CubeSat recovery app

We are looking for motivated bachelor students to strengthen the Aether team.

Aether description :

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!

Project description :

After conducting the experiment in space, our satellite will land on Earth's surface. Hopefully within a radius of mostly 100km from previous predicted place. After landing the satellite will send out GPS signals containing its location. A device will capture this signal and point to the location of where the satellite landed.

Project objective :

The goal of this project is to develop an application that gets as input a continuous stream of GPS signals from the satellite and outputs the direction to the satellite. Either a web application, mobile application or even a separate dedicated device. The choice is up to you. It is important that this application is well designed so the user is able to focus on the main task, recovering the satellite.

Profile :

- User experience design
- Software development
- User interface design

What do you gain ?

- A unique engineering experience within an exciting space mission.
- Create added value for your CV and the team.
- A team of students willing to help in any way possible.
- Be part of the team that will revolutionize the CubeSat platform.