



# Example of Principal Hardware Engineer Job Description

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Our company is growing rapidly and is looking for a principal hardware engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

## Responsibilities for principal hardware engineer

- Participate in technical and cost proposal writing teams providing technical solutions, development plans, technical write-ups, cost and schedule estimates and the documentation of the basis of estimate
- Ensure that company processes for product development, configuration management, purchasing, are followed
- Responsible for completing hardware design documents according to the required design practice
- Work with software team for firmware development and debugging
- Familiarity with soft pen-testing tools like NMAP, Burp, and Nessus
- Familiarity with DOCSIS specifications
- Manage a team of Hardware Engineers working on next generation photonic integrated circuit HW control schemes
- Lead your team through the design process, including schematic capture and design reviews
- Organize and lead control validation efforts both internally and at external vendors
- Collaborate with cross-functional teams on system integration and release to manufacturing

## Qualifications for principal hardware engineer

- Demonstrated mastery and technical leadership in C, C++, and Java in an embedded environment
- Deep understanding on how code will perform and compete with other processes for system resources
- Strong knowledge of MS Office applications (Word/Excel) is required
- Strong understanding of medical device product design and regulatory processes that conform to standards
- Knowledge and experience with Hospital Information Systems (HIS) connectivity desired (HL7, MDIL)