

# Gannon University HARD payload

Status Report #4

4/26/2013

## **1. Achievements/Work in Progress**

- We are using last year's comparator chip but are testing with a different circuit
- Combined Scintillator, photomultiplier and op-amp into one unit for final payload construction
- Successfully constructed and tested DC-DC step-up converted to convert HASPs 30v to 40v for our system.
- Revising code for payload commands and finalizing all other code.
- Finished work on construction of HASP 2013 payload framework.

## **2. Issues**

- No major issues.

## **3. Next Steps**

- To finish integration of Comparator unit with Photomultiplier and its amplifier board (4 sets)
- To integrate PMs, amplifiers, and scintillators, and finish lab testing & verification.
- Finish construction of HASP 2013 payload.

## **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

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