HASP 2018 Monthly Status Report

Report Month: January, 2018
Submitted by: Patrick Gagnon and Hunter Napier
Submit Date: 01/ 26 / 2018
Institution: College of the Canyons
Payload Number: 2018-02
Payload Name: SOLARIS

I) Activities During Previous Month:

While waiting for the approval during the months of December and January, most of the focus of the team was spent on securing funding and discussing budget concerns.

II) Issues Encountered:

Although securing funds to build, test, and secure components for the payloads is viable through sources provided by the College, the travel budget is more difficult to secure due to the travel restrictions placed on Texas by California legislation. No school funds may be used for this purpose and outside donations or funding will need to be secured.

III) Milestones Achieved:

Funds for the payloads as mentioned have been secured and now that preliminary approval has been granted, the team can move forward with purchasing components and materials.

The email for preliminary approval was delivered today and moral from the news is high.

IV) Plans for Coming Month:

Currently, the team is beginning to address the items brought forward in the application review that we received. Specifically, as per suggested, the current linear regulator design will be investigated and most likely be replaced with the DC/DC converters used by HASP in previous years. Additionally, the overall goal of the project, while remaining the same, will be reworded to better clarify the relation of the project to the specific levels of certain acids present and measured during the flight. The purpose and importance of the spectroscopy measurements will be clarified as well. The revised proposal will also contain a more thorough understanding of everyday team dynamics, meeting times, and personnel involved.

Purchasing of components and materials will begin as soon as possible to prevent any problems with back ordering, availability, or shipping complications. Discussion with our mechanical advisor will begin to determine the schedule and availability of using the fabrication shop to begin work on a prototype test payload.

Software and systems teams will also need to begin formulating a full plan of action regarding the goals required for the project in coding, data delivery, and cross software integration.

After a meeting time has been discussed and a common timeslot has been voted on, they will become a weekly objective. Discussion and drafting of a master timeline has already begun, which will work to ensure that design freezing, team objectives, and deadlines are adhered to.

V) Other Comments:

Thank you for your consideration and preliminary approval. We are excited to begin work on fabrication and eventually to integration and flight.

VI) Team Composition and Organization:

Name	Start Date	End Date	Role	Student Status	Race	Ethnicity	Gender	Disabled
Patrick Gagnon	09/01/17	Present	Project Manager	Undergrad	Caucasian/African American	White American	Male	No
Charles H Napier	09/01/17	Present	Chief Engineer	Undergrad	Caucasian	White American	Male	No