Career Opportunity: Software Test Engineer

In-office job role: 100% on-site, in Chatsworth, CA – not remote. *(This role will be permanently moving to Simi Valley, CA by EOY 2025).*

Space Vector Corporation is seeking an experienced and motivated individual to join our team as an Electrical Engineer. You will be working closely with various teams at Space Vector throughout all phases of product development and testing for multiple key aerospace programs. In this role, you will be responsible for circuit design, analysis, board layout, hardware debugging, and testing. The main products will be Battery Management Systems (BMS) and related test equipment.

Responsibilities:

- Develop SW test plans, write SW test cases and generate SW test reports using qualified tools.
- Emphasize software testing, including unit testing, integration level testing, and functional testing.
- Ensure compliance with MIL-STD-882 or DO178 standards throughout the software development lifecycle.
- Ensure 100% statement and branch code coverage (MC/DC) compliance
- Experience setting up and utilizing unit testing, code coverage and static code analysis tools
- Participate in code peer reviews
- Design, develop and test highly reliable software systems for aerospace applications.
- Debug software and tests, both on real hardware and in an emulated or host environment.
- Familiarity with SDLC and writing standard software documents (SDP, SRS, SDD, STP, STR)
- Collaborate with cross-functional teams, including hardware engineers, to integrate software with embedded processors and microcontrollers.
- Follow a 9/80 work schedule (nine-hour days with every other Friday off).

Qualifications:

- Bachelor's degree in computer science, Electrical Engineering, or related field
- Minimum of 5 years of experience in software testing, with a focus on MIL-STD-882 or DO178 standards.
- Strong understanding of software unit testing and integration testing with qualified tools
    - GoogleTest, RapiTest, CppTest or CppUnit

- Experience with version control systems (GIT / SVN / CVS).
- Proficiency in embedded C++ programming.
- Familiarity with STM32 family of microcontrollers is a plus.
- Hands-on experience with PCBs (Printed Circuit Boards) is a plus.
- Familiarity with Battery Management Systems (BMS) is a plus.
- C# and XML experience is a plus (for some test scripts and user interfaces).
- Ability to work on-site at our California location.

Job type: Full-time, Exempt. Salaried. US Citizenship is required.
Salary Range: $109,000 - $203,000