



# Example of Hardware Design Job Description

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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 high 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

- Familiar with the use of lab equipment such as oscilloscope, logic analyzer, signal generators, etc