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# Example of Software Controls Engineer Job Description

Our growing company is hiring for a software controls engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

## Responsibilities for software controls engineer

* Ensure that software developed is reviewed by peers and acceptance criteria is clearly agreed upon
* Conduct risk assessments on software development activities and create mitigation plans
* Create through collaboration design documentation as required to document designs and changes for review and future product support
* Work closely with quality, field support and product management groups to prioritize support issues and develop schedules for resolution
* Work closely with software quality assurance resources to create test plans and ensure that issues are properly assigned, fixed, and closed
* Participate in team meetings to clearly communicate software development status
* Development of portable, reusable and modular software compliant to automotive requirements and design guidelines
* Develop software in compliance with a formal CMMi/ASPICE based company product engineering processes
* Working with a cross-function team, develop and capture requirements for powertrain customer interface features and technologies
* Troubleshoot vehicle / powertrain system functional and diagnostic issues

## Qualifications for software controls engineer

* Working knowledge of powertrain calibration tools like INCA and ATI Vision
* Experience performing CAN failure simulation and data analysis using tools like Vector CANalyzer
* Experience with automotive communication protocols used in ‘Service Diagnostics’ environment
* Minimum 1 year of experience in automotive controls
* Working knowledge of Matlab/Simulink/Stateflow development environment
* Working knowledge of Control System software design including C Programing language and MISRA for automotive