

Gannon University GU-CRC#2 payload

Status Report #1

1/29/2014

1. Achievements

Work continued to get the initial payload functionality of various payload subsystems:

- Verified operation of MCU Interface board, including ADC readout
- Peak Detectors and Integrators assembled into final stacks
- Verified the Trigger Logic's pin mapping
- Began construction of payload enclosure
- Selected appropriate serial-controlled power relay to provide payload On/Off capability
- Designed Printed Circuit Boards (PCB) for power distribution

2. Issues

- None at this time

3. Next Steps

- Complete construction of payload enclosure
- Finalize the MCU code
- Fabricate PCBs for power distribution
- Test power relay
- Assemble detector inside payload enclosure
- Final subsystem integration

4. Current Team Roster

Leslie Moukoro, Electrical Engineering (*Project Manager*)

Engineering Team:

Lanise Saunders, Electrical Engineering
Brandon Lawrence, Electrical Engineering
Donovan Starks, Electrical Engineering
Kaitlyn Babiarz, Electrical Engineering
Daniel Winge, Computer Engineering
Codi Wasser, Computer Engineering
Aaron Stearns, Mechanical Engineering
Ryan Mong, Computer Engineering

Science Team:

Jenn Hu, Pre-med (*Science Team Lead*)
Paul LeVann, Math

Dr. Wookwon Lee, ECE, Faculty Advisor

Dr. Nicholas Conklin, Physics, Faculty Co-Advisor