Downloaded from <https://www.velvetjobs.com/job-descriptions/analog-design>

# Example of Analog Design Job Description

Our company is looking for an analog design. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

## Responsibilities for analog design

* Work with the SERDES Architecture team for 32G GMI3 and SERDES design
* Responsible for PHY microarchitecture, feasibility studies, circuit design
* Work with execution teams on testchip development and production design
* Lab work on characterization, validation and debug
* Mentor and accompany the Product & Test teams qualifying the device
* Develop Integrated circuit for automotive application in compliance to the most stringent automotive EMC ESD complicany
* Develop integrated magnetic sensors and design a variety of blocks (ADC, supply systems, low noise amplifiers…)
* Work with detailed schematics on transistor and cell level designs
* Verify performance parameters and limits with process variations
* Develop software scripts to support verification and test

## Qualifications for analog design

* Self-motivated and take full responsibility for solutions
* Ability to successfully collaborate in a global design team is essential
* BSEE (MSEE preferred) with course emphasis on microelectronics
* Understand of semiconductor device physics, modeling and processing
* Knowledge of analog front-end and back-end design flows
* Expertise with Cadence and other analog and mixed-signal IC design tools