

Senior Engineer II (Senior Software Engineer)

Salary: 80k-112k, Bonus up to 15% (2012 Bonus was 15%)

POSITION SUMMARY

The primary responsibility of this position is to develop and integrate embedded software for electronic control modules that are currently being developed for production programs. The candidate will be responsible for working with other engineers to ensure that program goals are met, schedules are maintained, and problems encountered during the development process are satisfactorily resolved. The ideal candidate will be proficient in C programming language for embedded applications, have experience with electronic control systems, be familiar with Freescale Star12 family of micro-processors and related software development tools. The candidate will have experience with design specifications, detailed software design documentation, software validation test procedures and software configuration management tools. Ideally the candidate will also have design experience with GMLAN and Vector Tools including auto-code generation with CANgen. In addition, it is desirable that the candidate has experience with MathWorks Simulink and dSpace TargetLink scaling and auto-code generation tools, but not required.

KEY ACCOUNTABILITIES

- Embedded Software - Demonstrates knowledge of embedded software and integration of C programming including fixed point scaling.
- Automobile Powertrain Systems - Demonstrates basic understanding of automobile transmission and/or all-wheel drive coupling functions.
- Electrical Hardware - Demonstrates ability to design and debug simple wiring harnesses for sensors and ECUs.
- Network Protocols - Demonstrates understanding of CAN / FlexRay and other network protocols.
- Documentation Skills - Demonstrates ability to write fluently to describe algorithm design, theory and test results.
- Communication Skills - Demonstrates ability to effectively communicate with peers, supervisors and customers.
- Teamwork - Considers and seeks out the impact of his/her actions within the team. Actively seeks collaboration with internal and external team members.

Qualifications

EDUCATION/EXPERIENCE

- Bachelor's Degree in Engineering required.
- Master's Degree preferred.
- Minimum of 8 years of related work experience required
- 5-7 years experience in embedded software integration.
- 5-7 years experience in network protocols (ie CAN).
- Knowledge of Matlab/Simulink/Stateflow is preferred.
- Experience with embedded software development and TargetLink beneficial.
- Experience in automotive vehicle development preferred.
- Excellent organizational and interpersonal skills.
- Excellent time management skills.
- Ability to work independently with minimal supervision.