

# Inter-American University of Puerto Rico

## HASP 2012

### May Monthly Status Report



During this month our team finished the schematics and Printed Circuit Board (PCB) designs. Furthermore we were able populated every board and tested to ensure proper functionality. We manage to complete a pre-FRR document which contains all the specifications about the project until now. Currently we are working with the mechanical structure since all the electrical and computer aspects are finished. In addition we need to recruit new students to work with the project in the summer since the three senior's students working in the project are currently graduating by the end of this month. Therefore it's necessary to find new student to continue their work.

#### 1. Activities of team members

The Electrical team (ELEN) manage to finish the population of the two PCB, the ADS and ACS/ flight computer respectively. These boards were verified to ensure a proper design following the PC/104 standards and to ensure that we do not encounter any electrical issue later on. **Figure 1** shows the PCB for the ADS and ACS/Flight Computer.

The mechanical team (MECN) currently is in charge of redesign the 1U structure since is not performing according with the requirements.

The ADCS and software team finish the code of the attitude determination and Controls system. Currently the system is working perfectly for the pitch orientation its necessary to perform some test to achieve the yaw orientation. **Figure 2** shows the current system configuration.

A Video demonstration of the whole system can be find in the following URL address.

<http://www.youtube.com/watch?v=TvA52LRJUJ4>

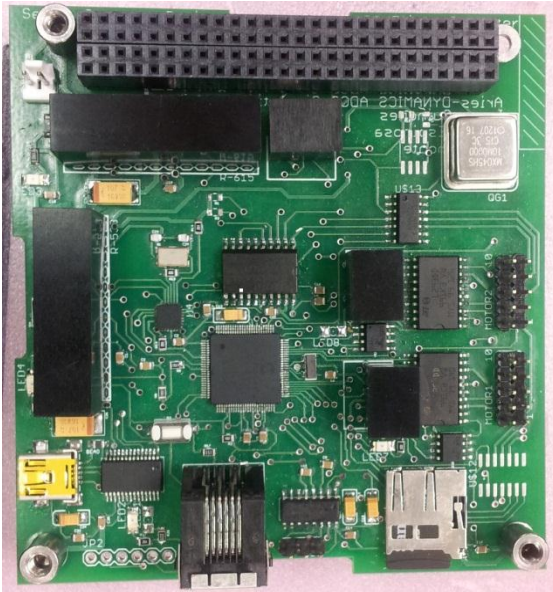


Figure 1: ADS & ACS/Flight Computer PCB's

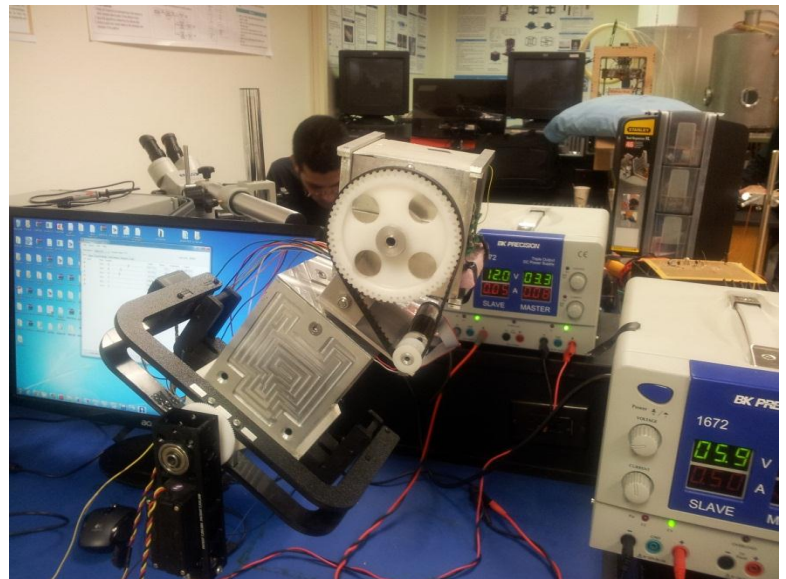
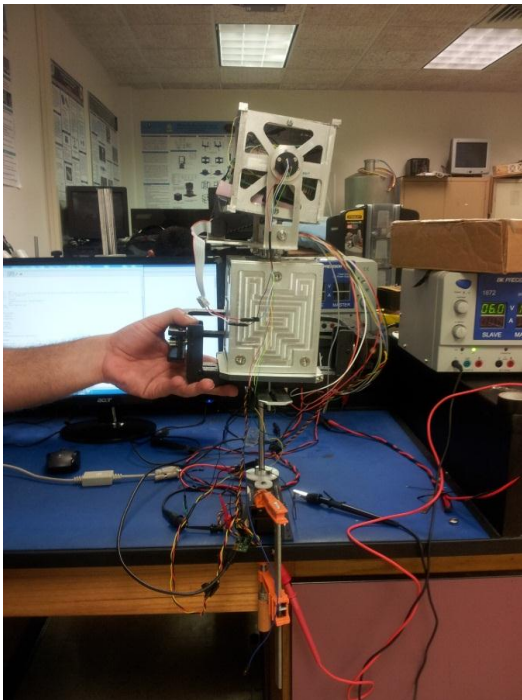


Figure 2: Complete Structure

## 2. Current team members

During May no additional changes has been made to the team structure.