



Example of Staff Design Engineer Job Description

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Our company is searching for experienced candidates for the position of staff design engineer. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

Responsibilities for staff design engineer

- Propose, negotiate, and design mechanical solutions to achieve function and performance objectives
- Create and execute plans to bring-up, test, and validate all mechanical designs
- Innovatively solved the technical problems in design and manufacture phases
- Responsible for overall product quality and competitiveness
- Verification of functionality, performance, and power of developed circuits
- Generation of all views delivered with our Physical IP product lines
- Knowledge in standard cell architectures
- Understanding or an ability to learn a wide variety of industry standard modeling formats including Liberty (CCS, ECSM, and NLM), Verilog, LEF, Milkyway, SPICE, and CDB
- Knowledge of industry standard software for synthesis, place and route, and timing analysis and their associated programming languages
- The ability to analyze and interpret timing and power reports

Qualifications for staff design engineer

- Experience in Magnetics design - Low and High Frequency Transformers, Inductors, CTs, PTs etc
- Knowledge of Control Loop design, Gain and Phase Margins, Stability analysis etc
- Expertise in function pipelining/partition, advanced logic design, design

- Hands on expertise in all aspects of design flows such as floor planning, placement optimization, clock tree synthesis, routing, crosstalk avoidance and physical verification
- Excellent knowledge of place and route methodologies including implementation requirements for mixed-signal designs
- Experience in leading block level and full chip timing closure & Physical Design activities