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# Example of Diagnostics Engineer Job Description

Our company is looking for a diagnostics 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 diagnostics engineer

* Interface with vehicle level electrical systems engineers for root cause analysis
* Review schematics and interpret for vehicle testing purposes
* Develop diagnostics framework set up and software to help the diagnostics team to bring-up and validate ASIC features on both pre-silicon environment (FPGA, C-Model, Palladium) and post-silicon system (real ASIC and platform)
* Participate in APU/GPU silicon bring up in a support role for framework
* Identify and help resolve framework issues, provide diagnostics support to external customers and internal engineering teams
* Signal processing, including real-time data processing from onboard systems, cloud and vehicle-to-vehicle based sources
* Design and develop diagnostics tests to provide full coverage for various IPs and to participate in bring-up and validate ASIC features on both pre-silicon environment (FPGA, C-Model, Palladium) and post-silicon system (real ASIC and platform) and in post-silicon environment on the real silicon
* Identify and help resolve issues, provide diagnostics support to external customers and internal engineering teams
* Work with teams from a wide range of disciplines to collect requirements to develop and test new features
* Extend the software architecture based on the current and future needs

## Qualifications for diagnostics engineer

* Experience and interest in data visualization techniques
* Experience in creating learning algorithms is a plus, but not required
* Ability to work well with all company teams including Service, Manufacturing, and Marketing
* Experience with PCB design & debug a plus
* BS degree in EE, CS, or equivalent
* BS engineering degree or higher