



Azure Dynamics Inc. is conducting a search for the following position. We offer a competitive compensation package, a friendly, casual work environment and fantastic natural surroundings in Burnaby, British Columbia.

POSITION DESCRIPTION:

TITLE:	Software Engineer
SUPERVISOR:	Lead Engineer
DEPARTMENT:	Controls Engineering – Embedded Software Group
CLASSIFICATION:	Full-Time

DUTIES:

- Develop a laptop-based diagnostic tool for the purpose of servicing electric and hybrid-electric vehicles
- Assist with maintenance and advancement of the model-based development environment, including tool-chain procurement, evaluation, selection, and deployment.
- Conduct software/system verification and validation
- Determine and track various development activities via the Change Request and Configuration Management process
- Develop production code in the Matlab Simulink/Stateflow environment for use in production parallel hybrid and electric powertrain vehicles
- Capture requirements from internal/external customers and develop them into verifiable system requirements

REQUIRED SKILLS/KNOWLEDGE/ABILITY:

- Experience developing reliable Windows (XP, 2000, Vista, 7) applications for multiple laptop platforms (Dell, Toshiba, IBM) using Visual Basic (VB 2008 Express)
- Experience programming with VB, C#, C++, Java on .NET/Java platforms in Windows
- Familiar with in-vehicle CAN network protocols: Diagnostics on CAN (ISO 15765), J1939, CAN Calibration Protocol (CCP or XCP), KWP2000 (ISO 14230)
- Experience in software verification testing (structural and functional) with tools such as Reactis, SystemTest, Simulink Design Verifier, Polyspace, HiL
- Ability to work independently without constant supervision
- Ability to communicate concisely and accurately in English through both written and verbal mediums

DESIRABLE SKILLS/KNOWLEDGE/ABILITY:

- Experience working within an automotive/aerospace software development process compliant with Automotive SPICE, ISO 26262, IEC 61508, or CMMI using:
 - requirements capture & management tools such as TopTeam, DOORS
 - configuration & change management tools such as TopTeam, CVS, Rational ClearCase/ClearQuest
- Knowledge of system/software DVP development and testing
- Practice with customizing Document Generators: TopTeam, Simulink Report Generator
- Familiarity with calibration and debug tools such as ATI Vision and CANalyzer
- Proficiency in programming languages such as in MATLAB M, RTW TLC, C
- Experience with model-based design (MBD) or model-driven development (MDD)

processes using tools such as MATLAB/Simulink/Stateflow, Real-Time Workshop Embedded Coder

- Familiarity with system and software level DFMEA
- Experience with Mototron ECUs and toolchain (i.e. motoHawk, motoTune)
- Experience in production automotive embedded control systems design, test, debug, or calibration: ECUs, sensors, actuators, CAN, embedded software, mechanical components, etc.

EDUCATION/CERTIFICATION:

- Minimum education requirement is the completion of a Bachelors degree in engineering with a core competency in Software Engineering or Computer Science.
- Four or more years of experience in a related field are preferred. Co-op work experience will be considered

If you would like to apply for this position, please forward your cover letter and resume to the following:

c/o Kristen Sanders
Azure Dynamics
3900 North Fraser Way
Burnaby, BC
V5J 5H6