

Monthly Status Report
April 2016
High Altitude Student Platform

Institution: College of the Canyons	Team Manager: Daniel Tikhomirov
Date: April 29, 2016	Advisor: Teresa Ciardi

Progress made this month:

1. Flight computer soldered/assembled
2. Final design changes of components for CNC machining
 - a. Stronger cross support, new extrusion vertical support
3. Fabrication of structure
 - a. top/bottom plates, side panels, extrusions
 - b. external structure assembly
4. Power supply board assembled/soldered/tested
 - a. DC converters tested with variable power supply
5. Temperature sensors tested
6. Heaters tested
7. Preliminary PSIP document

Problems Encountered:

1. Polycarbonate tube purchased does not fit high voltage converter
 - a. alternative enclosure will need to be found/bought

Progress to be made next month:

1. Programming of flight computer
2. Fabrication of motor assembly
3. Assembly of High Voltage enclosure and wiring
4. Full assembly of the payload structure
5. Full assembly of EPC enclosure and mechanism
6. Electrostatic Particle Collector (EPC) testing
 - a. Smoke collection experiment with copper plate and steel mesh

Current Team Members:

<u>Flight Systems</u> <ul style="list-style-type: none">● Jason Monsalve (lead)● Pris Herman● Mina Faust	<u>EPC Systems</u> <ul style="list-style-type: none">● Nicholas Kasdjono (lead)● Savannah Rousselo● David Al-Nemri
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<u>Thermal Control</u> <ul style="list-style-type: none">• Ryan J. Arroyo (lead)• Wyatt Kurumiya	<u>Power Management</u> <ul style="list-style-type: none">• Mindy Saylor (lead)• Jesse Bermudez
<u>Mechanical/Structural</u> <ul style="list-style-type: none">• Patrick Gagnon (lead)• Scott Sebesta	<u>Faculty Advisers</u> <ul style="list-style-type: none">• Teresa Ciardi• Christine Hirst• Kathy Flynn• Deborah Levine