

HARNESS MANUFACTURING FOR ROBUSTA-3A

Background

The mission objective of ROBUSTA-3A Méditerranée is to demonstrate the ability of a 3U CubeSat based system to collect meteorological data onboard a ship located in the western Mediterranean Sea (between France, Spain, Italy and North Africa) and rapidly transfer this data to Météo France for storm forecasting.

The Cubesat is developed by Student as the “Centre Spatial Universitaire” of Montpellier University. Many equipment are installed inside the satellite, they needed to exchange information and power via a complex set of wires: the harness.

This harness needs to be design and manufactured in order first to test prototypes and then to assemble the flight model. It will be done in cooperation between the University of Montpellier and Latécoère Interconnection Systems, a space industry company, member of the Van Allen Foundation and established in Montpellier.

Internship Objectives

- Perform a small bibliographic research on the specific harness design for satellite
- Check and update the harness documentation
- Procure the necessary materials and tools
- Write and very the manufacturing and test documentation
- Built and test the harness
- Write the test reports and conclude on anomalies and process improvement

Internship Condition

- Open to BSc and MSc students
- Written and spoken English is a plus
- The internship will be of 2 to 6 months
 - For 6months internship other task may be added
- The internship will take place in Montpellier and Le Crès
- A report shall be written to document the work

