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Hatchling II

Embry-Riddle Aeronautical University

June Status Report

Activities of Team Members

June saw the completion of the PSIP, a joint effort between both halves of the HASP team. The *Phoenix* team finished their code after installing all electrical components, and began testing their payload in a thermal chamber. The *EagleSat* team made progress with their module, working on their antennas, EPS, and payload components as they also near the testing phase.

Issues Encountered in Payload Design

It was discovered that holes on the bottom of the *EagleSat* structure were too close together, leading to issues in being able to hold the structure together, and to the *Phoenix* module. After a redesign, the *EagleSat* structures team has ordered the necessary parts to fix this issue, and to make sure that the two modules will be able to connect with no issues.

Milestones Achieved

The *Phoenix* team completed the code to operate their components, and began testing their components in the thermal chamber on campus. There appears to be few temperature-related issues, and the insulation in the module is being fine tuned for optimal performance. The *EagleSat* team tuned the antenna for their crystal radio, in order to make sure Payload B would be functional in time for integration and the HASP flight. Also, work continued to resolve slight issues with the *EagleSat* structure, and to complete the EPS and antennas needed for the flight.

Current Team Members

Below is an organization chart of the current team.

