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ROBUSTA 3A SOLAR PANEL QM ASSEMBLY

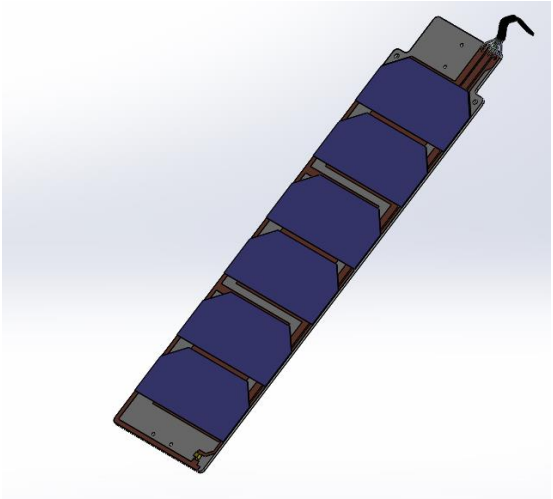
1. Background

The mission objective of ROBUSTA-3A Mediterrannée 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 students at the Centre Spatial Universitaire the Montpellier. One important part of the satellite development is the design and development of the solar array. They are made of composite supports, flexible PCBs, Hold and release mechanism from CLIX Industries, solar cells, glues and connectors.

2. Internship Objectives

- Perform a small bibliographic research on the specific aspect of satellite structural and thermal design. “Get up to speed” on the current solar panel design status
- Understand the current design and requirements
- Receive the parts and prototype that will be bough beforehand by current students, perform inspection
- Perform test on sample, and assembly level (pull test on glue, mass measurement, electrical measurement, etc…)
- Write the reports
- Procure the necessary hardware for the flight model integration



Project Condition

- Documentation shall be written in English
- Internship shall be of 3months minimum
- Internship shall start in March or April 2020