

Aisha Patel

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SUMMARY

Detail-oriented and motivated Entry Level Embedded Systems Engineer with a strong foundation in microcontroller programming and hardware/software integration. Proven ability to enhance system performance through innovative design and troubleshooting techniques.

EXPERIENCE

Embedded Systems Intern

June 2021 - August 2021

Tech Innovations Corp, Austin, TX

- Developed firmware for a custom IoT device, improving data transmission speed by 30%.
- Collaborated with a team to design a power management system that reduced energy consumption by 15%.
- Conducted testing and debugging of embedded applications using C/C++, resulting in a 25% decrease in system errors.

Research Assistant

Sept 2019 - May 2021

University of Texas at Austin, Austin, TX

- Assisted in a research project focusing on real-time operating systems, contributing to a paper published in a peer-reviewed journal.
- Designed and implemented a prototype for a wearable health monitoring device using Arduino, achieving accurate data collection within 5% margin of error.
- Utilized MATLAB for data analysis, increasing processing efficiency by 20%.

Technical Support Intern

June 2020 - August 2020

ElectroTech Services, Dallas, TX

- Provided support for embedded systems troubleshooting, improving customer satisfaction rates by 40%.
- Documented technical processes that streamlined support operations, reducing response time by 15%.
- Gained hands-on experience with simulation tools and embedded platforms such as Raspberry Pi and STM32.

EDUCATION

Bachelor of Science in Electrical Engineering

May 2021

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

SKILLS

Technical Skills: C/C++ Programming, Embedded Systems Design, Microcontroller Programming, RTOS

Tools & Frameworks: Arduino, Raspberry Pi, MATLAB, Git