Guidance, Navigation & Control (GN&C) Engineer

LMO SARL is a company based in Luxembourg developing innovative technologies for Space Situational Awareness (SSA) Systems to support future missions for In-Orbit servicing. LMO SARL is involved in the design, development, verification, build, test and operation of its space-borne systems and collaborates with major research and industrial players in the field of Computer Vision including AI solutions.

Job Location & Type

Technoport, Esch-sur-Alzette, Luxembourg.

Full Time Employment

Position Summary

The GNC engineer will be responsible for the definition, design, analysis, and implementation of the GNC architecture for a space rendezvous mission based on the AI-powered Visual Navigation payload developed by LMO. Working within a multi-disciplinary team in the framework of in-orbit servicing applications he/she will be involved from early phase in the definition and analysis of the GNC system requirements for in-orbit servicing, including rendezvous, docking and berthing applications. He/she will oversee the development of the GNC solution throughout its lifetime, including verification & validation aspects. The role will involve strong emphasis in modelling and analysis, requirements derivation and early simulations and prototype testing. It will also involve working with research partners and interfacing with customers in technical aspects.

- A minimum of 3 years of experience in GNC relevant projects for space applications
- Deep understanding of spacecraft GNC architectures, including first principles and practical aspects of AOCS sensors and actuators.
- Strong skills in modelling spacecraft dynamics and attitude control. Experience in modelling reaction control system (RCS) dynamics is a plus.
- Good understanding of linear control theory. Experience in non-linear control applications is a plus.
- Derivation, analysis, and verification of GNC related requirements for spacecraft applications
- Experience in the Validation & Verification (V&V) process of a GNC system
- Some experience or exposure to GNC implementation in software for embedded applications is a plus.
- Ability to work autonomously and as part of a larger multi-disciplinary engineering team
- Experience with dealing with customers
- Ability to write and manage documentation (fluent in MS Word, MS Excel, etc.)
- English proficiency

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Esch-sur-Alzette
L-4362, Luxembourg
Assets (Nice to haves)

- Proficiency in Python, C, C++, Matlab and Simulink
- Experience in modelling spacecraft flexible modes and sloshing
- Experience in testing AOCS systems including control modes performance

Contact Info

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