



HASP Monthly Status Report

Report Month: May, 2023
Submitted by: Derek Peraza
Submit Date: 5 / 26 / 2023
Institution: College of the canyons
Payload Number: 2023 -09
Payload Name: Sol Seeker

I) Activities During Previous Month:

- Change in stepper motors from Nema 24's to Nema's 17's. due to struggles dealt with Nema 24's
- testing thermistors on teensy 4.1
- 3d modeling cameras and scopes for mount

II) Issues Encountered:

- Nema 24's wouldn't run properly and drew too much power
- Thermistors, failed to work on teensy 4.1

III) Milestones Achieved:

- Nema 17 stepper motor's work well
- 3d modeled cameras and scopes for mount

IV) Plans for Coming Month:

- Machining of mount
- using thermistors on our raspberry pi
- more testing on Nema 17 stepper motor's
- testing thermistors on teensy again, if it fails again then we will test them on the Raspberry pi instead

V) Other Comments or Questions for HASP Management:

- Replacement in project manager, from Melissa Rocha to Derek Peraza

VI) Team Composition and Organization:

Name	Start Date	End Date	Role/Academic Year	Race	Ethnicity	Gender	Disabled
Project Management							
Teresa Ciardi	Fall 2015	Present	Logistics & Science Faculty Advisor	White	N/A	Female	No
Greg Poteat	Winter 2016	Present	Machining Faculty Advisor	White	N/A	Male	No
Amy Foote	Fall 2015	Present	Recruitment MESA Director	White	N/A	Female	No
William Harwood	Spring 2023	Present	Industry Professional-Aerospace Engineer	White	N/A	Male	No
Derek Peraza	Summer 2022	Present	Project Manager Undergrad	N/A	Hispanic	Male	No
Maranda Laws	Fall 2021	Present	Assistant Project Manager Undergrad	White	N/A	Female	No
Engineering Team							
Clarissa Zuo	Summer 2022	Present	Mechanical Lead High School/ Undergrad	Asian	N/A	Female	No
Derek Peraza	Summer 2022	Present	Electrical Lead Undergrad	N/A	Hispanic	Male	No
Drake Lovelady	Summer 2022	Present	Coding/Software Lead Undergrad	White	Hispanic	Male	No
Terry Guerrero	Fall 2021	Summer 2022	Mechanical Team Member Undergrad	White	Hispanic	Female	No
Miguel Paz	Fall 2022	Winter 2023	Mechanical Team Member Undergrad	N/A	Hispanic	Male	No
Isaiah Romero	Fall 2021	Present	Software Undergrad	N/A	Hispanic	Male	No
Marketing / Media							
Marni Kallestad	Winter 2022	Present	Marketing Lead Undergrad	White	Hispanic	Female	No

Gabriel Jimenez	Spring 2022	Fall 2023	Marketing Co-Lead Undergrad	N/A	Hispanic	Male	No
Tawshia Chowdury	Winter 2023	Winter 2023	Marketing Co-Lead Undergrad	Asian	N/A	Female	
Arely Castillo	Spring 2021	Present	Marketing/Media Team Member Undergrad	N/A	Hispanic	Female	No
Mentor Team							
Sarah Boyer	Fall 2021	Present	Mechanical/ Electrical Mentor Undergrad	White	N/A	Female	Yes
Shawn Ford	Winter 2019	Present	Mechanical/ Electrical/ Software Mentor Undergrad	White	N/A	Male	No
Patrick Gagnon	Summer 2021	Present	Mechanical/ Project Management Mentor Undergrad	White/ African-American/ Asian	N/A	Male	Yes
Brandon Gelfand	Fall 2016	Present	Electrical / Software Mentor Undergrad	White	N/A	Male	No
Daniel Larimer	Spring 2019	Present	Mechanical/ Electrical Mentor Undergrad	White	N/A	Male	No
Andrew Nowakowski	Spring 2022	Present	Electrical/ Software Mentor Bachelor's Business Management & Computer Science	White	N/A	Male	No
Svarun Soda	Fall 2021	Present	Software/ Electrical Mentor Undergrad	White	N/A	Male	No
Consulting Team The Local Group Astronomy Club of Santa Clarita Valley, California							
Dave Flynn	Fall 2022	Present	Lead Engineering Consultant	White	N/A	Male	No
Glenn Basore	Fall 2022	Present	CAD design Consultant	White	N/A	Male	No

Abhishek Khanna	Fall 2022	Present	Astrophotography Consultant	Asian	N/A	Male	No
Robi Mukherjee	Fall 2022	Present	Mechanical Consultant	Asian	N/A	Male	Yes
Vahid Talaie	Fall 2022	Present	Software Consultant			Male	No