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# Example of Board Design Engineer Job Description

Our company is growing rapidly and is searching for experienced candidates for the position of board design 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 board design engineer

* Working with Hardware Engineering Team to complete Firmware and Hardware Development, Simulation and Verification for digital signal processing and general processing projects
* Participates in the overall product development cycle from electrical product conception until start of mass production
* Is part of a multidisciplinary team consisting of system architects, SW engineers and other HW disciplines with daily interaction to third parties, procurement and industrialization teams
* Performing Hardware design activities for various programs and research projects
* Design and develops Printed Circuit Boards (PCBs)
* Generates documents using tools for schematic capture
* Designs include dense, high-speed, multi-layer boards
* Working with multi-disciplinary Hardware Engineering Team to complete cutting edge product development
* Understand and develop material selection, impedance calculations, high speed design, cross talk limits, differential pairs, PCB stack-ups, PCB via structures, during the design phase, and generate and perform reviews on the artwork and drawings once the design is ready for fabrication and assembly
* Interface with Mechanical engineers, Suppliers, Component Engineering, Program Managers and Project team members as needed to develop cost effective high quality designs

## Qualifications for board design engineer

* A strong technical background in both high-speed board and platform design - Ability to work with key resources and stakeholders SV/EV validation, SW, SI/PI/PD, mechanical, thermal, manufacturing
* Capacity to work independently and in a solid team environment- Experience with eCAD design tools Cadence OrCAD, Concept & Allegro
* Engineering degree or a degree in Computer Science/Telecommunications/Electronic (or you are obtaining it this year) or have up to 5 years of experience
* You have a broad interest in HW design (mainly analog)
* Broad interest in the Telecom sector
* Knowledge of qualifications standards (ANSI, ETSI, MII), ECAD design tools (Mentor Graphics/Valor), xDSL is an asset