Senior Embedded Software Engineer

Space Products and Innovation spins technology into the space industry to simplify manufacturing. SPiN enables rapid, flexible, and cost-effective satellite designs through modularity, by combining MA61C, its plug-and-play intelligent data node, with system engineering. SPiN democratises access to space, empowering manufacturers to unlock new ventures.

Job purpose

The senior embedded software engineer shall be a part of the software development team and will be in SPiN Luxembourg. This person shall be responsible for developing, implementing, and maintaining drivers, API, and software on MA61C products. This includes designing plug-and-play functionalities for new subsystems, improving the existing run time, and validating and verifying the new functionalities.

Duties and responsibilities

- Embedded software development
- Development of embedded C in space-borne processers
- Development of functions for the API in C++
- Validation and verification with hardware in the loop
- Drivers Database management
- Definition/implementation of requirements along with ensuring that the software meets the required performance.
- Implementation of test software, scripts for functional tests, HiL tests, and hardware-software integration testing
- Support in software verification and validation, support in functional test verification
- Software design documentation and test plans
- Research into new technologies for next-generation products
- Support in generating requirements for the development of the MA61C-GUI upgrade
- Participation in solving interdisciplinary challenges
- Maintenance of software applications including fixing bugs, making updates, and addressing issues that arise after deployment along with customer support (if necessary).

Qualifications

- MSc/PhD in Electrical, Computer Science or similar
- At least 2 years of experience working in the Space Industry with knowledge of spacecraft subsystems
- At least 5 Experience in embedded programming C/C++ Knowledge of real-time embedded OS, test tools, software and coding standards
- Experience working with LEON Microprocessors (SPARC V8)
- Experience working with Eclipse
- Familiarity with the use of version control software
- Experience developing system-level documentation such as Software design descriptions and test procedures/Reports.
- Knowledge of debugging with hardware in a loop
- Knowledge of working with measurement equipment such as oscilloscopes and multimeters is a plus
- Knowledge of Java and VHDL is a plus.
- Fluent in English

Location Luxembourg, LUXEMBOURG

Relocation YES

Start date As soon as possible

How to apply

Please fill in the application form to apply for this opportunity: https://wkf.ms/3rlgV6x
For more information, you can contact us at hr@spinintech.com