AETHER

Design, Build and Launch of a Re-entry CubeSat

THE PROJECT

Aether is a team of motivated engineering students that have the ambitious goal of bringing the capabilities of sample return to the CubeSat platform. To succeed in this, we are first focussing on the creation of an inflatable heatshield. This is no easy feat, as the hypersonic re-entry creates a challenging environment for our satellite.

"A Cube-what?" you may ask. A CubeSat is a type of nanosatellite that comprised of small 10x10x10 cm cubes. This type of satellites is interesting as it is a 'cheap' platform to conduct research and testing in space.

We are currently looking for new people to join the team. You can join the team for one or two years in function of a Postgraduate program. The requirement: Having a bachelor's degree or higher.

FUNCTION

As an Embedded software engineer, your focus will lay on designing, developing and maintaining an engineering (testing) and real flight model software platform, compatible with CubeSat standards, for the in-house generated hardware products, such as the inflation system. Supervising theses with software subjects is also part of the job. You will be working in close collaboration with the Electronic Engineering Department to ensure compatibility with hardware design and overall system functionality.

PROFILE

- Proficiency in C and FPGA programming for embedded systems
- Experience with version control systems, such as GIT
- Experience with testing and debugging embedded software systems
- Desire to learn and stay up-to-date on the latest industry trends and technologies

RETURNS

- Opportunity to gain extensive hands-on experience working on a real space mission
- Chance to work with and learn from experienced professionals in the space industry
- Exposure to a wide range of technologies and systems used in the development of embedded software for space missions
- Opportunity to develop and demonstrate your skills and capabilities as an Embedded Software Engineer, potentially leading to future career opportunities in the field.

aetherspace.be

Interested? Contact us!

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