



Example of Principal Hardware Engineer Job Description

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Our innovative and growing company is hiring 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

- Adherence to DO-254, DO-160, MIL-STD-704, MIL-STD-461 and FAA guidelines for airworthy products as required
- Mentor, provide guidance and technical direction to HW engineers including remote team members
- Lead multi-disciplinary teams and processes
- Understanding the hardware requirements and design considerations for signal processing systems and driving transducers
- Productions of design documentation (include technical and design proving reports/CE compliance and Product Test Specifications)
- Schematic design and providing guidance for PCB layouts
- Investigation into faults down to component level and provide technical advice via e-mail / telephone
- Provision of practical engineering support to other activities and team members within UECCS, where time and priorities permit
- Be prepared to travel to support current and future products on customers' sites
- Develop and decompose system level safety requirements to lower levels through FTAs and understanding of controls system architecture

Qualifications for principal hardware engineer

- Knowledge of USB3.x and or USB2.0 protocols and overall system level experience is desired
- Experience with scripting languages like Python, Perl, TCL, Unix-shell is strongly recommended
- Experience with version control systems such as Subversion (SVN) is also desired
- Familiarity with PCB schematics and related board design would be useful but not requir
- Experience with EAGLE or comparable PCB design software