

Aisha Khan

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SUMMARY

Detail-oriented Embedded Systems Engineer with over 5 years of experience in designing and implementing innovative solutions. Proficient in embedded C/C++, real-time operating systems, and low-level hardware programming, with a proven track record of optimizing performance and reducing costs.

EXPERIENCE

Embedded Systems Engineer

Jan 2022 - Present

Tech Innovators Inc., San Jose, CA

- Designed and implemented a power management system that reduced energy consumption by 30%, saving the company \$50,000 annually.
- Developed real-time software for an IoT device that improved data transmission efficiency by 25%, enhancing user experience.
- Collaborated with cross-functional teams to integrate complex sensor systems, resulting in a 15% increase in product reliability.

Junior Embedded Systems Engineer

Jun 2018 - Dec 2021

Smart Tech Solutions, San Jose, CA

- Contributed to the development of a vehicle control system, leading to a 20% reduction in response time.
- Assisted in the migration of legacy systems to modern embedded platforms, decreasing maintenance costs by 40%.
- Implemented automated testing frameworks that reduced testing time from 2 weeks to 3 days.

Embedded Systems Intern

Jan 2018 - May 2018

Innovative Electronics Corp., Palo Alto, CA

- Supported the design and testing of a wireless communication module, achieving a successful deployment in 90% of test cases.
- Participated in code reviews and contributed to software documentation, improving team communication and project organization.

EDUCATION

Bachelor of Science in Electrical Engineering

May 2018

Stanford University, Stanford, CA • GPA: 3.7

SKILLS

Technical Skills: Embedded C/C++, Real-time Operating Systems, Microcontrollers (ARM, AVR), Digital Signal Processing

Tools & Frameworks: Git, JIRA, MATLAB, Keil MDK