



# HASP 2021 Monthly Status Report

**Report Month:** May  
**Submitted by:** Ismael Hernandez  
**Submit Date:** 05 / 24 / 2023  
**Institution:** Fort Lewis College  
**Payload Number:** 2023-04  
**Payload Name:** FLC Ionizing Radiation vs. Solar Insolation (IRSI) Experiment

## I) Activities During Previous Month:

- Verified that pre-existing code still worked for the subsystems.
- Tested previous Geiger Counters to confirm their functionality.
- Began working on I2C for subsystem components.
- Began creation of Printed Circuit Boards (PCBs) for subsystem components.
- Began debugging pre-existing code for camera.
- Acquired some components needed for the HASP project.

## II) Issues Encountered:

- Some components are still being shipped to Fort Lewis College.
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## III) Milestones Achieved:

- Completed organization of workspace.
- Some components needed for testing have been shipped in.

## IV) Plans for Coming Month:

- Complete creation of PCBs and order them.
- Begin creating a prototype of HASP device.
- Develop final CAD drawings of HASP device for Waterjet.
- Verify that debugging was successful for camera code.
- Continue to test previous Geiger counters.
- Fix previous COMMS code to work with new components.

## V) Other Comments:

## VI) Team Composition and Organization:

<b>Name</b>	<b>Start Date</b>	<b>End Date</b>	<b>Role</b>	<b>Student Status</b>	<b>Race</b>	<b>Ethnicity</b>	<b>Gender</b>	<b>Disabled</b>
Ismael Hernandez	1/1/23	Present	Mechanical	Undergrad	White	Hispanic	Male	No
Simone Gorman	1/1/23	Present	Electrical	Undergrad	Native American	Non-Hispanic	Female	No
Jerry Jack	1/1/23	Present	Software	Undergrad	Native American	Non-Hispanic	Male	No
Miles Johnson	1/1/23	Present	Mechanical	Undergrad	Native American	Non-Hispanic	Male	No
Brandon Engle	12/1/22	Present	General Support	Recent Graduate	White	Non-Hispanic	Male	No
Charles Hakes	12/1/22	Present	Advisor/Space Grant Affiliate	Faculty	White	Non-Hispanic	Male	No