



HASP 2023 Monthly Status Report

Report Month: February 2023
Submitted by: Dr. Nirmal Patel
Submit Date: 02 /24 / 2023
Institution: University of North Florida
University of North Dakota

Payload Number: 2023-07
Payload Name: Measurements of Ozone in the Troposphere and Stratosphere

Payload Short Name: Ozone Sensors Payload – OSPrey

I) Activities during Previous Month:

- (i) The team started reviewing the payload fabrication work done earlier, issues and failures of hardware and software and science reports of the last year HASP balloon flight 2022.
- (ii) Team received the comments on HASP 2023 proposal from Mr. Douglas Granger. We are sincerely grateful to him and all reviewers for their appreciation and useful comments to improve our work. Please find attached file with this report for our answers to the comments.
- (iii) Team added few more students.
- (iv) Team formed UNF-HASP “WhatsApp” group for the faster communications by text messages and video conference.
- (v) Team is also working on “National Eclipse Ballooning Project”. Four students are funded by FSGC.

II) Issues Encountered:

None

III) Milestones Achieved:

Conceptual Design Review (CoDR) for sensors, electronic circuits, software, and payload.
Reviewing science reports and issues of previous HASP flights.

IV) Plans for Coming Month:

Preliminary Design Review (PDR) for sensors, electronic circuits, software, payload, integration of payload with HASP and data analysis.

V) Other Comments:

None

VI) Team Composition and Organization:

University of North Florida								
Name	Start Date	End Date	Role	Student Status	Race	Ethnicity	Gender	Disabled
Miguel Bolante	01/09/2023	Present	Leader, EE, Communications Sensors	UG-EE	Caucasian /White	Hispanic	Male	No
Diego Fontan-Ulibarri	01/09/2023	Present	Payload design and body	UG-Civil/ME	Caucasian /White	Hispanic	Male	No
Lovely Ramos	01/09/2023	Present	EE Microcontroller Circuits and Data Analysis	UG-EE	Asian-Filipino	Non-Hispanic	Female	No
David Medis	01/09/2023	Present	EE Microcontroller Circuits and Data Analysis	UG-EE	Caucasian /White	Non-Hispanic	Male	No
Haris Smajic	01/09/2023	Present	EE Microcontroller Circuits and power budget	UG-EE	Caucasian /White	Non-Hispanic	Male	No
Aryan Patel	02/01/2023	Present	Software - Programming Payload design and weight budget	UG-Computer	Asian-America	Non-Hispanic	Male	No
Colin Ott	02/01/2023	Present	EE-Circuits, sensors, and integration	UG-EE	Caucasian /White	Non-Hispanic	Male	No
Dustin Leonard	02/01/2023	Present	EE-Circuit board and components work	UG-EE	Caucasian /White	Non-Hispanic	Male	ADHD
Elric Burch	02/01/2023	Present	EE-Sensors and payload thermal budget	UG-EE	White-Cherokee	Non-Hispanic	Male	No
University of North Dakota								
Sam Reams	01/09/2023	Present	Space Studies	Master-Space Studies	Caucasian /White	Non-Hispanic	Male	No