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# Example of Board Design Engineer Job Description

Our company is hiring for a board design 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 board design engineer

* Design and develops Printed Circuit Boards
* Generates documents using tools for schematic
* The designs are dense, high-speed, multi-layer boards
* Working with Hardware Engineering Team to complete Hardware Development
* Understand and develop with the engineering team on 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 design
* Participates in semi-complex maintenance, enhancement, testing and of existing hardware
* Participates in semi-complex design, development, testing, and modification of hardware
* Participates with designing, developing, and implementing semi-complex hardware solutions while adhering to manufacturing capabilities
* Participates in maintaining all engineering documentation to support a design effort

## Qualifications for board design engineer

* Can trouble-shoot and design Ethernet 1G/10G/100G (both copper and fiber I/O)
* Exposure/familiarity with thermal analysis
* Exposure/familiarity with mechanical analysis
* BS in Electrical and Computer Engineering with 5 - 7 years of experience or an MS in Electrical or Computer Engineering with 3 - 5 years experience
* Minimum of 3 years experience in synthesizing and maintaining RTL images for FPGA platforms
* Minimum of 2 years experience with Xilinx Vivado and Synopsis Synplify Pro Tools