

OLite Progress Report

June 29, 2010

Team Activities

Progress by Subsystem

- Mechanical – After nearly 2 months of delay on the part of our source, the sun sensor boxes arrived this week. These make up the final major component of the mechanical subsystem.
- Power Subsystem – No new progress, some sensor calibration remains but the boards are flight ready.
- CDH Subsystem – All flight hardware has been tested individually in the integrated configuration, over the next few weeks will see a full test of flight duration.
- Comm Experiment – The comm experiment has resolved its 900 MHz transmission spurs and is now transmitting within spec. Data uplink through this radio has been descoped. The controller is an FPGA, and the original programmer is not able to support development over the summer. All major measurements can be made on the ground side to verify the link and uplink testing can be done on the ground.
- Power Experiment – As of last month the power experiment was complete and waiting for thermal and vacuum testing in the integrated package.
- Ground Station – All components have been received. Currently planning to test the receive capability over the next two weekends.
- GNC Experiment – The GNC experiment this past week demonstrated the operation of the sun sensors within the integrated system now that the sun sensor boxes are in.

Design/Development Issues

Manpower at Penn State has been an issue due to Space Grant being slow to allocate funding (trickle down from NASA being slow). As of this writing we are partially through the hiring process for two to three students for the remainder of the summer.

Milestones

N/A

Current Leaders

Project Management	Allen Kummer
Systems	Phil Weir
Mechanical	Corey Friedenberger
Power Subsystem	Alex Hackett
Command and Data Handling Subsystem	
Hardware	Eric Root
Software	David Zhang
Guidance Navigation and Control Experiment	Alex Malone
Communications Experiment	
Radio	Steve Devore
Antenna	Scott Pfeiffer
Power Experiment	Alex Hackett

*Full list of participating students available on request

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