

Jacob Wilson

Embedded Software Engineer

Dallas, TX
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Embedded software engineer with expertise in real-time systems and firmware development

Experienced embedded software engineer with five years of experience developing firmware for The Internet of Things (IoT) devices, automotive systems, and industrial automation. Skilled in C/C++, Real-time operating systems (RTOS), and low-level hardware programming.

PROFESSIONAL EXPERIENCE

July 2021 - Present

Embedded Software Engineer

SmartTech Devices, Dallas, TX

- Designed real-time firmware for IoT devices, reducing latency by 40%
- Developed power-efficient embedded applications, extending battery life by 30%
- Conduct hardware-software integration, resolving critical performance bottlenecks

June 2019 - June 2021

Firmware Engineer

AutoTech Systems, Dallas, TX

- Developed low-level drivers for automotive control units, improving response times
- Optimized embedded software performance, reducing system boot time by 20%
- Assisted in safety compliance testing for automotive software solutions

EDUCATION

Bachelor of Science in Computer Engineering

Texas A&M University, May 2019

KEY SKILLS

- Embedded C/C++ programming
- Microcontroller and FPGA development
- RTOS
- IoT and edge computing solutions
- Debugging and hardware-software integration