Luke Acosta

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SUMMARY

Aspiring Computer Engineering professional eager to contribute skills in software development and firmware engineering. Currently pursuing a Bachelor's degree while engaging in project work that enhances technical abilities. Passionate about problem-solving and excited to collaborate with teams to create innovative solutions. Hands-on experience gained through academic projects, where effective teamwork led to successful outcomes. Further strengthened ability to write maintainable code and leverage Agile methodologies for efficient product delivery. Eager to apply programming knowledge in C, along with familiarities in diverse toolsets. Looking forward to the opportunity in a dynamic environment.

EDUCATION

Bachelor's Degree in Computer Engineering 2027

University of Texas at Dallas GPA: 3.8 *Richardson, TX*

Coursework: *Embedded Systems, Software Development, Firmware Engineering, Computer Architecture*

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, JavaScript
- **Development Methodologies:** Agile, Scrum, Waterfall
- **Operating Systems:** Linux, Windows, Embedded Systems
- **Firmware Development Tools:** Keil, IAR Embedded Workbench, MPLAB X
- **Testing Tools:** JTAG, Oscilloscope, Logic Analyzer
- **Collaboration Tools:** Git, GitHub, Bitbucket
- **Documentation Standards:** IEEE, ISO, Markdown
- **Version Control:** SVN, Mercurial
- **Software Frameworks:** QT, .NET Framework
- **IDE Tools:** Eclipse, Visual Studio, Code::Blocks

SKILLS

- C Programming
- Python
- Java
- Agile Methodologies
- Embedded Systems
- Team Collaboration
- Problem Solving
- Debugging
- Software Development
- Technical Documentation
- Software Testing
- Firmware Development
- Real-Time Systems
- Data Management
- Cross-Functional Teams
- RAID Concepts

EXPERIENCE

Firmware Development Intern

January 2026 - Present

University Project *Remote*

Working as part of a team focused on embedded systems, targeting real-world applications. Engaged in developing firmware solutions utilizing C programming to enhance product performance. Collaborated across functions to address software challenges in a structured manner.

- Developed firmware for embedded systems using C programming, enhancing functionality of ROC processor powered solutions.
- Collaborated with cross-functional teams to troubleshoot and resolve software issues in real-time systems, improving overall system reliability.
- Participated in Agile development activities, including code reviews and sprint planning, to learn best practices in software development.
- Wrote and maintained well-documented code, adhering to established engineering standards, which facilitated easier future modifications.
- Utilized development tools and testing methods to ensure high-quality software delivery aligned with project timelines.
- Engaged in continuous learning of new programming languages and tools to enhance project outcomes and personal growth.

Embedded Systems Research Assistant

September 2025 - December 2025

Academic Research *Remote*

Supported creation of data storage prototypes within an academic setting. Gained valuable insights into RAID concepts while perfecting software integration tasks alongside faculty.

- Assisted in the development of a prototype system for data storage solutions, applying RAID concepts to optimize performance.
- Conducted rigorous testing of software functionalities, documenting results and providing feedback for improvements in system design.

- Collaborated with faculty and peers to present findings at a regional conference, showcasing research on embedded system applications.
- Employed problem-solving skills to address technical challenges, contributing to successful project completion ahead of schedule.
- Gained exposure to both Linux and Windows development environments while working on software integration tasks.
- Enhanced communication skills through regular presentations and team collaborations, fostering a strong team-oriented approach.

Software Development Team Member

March 2026

Hackathon Project

Remote

Participated in a collaborative hackathon, where quick thinking and swift implementation of ideas were crucial. Developed a management application embodying core programming principles.

- Contributed to a team project aimed at developing a user-friendly application for data management, utilizing Java and Python for backend processes.
- Engaged in brainstorming sessions to generate innovative solutions, leading to a well-received application prototype.
- Worked under tight deadlines, effectively managing time and collaboration with team members to ensure project success.
- Implemented Agile practices to streamline workflow and enhance productivity during the hackathon.
- Received recognition for outstanding performance and creativity in problem-solving during the event.
- Documented project outcomes and lessons learned to guide future project endeavors.

LEADERSHIP & AWARDS

- Dean's List - Fall 2025
- Winner, Regional Hackathon - March 2026

CERTIFICATIONS

- Google IT Support Professional Certificate 2026
- AWS Academy Cloud Foundations 2026

PROFESSIONAL AFFILIATIONS

- Member, Computer Science Club - 2025-Present
- Volunteer, Tech for Good - 2025-Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST