



University of Maryland
June 2012 Status Update

HASP 2012: StratoPigeon III

1. Activities of Team Members

Progress has been made by the electronics, mechanical, and software teams. The mechanical team has finalized the new casing design for the HASP payload, which is currently in the final stages of production. Upon arrival, the team will coat the enclosure with a high emissivity and low absorptivity rated paint in order to protect the electronics from heating in the upper atmosphere. Holes will also be drilled for top plate attachment.

The electronics team has completed and ordered the final revision of electronics. The balloon track software has been tested and utilized with Google Earth as a flight prediction path and landing procedure. We are currently trying to integrate real-time descent predictions into the software, but as of now, the software is of enough familiarity with the team to be implementable for an actual flight.

2. Issues Encountered During Design

Our timeline for this month has been slightly affected by delays in the manufacturing of the enclosure. The order and production process took longer than anticipated and, as a result, has influenced some of this month's progress. The test flight for June's Target Milestones has been rescheduled for July 14th.

3. Milestones Achieved in June

- a. Continued software development
- b. Ordered 2nd revision of custom flight electronics
- c. Ordered payload enclosure

July Target Milestones

- d. Complete final assembly
- e. Test flight in mid July

- f. Complete real-time prediction software
- g. PCBs populated and tested
- h. Full revision 1 of flight software completed

4. Current Team Members and Leaders

Team Members who will be actively participating in our HASP Payload development are as follows:

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