



HASP 2018 Monthly Status Report

Report Month: February 2018
Submitted by: Patrick Gagnon
Submit Date: 02/ 24 / 2018
Institution: College of the Canyons
Payload Number: 2018-02
Payload Name: SOLARIS

I) Activities During Previous Month:

In January the SOLARIS Team awaited approval of HASP application and began work on the requested revisions. Through our advisor's efforts and relationship with the board of trustees, we acquired full funding for the production costs of the payload.

II) Issues Encountered:

The SOLARIS Team is still trying to acquire funds for travel. There was a discrepancy with the cost breakdown versus preliminary budgeting that required a reevaluation of certain vendors and parts. The Team's main computers encountered issues which resulted in several sections of the proposal revision to be initially lost. Monthly status report was not submitted on time.

III) Milestones Achieved:

In choosing new vendors for certain components the payload is now under budget and has allowed the team to complete the full purchase list for two payloads; one prototype to use as a test platform and the other for a completed, flight ready payload. Our proposal revision was reconstructed and sent out before the deadline. First official meeting was held, and many team members attended. The team has recruited three new members and the software team is taking shape. A robust parts order list has been completed and part orders are slated to begin next week. Many vendors overlap from previously used sources, this will expedite the arrival of payload components.

IV) Plans for Coming Month:

For the month of March, SOLARIS will eagerly be waiting for the first round of parts to arrive. The mechanical team will take shape and our advisor will be consulted to help guide the team in the early stages of fabrication. We hope to have a fully developed chemical and software team that can begin preliminary testing on solution reactions and begin the backbone for the payload's software. Team leadership was addressed at our first official meeting and interested candidates will be considered for selected team management roles based upon a set of certain criteria determined by the project manager and chief engineer and voted upon by the entire SOLARIS team.

3D printing of the payload will serve as a full-scale mock-up of the payload to be used at outreach events and fundraising campaigns. The 3D printing will also serve to test certain flight components for quality, so the appropriate changes can be made to the CAD files before the final versions are produced. Team SOLARIS will also begin considering how testing will be organized and performed as well as how to implement them into our deadlines. Newly Established team leads will work in

conjunction with the chief engineer and project manager to work on other important documentation like the PSIP to assure it is ready prior to the deadline on April 24 2018. We are hopeful that our latest revision of the proposal addressed every concern adequately, if however, that is not the case, the team will stand by for further review requests and revise any additional concerns.

Because of the missed status report deadline, the project manager will update the entire team on the proper method for filling out a monthly status report along with the due dates. This will assure multiple sources are tracking the progress of these required submissions in case of emergencies.

V) Other Comments:

Patrick Gagnon, the Project Manager, has been ill during the week of the status report deadline. The above plan will guarantee that the whole team remains informed and knowledgeable in the logistics of the project and that in the event of an emergency, deadlines can still be met. This was an unforeseen event and I apologize for not having something in place sooner.

VI) Team Composition and Organization:

Name	Start Date	End Date	Role	Student Status	Race	Ethnicity	Gender	Disabled
Patrick Gagnon	09/01/17	N/A	Project Manager	Undergrad	Caucasian/African American	American	Male	No
Charles H Napier	09/01/17	N/A	Chief Engineer	Undergrad	Caucasian	American	Male	No
Teresa Ciardi	09/01/17	N/A	Logistics Advisor	N/A	Caucasian	American	Female	No
Greg Poteat	09/01/17	N/A	Mechanical Advisor	N/A	Caucasian	American	Male	No
Daniel Tikhomirov	09/01/17	N/A	Electrical team/Software Team	Undergrad	Caucasian	American	Male	No
Kyle Strickland	09/01/17	N/A	Electrical Team	Undergrad	Caucasian	American	Male	No
Phillip Bonnell	09/01/17	N/A	Chemical Team	Undergrad	Caucasian	American	Male	No
Minerva Cordoza	09/01/17	N/A	Systems Team	Undergrad	Hispanic	American	Female	No
Arthur Berberyan	09/01/17	N/A	Chemical Team	Undergrad	Caucasian	American	Male	No
Richard Lopez	09/01/17	N/A	Electrical Team	Undergrad	Hispanic	American	Male	No
Raoul Venegas	09/01/17	N/A	Electrical Team/Mechanical Team	Undergrad	Hispanic	American	Male	No
Nicole Arango	09/01/17	N/A	Chemical Team	Undergrad	Hispanic/Caucasian	American	Female	No

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