



Example of Embedded Firmware Engineer Job Description

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Our growing company is searching for experienced candidates for the position of embedded firmware engineer. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

Responsibilities for embedded firmware engineer

- Work collaboratively with other team members and disciplines to test and debug control implementations in the operational system environment
- Design and develop the functionality of next generation systems
- Use source control systems in place at WiTricity for the maintenance of the code base and to provide proper revision control and release structure
- Be able to multi-task and independently manage the requirements of several projects in parallel
- Responsible for development, validation/verification testing and lifecycle management of embedded controls for Trane Commercial HVAC equipment
- Responsible to lead technical personnel in analyzing, designing, and testing embedded firmware for power electronics and motor controls
- Manage integration of sub-system embedded firmware with system level control firmware
- Manage software verification testing and production implementation, ensuring that industry standards are met
- Develop processes that streamline embedded firmware development including model based design, hardware in the loop and automated test scripts
- Develop models and simulations of HVAC equipment to minimize in lab and on equipment test requirements

Qualifications for embedded firmware engineer

- Experience with embedded webservers and embedded internet of things (IOT) would be added qualification
- In addition to above technical skills, right candidate must have good documentation practices - clear commenting / documentation of code and theory of operation - clearly express requirements / specifications, superior troubleshooting skills and good communication skills
- Bachelor/Master in Electrical/Computer Engineering with minimum 7-8 years related work experience
- Bachelor, Master's or PhD degree in Electrical or Computer engineering
- Minimum 5-6 years of experience with low level software/firmware and embedded systems
- Excellent knowledge of C, C++, assembly and scripting languages