

Amina Patel

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SUMMARY

Dynamic Senior Embedded Systems Engineer with over 8 years of experience in designing, developing, and optimizing embedded systems for consumer electronics. Proven track record in leading cross-functional teams to deliver innovative solutions that enhance product performance and reliability.

EXPERIENCE

Senior Embedded Systems Engineer

Jan 2022 - Present

Tech Innovations Inc., San Jose, CA

- Led the development of a next-gen IoT device, resulting in a 30% reduction in power consumption and a \$500,000 cost saving in production.
- Implemented real-time operating systems (RTOS) for various projects, improving system responsiveness by 25%.
- Collaborated with software and hardware teams to design a new communication protocol, enhancing data transmission speed by 40%.

Embedded Systems Engineer

Jun 2018 - Dec 2021

Smart Home Solutions, Palo Alto, CA

- Developed firmware for smart appliances, increasing customer satisfaction ratings by 15% due to improved reliability.
- Optimized existing embedded systems, achieving a 20% performance improvement while reducing production time by 10%.
- Mentored junior engineers, enhancing team skills in C/C++ and embedded software development practices.

Junior Embedded Systems Engineer

Aug 2015 - May 2018

NextGen Electronics, San Diego, CA

- Contributed to the development of wearable technology, increasing functionality while adhering to strict budget constraints.
- Assisted in debugging and testing embedded systems, reducing bug reports by 35% through improved quality assurance processes.
- Participated in Agile development, streamlining project timelines and enhancing cross-team communication.

EDUCATION

Bachelor of Science in Electrical Engineering

May 2018

University of California, Berkeley, Berkeley, CA • GPA: 3.7

SKILLS

Technical Skills: C/C++ Programming, Embedded Linux, RTOS Development, Circuit Design

Tools & Frameworks: Git, MATLAB, JTAG Debuggers