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# Example of Hardware Design Job Description

Our innovative and growing company is hiring for a hardware design. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

## Responsibilities for hardware design

* Designs and tests integrated circuits and hardware components for signal processing applications and research
* Designs, documents, and develops code for digital signal processors or other hardware devices
* Analyzes the functions of existing integrated circuits and hardware components for the purpose of reverse engineering
* Modify and adapt vendor-manufactured hardware to meet customer requirements
* Support of the Hardware Design Group for active safety products
* Design of hardware for electronic modules
* Schematic capture using Mentor DX Designer tools
* Design analysis including FMEA, FTA and worst case stack up analysis
* Hardware simulation using SPICE (or other tools) including verification of actual hardware in the lab
* Definition of interface requirement for the Software Team

## Qualifications for hardware design

* At least four years experience in electrical board design and hig speed digital design
* Occasionally travel is needed
* Scripting experience with Python, or similar
* BS/MS CE/EE/CS with 8+ years of experience in board and FPGA design
* Expertise using Cadence (including Orcad), Mentor design tool and flows
* Familiar with the use of lab equipment such as oscilloscope, logic analyzer, signal generators, etc