

June 27, 2014

**To:** Dr. T. Gregory Guzik - HASP Project Director  
**From:** Seth Frick – Team Lead  
**RE:** HASP Monthly Status Report

### **1. Activities**

Completed systems-level testing of electrical hardware.

Continued software development of the primary flight computer and secondary camera computer. Completed software for initialization of primary flight computer and hardware, and separate code to write to a microSD card in binary and started creating structures to store hardware data.

Continued working on payload structure. Near completion of the machining of all parts.

Worked on and completed Final PSIP.

Continued devising travel plans for HASP integration.

### **2. Issues Encountered**

The manufacturing and assembly of structural components was scheduled to be completed by this point, but has been delayed due to structures team members having other job commitments. Manufacturing of the payload has been taken over by the remaining students.

During testing of developed flight code, power was mistakenly applied to the wrong pin resulting in damage to the RS-232 transceiver on the interface board. Luckily, the damaged component can easily be replaced and this will not interfere with software development or testing of any other components.

### **3. Milestones Achieved**

Successfully developed working flight code on the primary flight computer.

Completed Final PSIP.

#### 4. Current Student Team

Name	Gender	Ethnicity	Race	Student Status	Responsibilities
Seth Frick	M	Non-hispanic	Caucasian	Graduate 2 <sup>nd</sup> year	Team lead, detector systems and photon energy measurement, GPS and IMU operation
Andrew Mahon	M	Non-hispanic	Caucasian	Undergraduate Senior	Detector systems, hardware configuration, and structure fabrication
Haley Rorvick	F	Non-hispanic	Caucasian	Undergraduate Senior	Structure design and fabrication, hardware configuration
Josiah DeLange	M	Non-hispanic	Caucasian	Undergraduate Senior	Flight computer and power systems, flight software
Alec Forsman	M	Non-hispanic	Caucasian	Undergraduate Senior	Flight computer and power systems, flight software
Seth Merrifield	M	Non-hispanic	Caucasian	Undergraduate Senior	Thermal monitoring and protection.
John Jackson	M	Non-hispanic	Caucasian	Undergraduate Senior	Detector energy measurement and testing