



ASU - High Altitude Turbine Project (HATS)

Project Update : **May '12**

Date: 5/25/12

Project Manager: Patrick McGarey Contact: aeropat@gmail.com // 602.300.5441

Summary:

With the end of the semester, the HATS team worked diligently to demonstrate a fully operational and independent payload for the purposes of our senior design review. Overall we have a greater understanding of the advantages and limitations of our system, which will allow us to further prove our payloads robustness. With the end of the semester, graduation, and the beginning of summer, progress in May has been slow. June should be much more productive, as we continue to work through the shortcomings of our system and improve upon the design. Key members of our team have agreed to work throughout the Summer to insure mission success in Fall. Our next focus will be on the successful integration with HASP communications and power via the Flight Integration Plan.

Key Accomplishments:

- Demonstration of full system collecting and transmitting data
- Simultaneous operation of all onboard sensors
- Creation of Matlab algorithms for parsing and data analysis
- Design of two test airfoils for testing purposes

Upcoming Tasks:

- Final light Integration Plan
- Protocol for system bring up and test during integration
- Consolidate electronics onto PC board
- Fully calibrate sensors using testing facilities (wind tunnel, freezer, EM, etc.)

-Patrick McGarey // Project Manager