



Example of Circuit Design Engineer Job Description

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

Responsibilities for circuit design engineer

- Knowledge of High-speed CMOS circuit design
- Defining the layout requirements and interacting closely with layouters verifying the circuitry post-layout
- Interfacing and supporting other disciplines like ESD, system engineering, digital design, firmware, component verification and production test, with the goal to integrate successfully mixed signal blocks into a global product
- Support silicon verification by proactively helping during the definition of the verification plan and during measurements interpretation
- Design module electronics which will include analog optical controls, optical device monitoring functions, linear and switching power supplies, ADCs/DACs and highspeed logic including FPGAs, microprocessors and memories
- Develop strategies for optimizing designs to efficiently implement complex functions while maintaining the ability to meet the physical constraints which include dimensions and power limitation requirements
- Interact, collaborate and work cross-functionally with optical, hardware, firmware, software, PIC and DSP design teams
- Contribute to developing optical, hardware, firmware and software integration test plans and reports
- Generate integration test procedures, test specifications and design verification test plan
- Provide status reports, keep track of deliverables, milestones and schedules

Qualifications for circuit design engineer

- Thorough understanding of Communication systems, Digital Signal Processing
- Active SSBI clearance preferred
- Must have a BS or MS in Electrical Engineering
- Minimum of 3 months experience/course work on digital and analog circuit design, computer architecture, data structures in any programming language
- Knowledge of electronic circuits and components
- Knowledge of microcontrollers, power supply circuits, and inverter circuits