

Embedded Software Engineer

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 an enthusiastic, precise and collaborative Embedded Software Engineer to propel our team to new heights. As Embedded Software Engineer at Skyint, you will have a real impact on our missions and will grow professionally by becoming proficient in safety-critical software development.

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

- Develop safety-critical embedded software in space projects.
- For software components and software systems,
 - 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
- Create software documentation.
- Collaborate with project management during the preparation of new projects and across the project life cycle.
- Travel as required by the project.

Job requirements

- A master's degree in computer science, software engineering, electrical engineering or other STEM-related degree with a computing component
- Proficiency in reading, understanding and creating technical documents in English, while also being conversational (B2+)
- Relevant experience in implementing real-time, embedded systems in a high-level programming language (e.g. C, 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
- Experience with coding standards ((MISRA C, MISRA C++, AUTOSAR, JSF AV C++)
- Experience with safety-critical software development standards (ISO 26262, ECSS E40, ECSS Q80, ED12/DO178)
- Other relevant industry experience, especially with a safety-critical aspect (medical, railway, automotive, aero, space)

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 currently full remote, with a hybrid model transition planned to our Budapest office in 2025.