



SCARLET HAWK I – HASP 2013

**July Status Update
07/26/13**

INTRODUCTION

Summary of progress

This month the AIAA-IIT team completed final testing of SCARLET HAWK I and preparation for integration in Palestine, TX. The Flight Operation Plan was developed and the final structural analysis was completed, showing that the payload structure exceeds HASP regulations by a significant factor of safety. The Reed-Solomon algorithm and the general code was refined and all issues are expected to be resolved. Since there will be no AIAA-IIT members on the flight line during launch, the remainder of August will be spent further developing post-processing code that will be used to stitch together JPEG images as they are transmitted.

Upcoming deadlines

- July 29: Completion of the FLOP
- July 29: Delivery of SCARLET HAWK I and payload integration
- August 27: Flight operations start for HASP 2013

Updated Team Structure

Project Manager: Peter Kozak

Faculty Adviser: Keith Bowman

GPS & Comm.

Aniruddha Katre (Subgroup Leader), Raisa Vitto, Lou Grimaud, Collin Rutenbar

Electronics and Sensing

Shalmik Borate (Subgroup Leader), Peter Kozak, Raisa Vitto

Image Processing

David Finol (Subgroup Leader), Rodolfo Manotas, Corey Page, Collin Rutenbar, Abdulrhman Arnaout

Structure

Miguel Javier (Subgroup Leader), Manpreet Singh

QUESTIONS FOR HASP COORDINATORS

- During the flight when AIAA-IIT requires that a command be sent to the payload, what is the exact format of the email that should be sent to HASP coordinators?
- How much time in advance will we be notified of a final flight date/time?