



HASP Monthly Status Report

Report Month: February 2023
Submitted by: Elsa Carreras
Submit Date: 02/ 24 / 2023
Institution: Cu Boulder Space Grant
Payload Number: 2023-03
Payload Name: LunaSat Testbed

I) Activities During Previous Month:

We had one internal review CoDR, and we have done our practice PDR, built a foam structure of what we will develop, decided on materials, and now are trying to find ones that fit the budget. We have also decided to add more downlink and uplink commands; leadership interviewed candidates to fill the CS position when one of the team members left in December; they have been onboarded and are contributing to the work, and the new members have started on the GLEE workshop that all team members are required to do the GLEE workshop consists of 11 modules which take about 6-8 hours depending on the person and our system engineer worked with one of our internal mentors who as four years of experience in Space Grant to write down requirements for this mission. Our system engineer wrote Level 1 requirements based on constraints imposed by the HASP platform and our objectives.

II) Issues Encountered:

Deciding about the Buck converter since we are going to have radio frequency.

III) Milestones Achieved:

Internal CoDR, started software and practice internal PDR.

IV) Plans for Coming Month:

Internal PDR, starting building, Starting software, and testing/ building components.

V) Other Comments or Questions for HASP Management:

How can we make sure the buck converter does not affect our radio frequency test?

Name ⁽ⁱ⁾	Start Date	End Date	Role	Student Status	Race⁽ⁱⁱ⁾	Ethnicity⁽ⁱⁱⁱ⁾	Gender ⁽ⁱ⁾	Disabled
Veronica Corral Flores	9/9/22	Present	Faculty Advisor	Faculty	Mixed race	Hispanic	Female	No
Mary Hanson	9/9/22	Present	Faculty Advisor	Faculty				
Elsa Carreras	9/9/22	Present	Project Manager	Undergrad	White	Non-Hispanic	Female	Dyslexia
Benjamin Hellem	9/9/22	Present	Systems	Undergrad			Male	
Chloe Zentner	9/9/22	Present	Structures lead	Undergrad			Female	
Chris Brown	9/9/22	Present	Avionics lead	Undergrad			Male	
Hallie Hill	9/9/22	Present	Structures Member	Undergrad	White	Non-Hispanic	Female	Celiac Disease
Nicholas Mueller	9/9/22	Present	Structures Member	Undergrad	White	Non-Hispanic	Male	No
Brice Parrott	9/9/22	Present	Avionics Member	Undergrad			Male	
Zack Goldberg	9/9/22	Present	Avionics Member	Undergrad			Male	
Jack McDonald	2/8/23	Present	Avionics Member	Undergrad			Male	
Emanuele Rimini	2/8/23	Present	Avionics Member	Undergrad	White	Italian	Male	No
Sebastian Vargas	9/9/22	12/12/22	Avionics Member	Undergrad			Male	

- i. Current NASA guidance requires information from up to date legal documentation (for instance, Driver's License, Passport)
- ii. Accepted options include African-American/Black, Asian, American Indian/Alaskan Native, Native Hawaiian, Pacific Islander, White
- iii. Accepted options are Hispanic on Non-Hispanic.