

Embedded Software Engineering Consultant

About us

Skyint is an innovative startup pushing the boundaries of software development in the space industry. We are passionate about space technology, innovation, and software quality. As part of our team, you will play a key role in shaping the future of space exploration through safety-critical, high-tech software development. Our projects range from mission control software systems running on-premises or in the cloud, to on-board embedded software which runs on spacecrafts.

Role overview

We are looking for a part-time Embedded Software Engineering Consultant contractor to propel our team to new heights. As Embedded Software Engineering Consultant at Skyint, you will have a real impact on our missions, and will enable the team to build and ship safety-critical software.

Join us to see and experience software that is rocket science, and where our mission is not a corporate text we put on the wall, but an actual spacecraft exploring the universe.

Key responsibilities

- Oversee and guide the development of safety-critical embedded software in space projects.
- For software components and software systems created by the team, oversee and provide guidance and feedback on the following activities:
 - Analyze risks, apply criticality analysis (SCAR, SFMEA)
 - Determine functional and non-functional requirements
 - Create architecture, model (UML), configuration for real-time systems (budgets, WCET)
 - Implement functionality by coding, applying unit testing and integration testing
 - Handle software issues, anomalies, and non-conformances
 - Ensure software quality and cyber security
- Review (and occasionally create) software documentation.
- Collaborate with project management during the preparation of new projects and across the project life cycle.

Job requirements

- A master's degree in computer science, software engineering, electrical engineering or other STEM-related degree with a computing component and 5+ years of relevant professional work experience
- Proficiency in reading, understanding, and creating technical documents in English, while also being conversational (B2+)
- Significant, demonstrated experience in implementing real-time, embedded systems in a high-level programming language (e.g. C, C++) for a safety-critical application (e.g. automotive, railway medical, aerospace)
- Experience with safety-critical software development standards (ISO 26262, ECSS E40, ECSS Q80, ED12/DO178)
- Experience with coding standards ((MISRA C, MISRA C++, AUTOSAR, JSF AV C++))
- Experience with embedded microcontrollers and processors (e.g. ARM Cortex, SPARC architectures)



- Experience with embedded communication protocols (e.g. UART, SPI, I2C, CAN)
- Experience with version control systems (e.g. GIT)
- Experience with real-time operating systems (e.g. FreeRTOS)
- Collaborative and positive attitude, willing to adapt to dynamic situations.
- Able to meet project deadlines by planning and executing as per plan.

Preferred qualifications

- Advanced English language skills (C1)
- Experience with DevSecOps

What we offer

- A chance to work on space projects with direct impact on space missions.
- A dynamic, high-tech environment focused on innovation and quality.
- Opportunities for professional growth in a rapidly evolving industry.

The offered job is remote, part time (0.2 FTE), with an independent contractor status (non-employment).