



Aditya Foley

Avionics Engineering Intern

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SUMMARY

Detail-oriented Computer Engineering student with hands-on experience in embedded systems and hardware integration acquired through academic projects and internships. Strong skills in C++ and C programming languages are complemented by a solid grasp of engineering principles. Proven collaboration within cross-functional teams has fostered innovative solutions in fast-paced environments. Eager to contribute talents towards driving advancements in aviation technology while supporting functional testing, hardware setup, and integration. Passionate about ensuring optimal performance and design integrity through dedicated teamwork and effective communication.

EDUCATION

Bachelor's Degree in Computer Engineering

Georgia Institute of Technology 🎓 GPA: 3.7 📅 2026 📍 Atlanta, GA

Coursework: Embedded Systems, Digital Logic Design, Circuit Analysis, Programming Fundamentals

TECHNICAL SKILLS

- **Embedded Programming Languages:** C++, C
- **Hardware Platforms:** Raspberry Pi, STM32, Arduino
- **Software Development Tools:** Git, Visual Studio Code, MATLAB
- **System Testing Tools:** JIRA, Trello, LabView
- **Documentation Standards:** Markdown, LaTeX, UML
- **Project Management:** Asana, Microsoft Project, Kanban
- **Team Collaboration Tools:** Slack, Microsoft Teams, Discord
- **Network Protocols:** TCP/IP, UDP, SPI
- **Engineering Methodologies:** Agile, Waterfall, Scrum
- **Simulation Software:** MATLAB Simulink, Altium Designer, Multisim

EXPERIENCE

Embedded Systems Developer

University Project 📅 January 2025 – May 2026 📍 Atlanta, GA

Developed prototypes and tested automation systems emphasizing hardware integration. Supported projects on subsystems with detailed documentation, collaborating closely with peers to ensure clarity and design efficiency.

- Developed a prototype for an automated drone control system using Arduino and C++ programming, achieving a functional model for navigation and obstacle avoidance.
- Collaborated with a team of engineers to create detailed wire diagrams for integrating subsystems within the drone, ensuring clarity and precision in hardware setup.
- Conducted extensive testing of the drone's subsystems to validate performance metrics and functionality against established requirements.
- Implemented troubleshooting protocols for system integration issues, improving the overall reliability of the prototype.
- Documented system configurations and test results, contributing to a comprehensive project report presented at the university's engineering fair.
- Engaged in peer mentoring, providing guidance on programming best practices and hardware integration techniques to junior students.

Electrical Engineering Capstone

University Project 📅 August 2024 – December 2024 📍 Atlanta, GA

STRENGTHS

- ✓ **Technical Skill Application**
Implemented various embedded systems functionalities during collaborative projects, gaining enhanced peer respect and trust.
- 👥 **Cross-Disciplinary Collaboration**
Worked alongside mechanical, electrical, and software teams to catalyze innovative solutions; improved project outcomes.
- 📄 **Attention to Documentation**
Maintained precise documentation of testing processes leading to streamlined discussions and improved understanding of operational tasks.
- 💬 **Effective Communication**
Simplified technical information for presentations to varied audiences, nurturing shared visions among team members and stakeholders.
- 👥 **Mentoring Peers**
Guided younger students in hardware integration processes and programming strategies, establishing a supportive learning environment.

SKILLS

C++ C Arduino Raspberry Pi
STM32 Hardware Integration
Project Management
Team Collaboration
Technical Documentation
System Testing

