

Amina Patel

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SUMMARY

Detail-oriented Embedded Systems Engineer with over 5 years of experience in developing and optimizing firmware for embedded devices. Proven ability to enhance system performance and efficiency through innovative design and implementation.

EXPERIENCE

Embedded Systems Engineer

Jan 2022 - Present

Tech Innovations Inc., Austin, TX

- Led a project that improved device performance by 30%, reducing energy consumption by 15%.
- Developed and deployed firmware updates that enhanced user experience, resulting in a 25% increase in customer satisfaction ratings.
- Collaborated with cross-functional teams to integrate new sensors, reducing product development time by 20%.

Junior Embedded Systems Engineer

Jun 2018 - Dec 2021

Smart Home Solutions, Dallas, TX

- Assisted in the development of a wireless communication protocol, increasing data transmission speed by 50%.
- Conducted testing and debugging of embedded systems, reducing defect rates by 40% through systematic troubleshooting.
- Participated in Agile development processes, contributing to a 15% reduction in project delivery times.

Intern - Embedded Systems

Jan 2017 - May 2018

Innovative Tech Labs, Houston, TX

- Supported senior engineers in developing embedded applications for IoT devices, gaining hands-on experience in C/C++ programming.
- Documented software requirements and prepared specifications, resulting in streamlined communication across teams.
- Contributed to the successful launch of a new product line, helping achieve sales targets of \$200,000 in the first quarter.

EDUCATION

Bachelor of Science in Electrical Engineering

May 2018

University of Texas at Austin, Austin, TX • GPA: 3.7

SKILLS

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

Tools & Frameworks: Git, JIRA, MATLAB, Keil