Senior Software Engineer

Start-up description

SPiN is a leading provider of modularity solutions for the space sector. It offers satellite integration solutions to transform satellites into modular systems, empowering satellite manufacturers to spend high-value time and money pursuing new ventures. In 2023, SPiN completed a NASA SBIR Phase 1 contract, including building and demonstrating an MA61C adapter. More information can be found at http://www.spinintech.net/

Job purpose

The senior embedded software engineer will be part of the software development team and responsible for developing, implementing, and maintaining drivers, APIs, 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, including C in space-borne processors
- Development of functions for the API in C++
- Validation and verification with hardware in the loop
- Drivers Database management
- Defining/implementing requirements and ensuring the software meets the required performance.
- Implementation of test software, functional test scripts, HiL tests, and HW-SW integration testing
- Software design documentation and test plans

Qualifications

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

Working conditions

- Remote. Option to work from our office in Albuquerque, New Mexico.
- Start date: Q3 2024

Additional requirement

Applicants must be US citizens, lawful permanent residents of the USA, protected individuals as defined by 8 USC 1324b(a)(3), or eligible to obtain the required authorisations from the US Department of State to comply with the US Government space technology export regulations, including the International Traffic in Arms Regulations (ITAR).

Please send a CV and motivation letter to: HR@spinintech.net

SPiN Space Products and Innovation
Space Products and Innovation, Inc.
3225 Central Ave. NE, Albuquerque, NM 87106
www.spinintech.net
tal.azoulay@spinintech.net
15053172908