



# Scarlet Hawk IV

Status Report: June 2016

AIAA - IIT

## Summary:

The IIT team is working hard to get everything ready for the integration trip. The structure is still not fully completed as we had an issue with a piece of frp having a crack in it, so we are waiting on one of our members to take it to the shop and complete that. We also ran into some trouble with one of the boards. Evidently, the oscillator we are using on the communications board is malfunctioning, and is shorting the rest of the board. We are looking forward to the recompletion of the communications board so we can resume testing.

The individual group progress is reported below.

## Upcoming Deadlines:

- July 1<sup>st</sup> – New components arrive
- July 6<sup>th</sup> – Solder new communications board
- July 18<sup>th</sup> – Resume testing on board
- July 22<sup>nd</sup> – Complete all major requirements for trip to Texas.

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 Rementeria
- 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 3D printing is pretty much done, but we are more focused on the FRP that broke for the time being. We luckily had some spare sheets and we just have to wait for one of our members to be on campus and head to the shop with it.

**Hardware:**

The hardware team is eagerly waiting on the next oscillator to come in so we can put the new board together. Once the piece is in, we should be ready for another round of soldering!

**Software:**

The Arduino has been completely configured for the functioning of the boards at a minimal current draw, but we are waiting on the new comms board to run everything at once.