

University of Bridgeport
HASP Status Report
April Status Report
Submitted May 3, 2016

Submitted: Bashar Alhafni: Team Leader

Team Activities:

Apologies: We were so focused on completing the PSIP that we neglected to submit the April status report.

PSIP:

The team's complete focus was revising the diagrams, enhancing the system and completing the PSIP which was submitted on April 29, 2016.

Build:

At this point unless some aspects need refinement or revision we have all the parts and supplies. This week (May 2-7) is final's week and graduation; so team members are focused on school work. However, Friday, May 6th, the team will be meeting with their advisors at the Discovery Museum's workshop and the electronics build will continue.

Test Launch:

A test flight has been planned for mid-May, however, Dr. Pallis has requested that perhaps this could be moved to the first week in June, when she returns from a medical leave.

HASP Group Meetings: Bashar Alhafni and Dr. Jani Pallis participated on the April conference call meeting.

Final Payload Specification and Integration Plan (PSIP):

Maheshwari Kumar Rakkappan has been assigned to manage all changes (change control) for the final PSIP and assure changes are integrated in all aspects of the final payload.

Travel (Integration and Flight Operations):

We reported in the last status report that Josh Hauge and Dr. Neal Lewis have been awarded Connecticut Space Grant travel grants to participate in HASP flight operations in New Mexico. Phil Carroll and Dr. Jani Pallis have been awarded Connecticut Space Grant travel grants to participate in HASP integration in Texas. Dr. Pallis is seeking funding for two additional team members advisor (Larry Reed and Maheshwari) to travel to Texas for integration and one additional team member (Sam Zhang) to travel to New Mexico for the launch.

Issues:

None.

Milestones Achieved:

PSIP submitted for April 29, 2016

Current Team Leaders/Members, Demographics:

Student Project Manager: Bashar Alhafni (Undergraduate Student – Computer Science)

Leader Flight Computer, Data: Paul Alfaro (Undergraduate Student – Computer Science)

Arduino Gesture Programming: Rishi Warokar (Graduate Student – Computer Science)

Rishi is graduating this semester and although he will continue to assist, we are seeking a new team member. Sam Zhang is also serving as a backup for Rishi.

Structure Lead Arjun Kumar (Graduate Student – Mechanical Engineering)

Arjun is graduating this semester and while he will still be working on the project he will be replaced by Rothen Krishna Thashanath Sajeevan, another ME graduate student.

Thermal Control: Maheshwari Kumar Rakkappan - (Graduate Student – Mechanical Engineering)

Robot Gesture Range of Motion and Fabrication: Phillip Carroll (Undergraduate Student – Industrial Design); Team Member: Josh Hauge

Housing: Josh Hauge

Power and Communications: Xuan (Sam) Zhang (Graduate Student – Computer Science/Electrical Engineering)

Lead Faculty Advisor: Dr. Jani Macari Pallis (Mechanical and Aerospace Engineering)

Faculty Advisor Dr. Neal Lewis (Technology Management - Project Management)

Faculty Advisor Dr. Sarosh Patel (Computer Science and Engineering)

Education Partner: David Mestre (Discovery Museum and Planetarium: Director of Space Sciences, responsible for Challenger Center Mission Control)

Education Partner: Lawrence Reed: (Discovery Museum and Planetarium: Electrical Engineering, Communications)