

OLite 2 Progress Report

March 25, 2011

Team Activities

The OLite 2 team has been focusing this past month on finalizing designs, building prototypes and getting final flight boards ready to send out. This past week, the CDH, PWR regulation, battery and COM boards were ordered and are expected to arrive April 1st to begin population and test. This leaves the GPS and solar panel boards to be completed in the coming week.

The mechanical team has completed their prototype of O2 and are moving to producing the flight components.

The CDH team has built up two protoboards and are using them with OLite to develop the flight software for O2. They are currently evaluating NAND memory modules. The selected NAND has been obsoleted and thus a new one needs to be selected but the last attempt at doing so was met with compatibility problems.

The thermal team is analyzing data from their last OLite thermal test and continuing to develop the models to describe O2.

The communications team has populated their board and has tested the FPGA, and transceiver programming. Various components along the RF path have been independently tested.

OLite remains on the bench and is operationally ready to go. It is being used to verify new hardware as part of the redesign process for OLite 2. Through the process, OLite's functional capabilities are being maintained.

Design/Development Issues

N/A

Milestones

Subsystem level CDRs have been completed and the subsystems are moving to production.

Current Leaders

Project Management	Allen Kummer
Mechanical	Matt Becker
Power Subsystem	Alex Hackett
Command and Data Handling Subsystem	David Zhang
Guidance Navigation and Control Experiment	Andrew Palski
Communications Experiment	Steve Devore
Ground Station	Josh Miller
Power Experiment	Alex Hackett
Thermal	Michael Boeckel

*Full list of participating students available on request

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