Software Engineer - Embedded C/C++, DO-178

Description:

Mach Global Technology is seeking a motivated Software Engineer to contribute to the embedded software development lifecycle. The ideal candidate will assist in creating and delivering DO178 project artifacts and work under the guidance of senior engineers.

Responsibility:

- Gain an understanding of complex architectures, requirements, algorithms, interfaces, and designs for avionics systems.
- Develop code and perform Verification & Validation according to DO178B/C standards under supervision.
- Demonstrate growing technical expertise in software projects.
- Participate in peer reviews to ensure code quality and adherence to standards.
- Assist in debugging, fixing bugs, and resolving issues using test benches that simulate aircraft cockpits.
- Conduct regression, unit, and integration testing with guidance.
- Contribute to ensuring high-quality deliverables before handing them off to Quality Assurance teams for further testing and verification

Minimum Skills/Experience:

- Basic experience in developing and debugging embedded systems using C.
- Understanding of DO-178B/C standards and coding practices, essential for avionics software development.
- Familiarity with writing high-level and low-level requirements for embedded systems.
- Proficiency in defining and executing high-level and low-level test procedures, with some hands-on experience in verification processes.
- Basic knowledge of RTRT (Rational Test RealTime) or other unit testing tools, with practical experience in software verification.
- Understanding of the software development life cycle (SDLC) specific to avionics embedded systems.
- Familiarity with avionics communication protocols such as ARINC 429, ARINC 825, and RS232.

Qualifications :

Bachelor of Technology in Computer Science & Engineering, Electronics & Communication or equivalent discipline with 1 to 4 years of relevant experience.