



Example of Staff Firmware Engineer Job Description

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Our company is searching for experienced candidates for the position of staff firmware engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

Responsibilities for staff firmware engineer

- Presents at design reviews
- May write and update requirement specifications for an assigned area
- Develop, design and evaluate new technologies and identify new applications for existing technologies
- Create new algorithms, embedded software, software specifications and testing specifications to support the early evaluation, development, design and validation process
- Create PC based testing tools
- Contribute to the development of our future product roadmaps and strategies
- Conduct Risk Assessments, FMEA/DFMEA and Design Reviews
- Support product development plans (schedule, product cost, meeting design inputs)
- Collaborate with internal manufacturing partners, contract manufacturers, designers and product specialists to optimize complex and advanced designs for manufacturability
- Mentor and teach less experienced engineers

Qualifications for staff firmware engineer

- Familiarity with Microsoft .NET and C#
- Bachelor's degree in Electrical Engineering, Electrical and Computer

- Bachelor or Master degree major in Computer science, Electronic & Automation or equivalent
- Well understand the architecture of various processors like ARM, PIC/C51 and PowerPC, and related peripheral interfaces UART, I2C, SPI, ADC, PWM, Timer, USB, LCD, Audio, Camera, WIFI, BT, FM, LIN, CAN
- 7+ years' experience in embedded firmware design and 2+ years role leading firmware development
- 2+ RTOSs (VxWorks, uC/OS II, FreeRTOS, QNX, ThreadX, Nucleus, OSEK/VDX,) working experience is preferred