

Principal Software Engineer (DO-178B/C)

Aversan Inc. (www.aversan.com) is a trusted multi-service engineering and electronics manufacturing company. Aversan delivers leading-edge and reliable safety-critical electronics and software systems to the aerospace, defence, and space industries.

Location: Remote

Duration: 2-3 Months (Urgent Need)

Key Responsibilities:

- Work with high-level and low-level requirements in a DO-178B/C environment.
- Perform requirement reviews, change request analysis, and test case creation.
- Develop and review safety-critical software ensuring compliance with aerospace industry standards.
- Collaborate with cross-functional teams to ensure robust software design and implementation.
- Review software API specifications and requirements.
- Design and develop comprehensive test cases based on API/function specifications.
- Create test cases consisting of both:
 - Test Documentation
 - Test Implementation (primarily written in C code)
- Update existing test cases to execute on specific target systems.
- Perform formal reviews of the test cases developed by other Software Verification Engineers (SVEs).
- Perform traceability and test coverage analysis.
- Create driver problem reports describing issues that arise during testing.
- Work as a team to produce reliable, high-quality, safety-critical solutions deployed worldwide.

Required Qualifications:

- 10+ years of experience in a DO-178B/C software development environment.
- Strong C programming skills in an embedded systems environment.
- Experience with requirement development, reviews, and test case creation.
- 10+ years of experience working in a test and verification environment.
- Intermediate to expert-level C coding, or knowledge of a similar language (e.g., C++, C#).
- Ability to read and understand graphics requirements and standards and create tests from them.
- Ability to write clear and concise documentation in accordance with DO-178C standards.
- Experience performing formal reviews in accordance with DO-178C standards.
- Experience using unit & integration testing toolsets.

- Experience using requirements management databases.
- Fluent skill in speaking and writing American English is required.

Preferred Skills:

- Vulkan experience (Highly preferred but not required).
- Experience with VxWorks HVP (a huge plus).
- OpenGL experience is also beneficial.
- Experience with OpenGL, Vulkan, OpenVX, EGL, and other Khronos Group standards.
- Experience with VxWorks HVP RTOS.

This is an urgent requirement, and we are actively reviewing candidates. If you are interested, please send your updated resume to **snavaid@aversan.com**.

The subject of the email should be “**Principal Software Engineer (DO-178B/C)**”. The name of the file for the resume should be the applicant’s full name. The resume format should be PDF.