

**Scarlet Hawk II-HASP 2014**

**June Status Update**

**6/27/2014**

**Summary of Progress**

The entire team has been steadily working on the system during the past month. The Electronic and Software team focused on the integration and testing of the sensing subsystem. The Independent Power System team integrated the solar panels to the Maximum Power Point Tracker. The structure did not undergo any further modification during this month. The team will then be working towards final integration this upcoming month.

**Updated Team Structure**

Engineering:

Dr. Keith Bowman

FACULTY ADVISOR

David Finol

Lou Grimaud

Peter Kozak

PROGRAM MANAGEMENT

IPS

Caterina Lazaro

Structure

Rodolfo Manotas

Electronics and Software Aritra Dasgupta

SUBSYSTEMS LEADERSHIP

Raul Obis Teva Venet Washeq Khan Alberto Ruiz

Senbao Lin Francisco Flores Todd Maddamma Mikel Arriola

Mi

Daniel Lopez Raul Obis Lou Grimaud

SUBSYSTEMS GROUPS

**Electronics and Software (ES)**

The team focused on integrating the sensors to the board that contains the microcontroller. The sensing system is working properly and initial testing was done. The current levels were measured on the subsystem and everything is following HASP minimum requirements. The code that controls this subsystem was updated and will follow further updates as we approach to final integration.

**Independent Power System (IPS)**

During this month, the solar panels were tested and integrated to Maximum Power Point Tracker circuit. The sensing subsystem of our payload is still needed to be integrated with the power system and the team will focus on that the upcoming weeks. The solar panels are in the range for the expected output power and the PCB is working properly. Testing and furthering integration will be the main task for the team before going to Palestine.

**Structure**

No further changes were made to the structure during this month.

**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 | Sembao | 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 |