During the month of September, the Thermal Energy Control & Particle Air Filter System (TECPAFS) team started analyzing the recovered parts of the payload and the data from flight.

Team Activities

1. The Power team (PT) analyzed the boards to see if some malfunction happened during flight. Components worked as specified and as needed.
2. The Software team (CT) got the data from the HASP website and the SD card on the payload to analyze the data and verify if the data is reliable. The SD card had a malfunction, the reason is still unknown, and the full data wasn't stored on the SD card as it was supposed to.
3. The Structure team (ST) opened the payload to get all the filters and the PUF sponge out on a clean room to prevent contamination of the samples, giving them to Dr. Nedim Vardar for analyzing. Due to work on the doctor's behalf, the analysis of the sponge and filters hasn't been done yet.
4. The Thermal team (TT) has started the analysis of the temperature data on the thermal phase change boxes. Some data was lost due to problems with the telemetry systems, the data received from flight was corrupted, the data is being analyzed and getting conclusions from the data received.
5. The Communications team (CM) verified the reason why the GPS failed and all the status of the flight commands and its components. The GPs failed because of its specifications, the component wasn't space qualified. From the commands part, they worked to perfection, this commands made the difference when the GPS failed during flight.

Milestone

The TECPAFS started all the analysis after flight and tests for application on the Inter-American University CubeSat project.
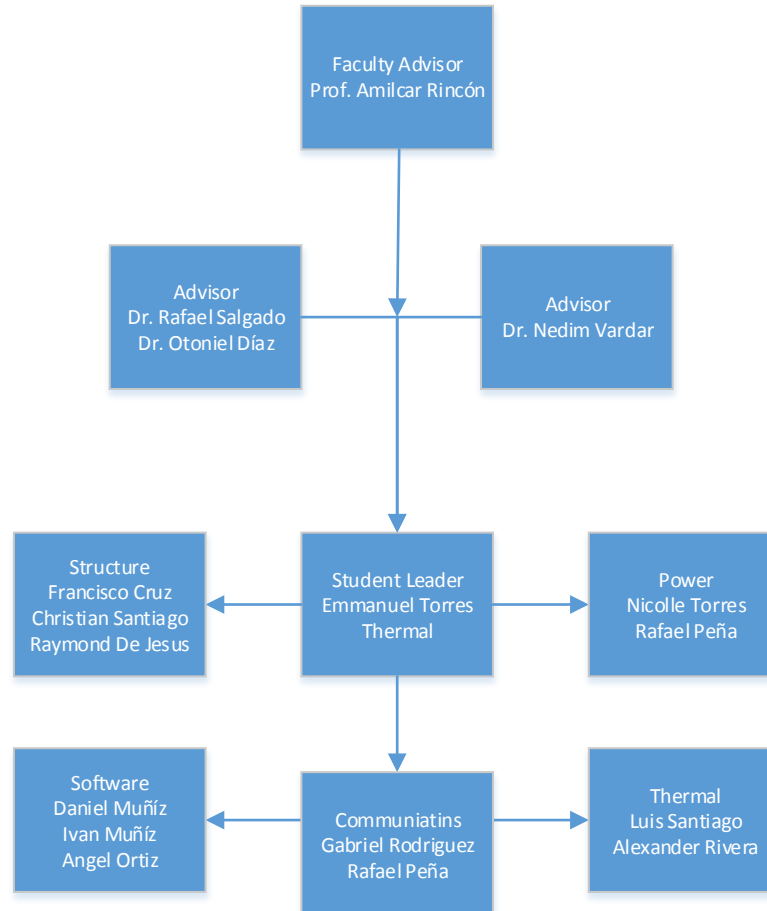
Current Team Members

The team is as follows:

Faculty Advisor
Prof. Amilcar Rincón

Advisor
Dr. Rafael Salgado
Dr. Otoniel Díaz

Advisor
Dr. Nedim Vardar

Structure
Francisco Cruz
Christian Santiago
Raymond De Jesus

Student Leader
Emmanuel Torres
Thermal

Power
Nicolle Torres
Rafael Peña

Software
Daniel Muñíz
Ivan Muñíz
Angel Ortiz

Communiatins
Gabriel Rodriguez
Rafael Peña

Thermal
Luis Santiago
Alexander Rivera

Figure 1 - TECPAFS team