Tyler Anderson

407-653-5052 | andersontyler663@gmail.com | linkedin.com/in/tyler-jordan-anderson

EDUCATION

FAMU/FSU College of Engineering   Tallahassee, FL
Bachelor of Science in Computer Engineering   *Expected May 2026*

EXPERIENCE

Information Technology Intern   Aug. 2024 – Mar. 2025
Cornerstone Concilium   *Remote*
- Developed and maintained **5+** dynamic web applications, improving user experience by **25%**.
- Reviewed **15+** RFPs to ensure technical alignment with client requirements.
- Collaborated using Agile practices to streamline workflows and improve team efficiency.

Participant   Jun. 2025 – Aug. 2025
Bloomberg Tech Insights – Software Engineering Program   *Remote*
- Strengthened C++ skills through advanced data structures/algorithms and performance optimization.
- Explored financial-system engineering workflows and prepared for large-scale technical interviews.

PROJECTS

Two-Wheeled Self-Balancing Robot | *C/C++, IMU (gyro/accel), PID, Arduino*   Jun. 2025 – Present
- Designed a feedback control loop integrating IMU sensor fusion with tuned PID gains.
- Implemented motor driver control and timing-critical routines on Arduino.
- Implemented continuous IMU input processing with real-time PID adjustments to maintain upright stability.

Stepper Motor Control Simulation | *C, MSP-EXP430FR5994, Timers/Interrupts*   Apr. 2025
- Simulated bipolar stepper half-step sequencing with 4-LED output.
- Achieved precise step rates of **1 Hz** and **1 RPM (0.167 Hz)**.
- Interrupt-driven design improved power efficiency by **40%** over polling.

Arithmetic Logic Unit (ALU) Design | *Verilog, DE1-SoC FPGA*   Mar. 2025
- Designed/simulated a 4-bit ALU supporting **12** arithmetic/logic operations.
- Integrated I/O via switches, pushbuttons, and 7-segment display.

AI Tool Analysis & Implementation | *Copilot 365 vs. ChatGPT*   Feb. 2025
- Compared enterprise use cases; projected **30%** productivity gains via automation.
- Delivered **5+** demos to leadership, influencing adoption strategy.

LEADERSHIP & EXTRACURRICULAR

Treasurer   Apr. 2025 – Present
National Society of Black Engineers, FAMU-FSU Chapter   *Tallahassee, FL*
- Managed and allocated a **$7,500** budget for events and conferences.
- Secured **$1,500+** in sponsorships through targeted outreach.

President & Treasurer   Jun. 2022 – Jun. 2025
Society of Blacks in Computing   *Tallahassee, FL*
- Managed **$10,000** budget; reduced costs by **20%**.
- Increased membership by **30%** and organized **10+** professional workshops.

Treasurer & Brother   Mar. 2023 – Present
Alpha Phi Alpha Fraternity, Inc.   *FSU Chapter*
- Oversaw **$25,000+** in finances; streamlined reporting processes.
- Completed **400+** hours of community service.

TECHNICAL SKILLS

Programming: C, C++, MATLAB, Verilog
Tools & Technologies: Linux, Code Composer Studio (CCS), Quartus, Microsoft Office Suite
Concepts: Embedded Systems, PID Control, Data Structures & Algorithms, Digital Logic Design
Generative AI: ChatGPT, Microsoft Copilot, Google Gemini, Anthropic Claude