



Example of Principal Hardware Engineer Job Description

Powered by www.VelvetJobs.com

Our innovative and growing company is looking for a principal hardware 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 principal hardware engineer

- Able to review lower tiered requirements and determine if they are Safety related and trace them back to higher tiered requirements
- Write and review invention disclosures to protect intellectual property, both as main inventor and co-inventor
- Perform activities associated with supporting HOS and LEAN improvement initiatives to drive continuous improvement to the shop's safety, quality, cost, and cycle time performance metrics
- Perform autonomously under the direction of technical and program management engineering management
- Identification of hardware components like UARTs, JTAGs via pinouts, visually via board layout and/or via logic analyzer/scope
- Deep knowledge of Linux, Mac OS X, and Windows OS platforms
- Deep knowledge of IP network protocols and configuration
- Proficiency in programming and source code analysis of x86 ASM, C/C++, Java, JavaScript, PHP, Python, HTML5, CSS3, HMTL5 and other languages used in customer-facing devices and interfaces
- Awareness of past and current security vulnerabilities and hacking techniques
- Familiarity with common RF protocols like 802.11, 802.15

Qualifications for principal hardware engineer

- Proficient in constraint driven design methodologies

- Master's or PhD degree in Electronic Engineering or related field · Excellent verbal and written communication skills, with attention to detail
- Serve as the technical lead for display components through the entire product life cycle, from road mapping through design in to mass-production support
- Perform hands-on bring-up, testing, and troubleshooting of displays and associated control electronics