



Scarlet Hawk II-HASP 2014

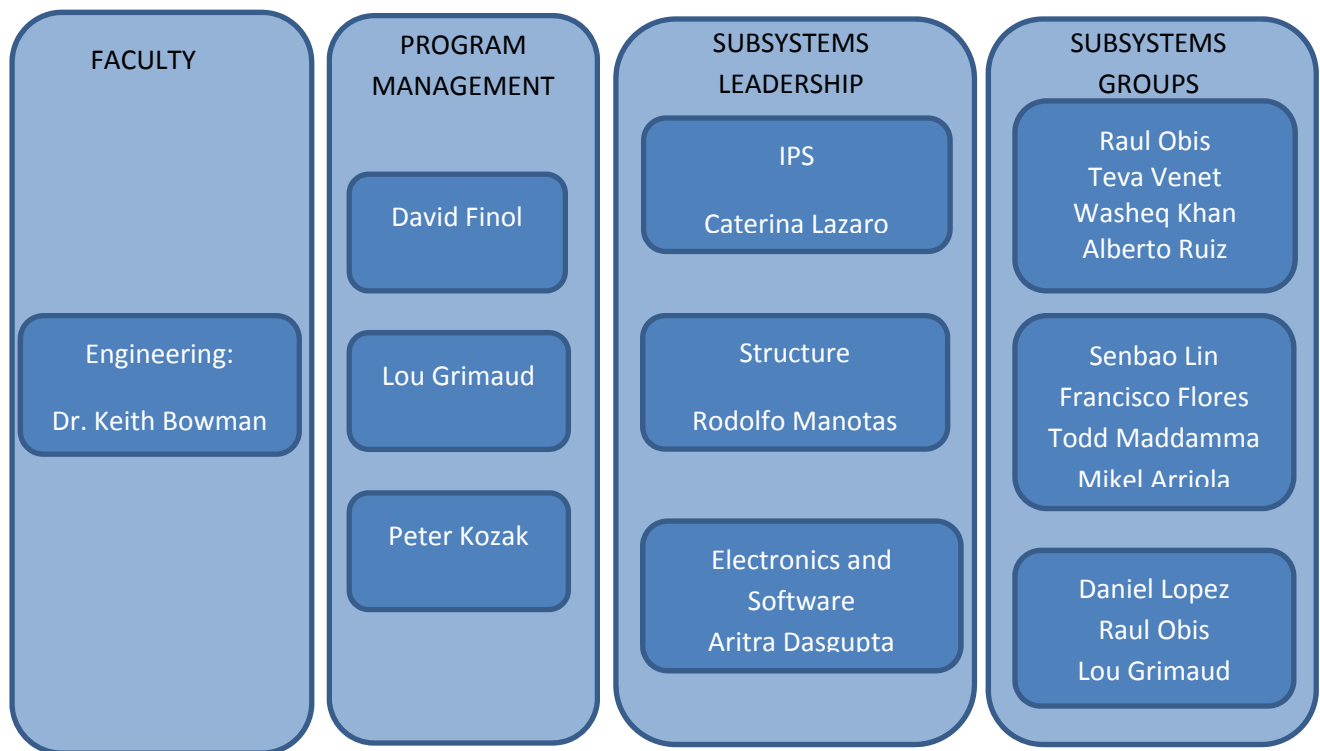
April Status Update

4/25/2014

Summary of Progress

All the teams have been steadily working on the system during the past month. However, the team only worked two weeks of this period as final exams week is approaching. The Electronic and Software team completed the entire circuit of the Maximum Power Point Tracker this month. The Independent Power System team finished the board that is going to manage the sensors on board. The structure team focused on finalizing the FRP Shields and adapting them to the main frame. The team is on schedule and will be working on the integration of the subsystems in the upcoming months.

Updated Team Structure



Electronics and Software (ES)

During the two weeks that the team was working this month, we could start integrating the sensors with the PCBs. All the required sensors were already delivered and the team started to work with them. A final board for the MPPT was finally obtained and was tested during this period. The team is then planning on focusing on subsystem integration for the upcoming month to later start testing entire subsystems.

Independent Power System (IPS)

This month the team finalized the board that is going to be in charge of the current and voltage sensing of the system. An Arduino board was integrated with the PCB that handles sensing on board and that is powered through HASP. The entire logic for data uplink and downlink was also completed. The team is now heading towards subsystem integration and testing.

Structure

During the month of April, the structure team has focused on building the FRP shields. The first FRP shield was built and tested. The main frame of the structure was also adapted to be able to leave enough room for the shields. The team will then be working to finish the adaptation of the FRP shields to the main frame and start integrating the electrical components to the structure.

Participants' Demographics

Last Name	First Name	Gender	Ethnicity	Race	Status	Disability
Ruiz	Alberto	M	Hispanic	Caucasian	Grad	NO
Dasgupta	Aritra	M	Non-Hispanic	Indian	Grad	NO
Lazaro	Caterina	F	Hispanic	Caucasian	Grad	NO
Lopez	Daniel	M	Hispanic	Latino	Undergraduate	NO
Finol	David	M	Hispanic	Latino	Undergraduate	NO
Flores	Francisco	M	Hispanic	Latino	Undergraduate	NO
Arriola	Mikel	M	Hispanic	Caucasian	Grad	NO
Obis	Raul	M	Hispanic	Caucasian	Grad	NO
Manotas	Rodolfo	M	Hispanic	Latino	Undergraduate	NO
Grimaud	Lou	M	Non-Hispanic	Caucasian	Grad	NO
Lin	Sembaq	M	Non-Hispanic	Asian	Grad	NO
Kozak	Peter	M	Non-Hispanic	Caucasian	Grad	NO
Teva	Venet	M	Non-Hispanic	Caucasian	Undergraduate	NO
Maddamma	Todd	M	Non-Hispanic	Caucasian	Undergraduate	NO
Washeq	Khan	M	Non-Hispanic	Indian	Undergraduate	NO