

## **Embedded Systems Engineer - Job ID 11720**

**Location: Troy, MI**

**Remove Job Posting: December 15, 2016**

At Roush, we fuse technology and engineering to provide product development solutions to customers in a diverse range of industries. Widely recognized for providing engineering, testing, prototype, and manufacturing services to the transportation industry, Roush also provides significant support to the aerospace, defense and theme park industries. With over 4,000 employees in facilities throughout the United States, Europe, Asia, and South America, our unique combination of creativity and tenacity activates big ideas on a global stage. We want motivated, ambitious people who put the needs of our customers first, bring creativity to their work and will do whatever it takes to achieve success. If you share our passion for providing innovative solutions to complex challenges, we want you on our team.

Roush is looking for an Embedded Systems Engineer to join its expanding team in Advanced Engineering to address a diversity of projects in the aerospace, automotive and entertainment industries in a range of concepts such as gasoline, diesel, hybrid, and electric vehicles and powertrains, space flight electronic hardware, and more. The Embedded Systems Engineer will work directly with internal and external customers & suppliers in order to partake in product design, concept development, analytical validation, prototype and production electronic hardware and software. The Embedded Systems Engineer will be involved in a variety of projects including the design, development, and release of various control system components related to gasoline and diesel-fueled engines, electrified powertrains, functional safety systems, and battery management systems, as well as FPGA system design. This position is located in our Troy, Michigan facility.

### **Qualifications**

- Bachelor degree in Electrical Engineering, Computer Engineering, Computer Science, or a closely related field, is a requirement for this position (A Master's degree is a plus)
- Minimum 3-years' experience and ability in programming in hardware description languages such as VHDL or Verilog.
- Knowledge of imperative programming languages such as C, C++, Ada, or similar.
- Ability to write simple scripts and tools in languages such as Perl, Python, Ruby, or similar.
- Knowledge of model-based design and development using MATLAB/Simulink or similar.
- Product development engineering experience in an industry such as automotive, aerospace, or similar.
- Experience in electrified powertrain design and development would be a plus.
- Practical knowledge of vehicle diagnostics and analysis tools such as CANalyzer, CANoe, ETAS/Inca, etc.
- Knowledge and experience of PCB design for advanced controllers.
- Experience with requirements management.
- Experience developing technical specifications, test plans, test cases, and test reports.
- Experience with embedded system development including software, hardware, and tools.
- System Engineering knowledge in areas such as Fault Tree Analysis, FMEA, test case definition, requirements definition is a plus.
- Ability to communicate and work closely with other engineers, customers, and clients.
- Ability to thrive in a fast-paced and often multi-tasking environment
- Skilled in Microsoft Office including Word, Excel, PowerPoint, and Project.
- Ability to work independently or in team settings.
- Preferred candidate will have significant experience in the development of automotive electronics.

To apply, please visit the Roush careers page by clicking on this link: <http://www.roush.com/careers>  
Our benefits include: medical, dental, vision, life insurance, LTD, 401K, tuition reimbursement, paid vacation, and paid holidays.

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**At Roush, we are committed to maintaining an environment of Equal Opportunity and Affirmative Action. If you need a reasonable accommodation to access the information provided on this website, please contact the Recruiting Department at 734-779-7007 for further assistance.**

**EEO/AA/Veterans/Disabled**