



Design, build and Launch of a Re-entry CubeSat

Function:

Telecommunications Engineer

Two open vacancies

Aether's project

The Aether Student CubeSat team brings together young Belgian engineers who are passionate about space technology. We are designing a CubeSat: a nano-satellite small enough to hold in your hand. In the past decade, the CubeSat standard has enabled countless new innovations in the space industry, and we are determined to uphold this tradition! Aether is focusing on the area of re-entry: creating the technology that will allow future CubeSats to safely re-enter the atmosphere and land on Earth after carrying out their experiments in orbit. This will allow scientists to analyze samples and get even more results out of their experiments, and all this with the affordability and accessibility that come with the CubeSat platform!

Function description

As Telecommunications Engineer you will design and develop the communication system for our CubeSat mission. You will be responsible for establishing a reliable data link between the satellite and the ground station, ensuring seamless transmission of telemetry and scientific data. Your role will include designing and implementing the RF communication system, working with antennas, and optimizing data handling strategies. You will also contribute to the development and implementation of our ground station, ensuring robust signal reception and processing. A key aspect of the role involves deciding between a separate microcontroller and PCB for communication or integrating it into a unified system. You will collaborate closely with the Embedded Electronics Engineers to ensure system compatibility and reliability.

What do you gain?

- A unique engineering experience within an exciting space mission.
- Create added value for your CV and the team.
- Improve your (soft) skills on many aspects.
- Be part of the team that will revolutionize the CubeSat platform.
- Connection to a wide network of aerospace companies.

Profile

- Minimum bachelor's degree.
- Experience with PCB design.
- Knowledge of data handling.
- Knowledge of RF communication.
- Motivated team player.



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Get in Touch



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