

## May 2014 HASP Monthly Report ASU - HAVEC

### 1) Issues encountered during payload design / development:

- Considering the use of one IR camera and one other than IR
- Tilt compass software failed to integrate within Arduino master code
- Still awaiting delivery of camera power cable
- Power consumption issues may be addressed by adding a battery to power the heaters and take pictures in turn

### 2) Activities of the team members:

- Camera calibration in progress
- Wiring harness construction in progress

### 3) Milestones achieved:

- Component mounting layout finalized
- Power system diagram tentatively finalized
- Aggregate master software operational

### 4) Evaluation of progress:

Development nearing final assembly. Pending final assembly and testing, the payload should be completed by the end of July.

5) Current team members and leaders:

Demographic Legend: [Ethnicity] [Gender] [Age] [Major]

\*\* Some members did not feel comfortable disclosing all demographics

Advisor: Srikanth Saripalli <[Srikanth.Saripalli@asu.edu](mailto:Srikanth.Saripalli@asu.edu)>

Leader: Michael Mein <[mmein@asu.edu](mailto:mmein@asu.edu)> Arduino Interface

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Sepideh Jafarzadeh <[sjafarza@asu.edu](mailto:sjafarza@asu.edu)> Thermal Management

Persian Female 23 Earth & Space Exploration

Itxier Meziani <[imeziani@asu.edu](mailto:imeziani@asu.edu)> Orientation Detection

Female Earth & Space Exploration

Ahmet Deran <[Ahmet.Deran@asu.edu](mailto:Ahmet.Deran@asu.edu)> Power Distribution

Turkish. Male. 39.

Exploration Systems Design & Aerospace Engineering.

Michael Ayual <[Michael.Ayual@asu.edu](mailto:Michael.Ayual@asu.edu)> Data Storage

Male Earth & Space Exploration

Nicholas Aldana <[nickaldana@gmail.com](mailto:nickaldana@gmail.com)> Mechanical Design Position

Detection

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Nicholas Knaus <[32lateralus@gmail.com](mailto:32lateralus@gmail.com)> Serial Communications

Male System Design

Weston Wands <[Weston.Wands@asu.edu](mailto:Weston.Wands@asu.edu)> Camera Operations

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