INTERNSHIP OFFER

Title: Software development for Rob3A GSE
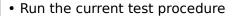
1 UNIVERSITY SPACE CENTER OF MONTPELLIER

The University Space Center of Montpellier (CSUM) is the French leader in the development and operation of nanosatellites developed by students. It has acquired in-depth competences in the field of design, manufacturing, testing and operation of nanosatellites and their subsystems, as well as in the area of space project management and product assurance in the framework of university space projects. The CSUM has an AIT (Assembly Integration and Test) Facility, a CDF (Concurrent Design Facility) and both UHF and S-band Ground Stations. The CSUM develops its own 1U and 3U CubeSat nanosatellite platforms with the support of the Van Allen Foundation and both the French and the European space agencies.

2 INTERNSHIP DESCRIPTION

Description of the tasks:

ROBUSTA-3A is a 3U CubeSat which will be able to aim at a specific point on Earth to collect environmental data. This data will be transmitted to Météo France, for them to improve the forecasting of severe storms that hit the region.

The CSUM is looking for an intern to be part of the test and validation campaign of the CubeSat. The intern will be part of a team of engineers with a variety of profiles, all dedicated to the AIT/AIV phase of the project, and will complete the following tasks:

• Run the current test procedure

• Propose and implement improvements to the current strategy based on the team needs and on previous work

- Tests automation
- Test setup
- Test reports and anomalies handling

Figure 1: Robusta 3A mission logo

Skills: Python, Git, Gitlab CI

Level: 1/2nd year of Master of Science or equivalent in electronics, embedded software, applied physics or aerospace engineering

Preferred starting date: February 2023

Duration: 2/6 months

Supervisor, Function at CSUM: Pablo Boizeau, embedded software engineer

Location of the internship: Centre Spatial Universitaire de Montpellier

Stipend: 3.90 euros/worked hours for duration between 308 and 924 hours, 35 hours/week.

3 CONTACT

Please upload your application at: https://csum.umontpellier.fr/en/job-offers-internship/