



Scarlet Hawk IV

Status Report: June 2016

AIAA - IIT

Summary:

The group has worked hard to overcome the difficulties experienced recently, and with us all having busy schedules, it has been difficult to do. We have gotten the new boards put together however, and I am very pleased with the effort being put in by the team leaders. This project has not been an easy task for a bunch of undergraduate students, and I'm hoping to see our hard work pay off in the coming week!

The individual group progress is reported below.

Upcoming Deadlines:

- August 1st – Meet for integration with payload
- August 3rd – Thermal/Vacuum testing round 1

Our team structure is as follows:

Faculty Advisor: Dr. Murat Vural

Project Manager: James Henry

Team Leaders: Alan Grossman (Structural)

- Melissa Alkan
- Vaishnavi Sreenivash
- Gregory Enriquez
- Ibon Rementería
- Gina Kapadia
- Noah Griffith
- Jaime Anton

Jacob Freeman (Software)

- Ian Gustafson
- Simon Sai

Kevin Hardin (Hardware)

- Caterina Lazaro
- Leslie Villanueva
- Sergio Gil
- Timothy Bender

Structure:

The structural team's work is mostly complete, but at this point it is just a matter of the project manager and team leader keeping it constructed for the integration and flight!

Hardware:

The hardware team just recently completed a new board after the destruction of the last board, and we are hoping to do some tests prior to leaving for integration, in addition to more upon our arrival at the hotel. We are all excited for the trip down!

Software:

The software team has gotten data coming in from each of the sensors and such, but the transceivers are extremely difficult to work with. All Arduino libraries we use have had to be modified severely to correct for various errors, and there are going to be some last minute modifications to the boards to switch some pins around, as the Arduino itself does not enjoy cooperating. We are hopeful for the future and the trip though!