed digital circuits for signal processing applications in defense technology
- Developed a test automation framework using Python to streamline hardware validation processes
- Assisted in the integration of FPGA-based control systems for energy-efficient power grid management

Embedded Systems Intern **June 2023 – August 2023**
Lockheed Martin | Orlando, FL

- Developed firmware for real-time control systems using C++ and Verilog to improve aerospace component efficiency by 15%
- Designed and tested embedded software for motor control applications in avionics systems
- Conducted system debugging and validation through hardware-in-the-loop simulations

PROJECT EXPERIENCE

Senior Design Project: Smart Power Monitoring System, Team Member **September 2023 – May 2024**

- Designed and implemented an IoT-enabled power monitoring system to optimize energy usage in residential settings
- Developed a cloud-based dashboard using Python and Flask to visualize real-time energy consumption data
- Integrated sensors with microcontrollers to collect and process power consumption metrics

Junior Design Project: Automated Greenhouse Control System, Team Leader **January 2023 – May 2023**

- Led a team of four engineers to develop an automated greenhouse system regulating temperature and humidity
- Utilized PID controllers and microcontrollers to manage environmental conditions efficiently
- Designed a user-friendly interface for real-time monitoring and control of greenhouse parameters

LEADERSHIP AND INVOLVEMENT

President, UF Women in Electrical and Computer Engineering **August 2024 – Present**

- Spearheaded initiatives to promote diversity and inclusion within the electrical and computer engineering community
- Organized workshops and networking events to connect students with industry leaders and alumni

Student Assistant, UF Career Connections Center **August 2023 – Present**

- Provided resume critiques and career guidance to engineering students seeking internships and job opportunities
- Organized networking events with industry professionals to enhance student engagement in career development
- Managed website content updates using WordPress to ensure timely delivery of job postings and career resources

Project Coordinator, Engineers Without Borders **January 2022 – May 2023**

- Led a team of six in designing and implementing sustainable energy solutions for rural communities in South America
- Conducted fundraising initiatives, raising over $3,000 for project implementation and travel expenses
- Collaborated with local partners to ensure projects met community needs and technical feasibility