

## **HASP Monthly Status Report - March 2016**

Arizona State University - HIDRA

March 25, 2016

Student Leader: John McCulloch

Faculty Advisor: Chris Groppi

### **1. Milestones**

- Received comments on revised proposal back from HASP
- Ordered and received majority of payload components
- Began thermal-vacuum testing of components
- Began computer program testing

### **2. Summary of Activities**

The team began ordering and acceptance testing components for the payload. Once confirmation was received from HASP, the more expensive items were ordered. The team also revised and fine-tuned the mechanical drawings in preparation for exterior frame fabrication. Additionally, the team worked on troubleshooting the computer program.

### **3. Issues Encountered**

- Programming the thermal camera to take images at set time intervals without using the bluetooth phone app. When using the FLIR cable, camera responds to commands but takes images at too short of intervals.
- Needed to update mechanical drawings to account for USB cable bend by making payload taller, but still within the HASP volume and mass constraints.

#### 4. Team Structure and Demographics:

Name	Role	Status	Education	Gender	Ethnicity	Email
John McCulloch	Project Manager	Active	Undergraduate Student	Male	Caucasian	jpmccull@asu.edu
Bradley Karas	Systems/Mechanical Engineer	Active	Undergraduate Student	Male	Caucasian	amastrea@asu.edu
Alex Mastrean	Testing/Quality Engineer	Active	Undergraduate Student	Male	Caucasian	bkaras1@asu.edu
Cheyenne Howard	Science Team	Active	Undergraduate Student	Female	Caucasian	cwhowar2@asu.edu
Jacob Trahan	Software Engineer	Active	Undergraduate Student	Male	Caucasian	jrtrahan@asu.edu
Jia Zhuang	Communications Engineer	Active	Undergraduate Student	Female	Asian	jzhuang3@asu.edu
John Stone	Sensor Engineer	Active	Undergraduate Student	Male	Caucasian	jdstone7@asu.edu
Kelly Johnson	Thermal Engineer	Active	Undergraduate Student	Female	Caucasian	kejoh20@asu.edu
Nathan Wilson	Mechanical/Testing Assistant	Active	Undergraduate Student	Male	Caucasian	ndwilso4@asu.edu
Srinidhi Ravi	Science Team	Active	Undergraduate Student	Female	Asian Indian	sravi13@asu.edu
Stone Hanlon	Power Engineer	Active	Undergraduate Student	Male	Caucasian	sahanlon@asu.edu
Christopher Groppi	Faculty Advisor	Active	Professor	Male	Caucasian	cgroppi@asu.edu
Andrew Thoeson	Graduate TA	Active	Graduate Student	Male	Caucasian	athoesen@asu.edu
James Cornelison	Graduate TA	Active	Graduate Student	Male	Caucasian	jcornel@asu.edu
Candace Ashley	Science Team	Inactive	Undergraduate Student	Female	Caucasian	--
Jekan Thangavelautham	Faculty Advisor	Inactive	Professor	Male	Asian Indian	--
Erik Asphaug	Faculty Advisor	Inactive	Professor	Male	Caucasian	--