

Aditya Foley

☎ (404) 555-1234 ✉ aditya.foley@example.com

🌐 linkedin.com/in/aditya-foley 📍 Atlanta, GA 30301



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

2026

Georgia Institute of Technology GPA: 3.7

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

SKILLS

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|----------------|------------------------|---------------------------|------------------------|
| • C++ | • STM32 | • Technical Documentation | • Programming Script |
| • C | • Hardware Integration | • System Testing | • Data Validation |
| • Arduino | • Project Management | • Mechanical Integration | • Design Principles |
| • Raspberry Pi | • Team Collaboration | • Troubleshooting | • Profile Presentation |

EXPERIENCE

Embedded Systems Developer

January 2025 – May 2026

University Project

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

August 2024 – December 2024

University Project

Atlanta, GA

Led the design and implementation of energy-efficient systems using smart technologies, focusing on optimization and user engagement. Collaborated extensively on multi-disciplinary projects showcasing innovation in energy management.

- Designed and built a smart home energy management system using Raspberry Pi, optimizing energy consumption and providing real-time usage data.
- Collaborated with a diverse team to ensure seamless integration of hardware and software components, enhancing the project’s functionality.
- Developed user documentation and conducted presentations to showcase the system’s capabilities and potential market applications.
- Conducted physical testing to validate system performance, gathering feedback to iterate on design improvements.
- Assisted in creating detailed reports and presentations for stakeholders, demonstrating the project’s impact on energy efficiency.
- Presented research findings at the university’s annual technology symposium, receiving positive feedback from faculty and peers.

LEADERSHIP & AWARDS

- Dean's List, Georgia Institute of Technology, 2025
- First Place, University Robotics Competition, 2024

CERTIFICATIONS

- Certified in C++ Programming 📅 2026
- Basics of Embedded Systems 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, 2024 - Present
- Volunteer, Local STEM Outreach Program, 2023 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST