

Gannon University HARD payload

Status Report #2

2/22/2013

1. Achievements/Work in Progress

- Acquired or placed orders for most electronic and hardware components needed to build a new HARD payload for HASP 2013. Orders for a new high-altitude GPS board and a set of step-up DC-DC converters will be soon placed.
- Completed and submitted a Response to the Payload Summary, addressing questions and concerns raised by the HASP project administration team.
- Finished testing functionality high-frequency op-amp boards.
- Work in progress for testing of photomultiplier and its multiplier boards using a light source based on an in-house LED driver circuit. This test is to hand-pick best four photomultipliers for the payload operating with the 30 Vdc HASP power supply.
- Started work of construction of physical payload
- Completed minor revisions to microprocessor codes.

2. Issues

- No technical issues at this time

3. Next Steps

- Finish photomultiplier testing
- Begin work on the Comparator module
- Continue work on construction of HASP 2013 payload framework
- Fully test and revise codes for SD card and E-compass

4. Current team members and leader

Aaron Neiman, Computer Engineering (HASP 2013 Team Lead)
Bennett, Joseph, Electrical Engineering
Codi Wasser, Computer Engineering
Kelvin Joefield, Electrical Engineering
Yousef Samkari, Electrical Engineering
Abdul Rahman Alzaabi, Electrical Engineering

Dr. Wookwon Lee, ECE Faculty Advisor
Dr. Nicholas Conklin, Physics Faculty co-advisor
Prof. Donald MacKellar, ECE Faculty co-advisor