Space System 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 where it counts: pursuing new ventures. More information about SPiN can be found at http://www.spinintech.com/.

Job purpose

The Space System Engineer will be part of SPiN's system engineering team. The person will be responsible for system design, development, and implementation of satellite avionics concepts using MA61C for testing, subsystem integration such as attitude and control system, and complete spacecraft integration. The person will be hired directly to support the development of the modular Attitude Determination and Control System (mADCS) project and the orbit control system. Furthermore, the engineer will create SPiN's in-house capabilities to support and implement AOCS solutions in small satellites.

Duties and responsibilities

- Analysis and consolidation of mission requirements
- Analysis and consolidation of end-user requirements
- Flow down of user requirements to system requirements
- AOCS Subsystem and hardware/software requirements analysis
- Define the system concept of using modular subsystems in small satellites
- Develop system-level documentation, including ICDs, AIT plans, TPs/TRs, equipment lists, FMECAs, etc.
- Definition of Assembly Integration and Testing (AIT), environmental, and Hardware in the loop (HiL) plan
- Support in the execution of validation and verification plans, AIT, and HiL tests
- Verify that the results comply with the requirements and budgets
- Writing project reports
- Participation in solving interdisciplinary challenges
- Customer support, if necessary

Qualifications

- MSc in Aerospace engineering or similar
- At least two years of experience in space system engineering in small satellites
- At least two years of experience in the development of AOCS systems in Small satellites
- Experience working with system engineering tools
- Knowledge AIT process: manufacture, assembly, electrical, functional, and environmental tests
- Experience developing system-level documentation, including ICDs, AIT plans, TPs/TRs, equipment lists, FMECAs, etc.
- Experience with Matlab/Simulink or similar programming languages, along with basic knowledge of C/C++
- Knowledge of MBSE tools is an advantage
- Experience working with ESA is an advantage
- Fluent in English

Working conditions

- Relocation to Darmstadt, Germany
- Start date: Q2 2024

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