MISSION SUMMARY

Objective Tree

STATUS

- Currently testing our CanSat to prepare for launch
- Finished assembling electrical system
- Testing auto-gyro propeller to control science payload descent
- Ready to test descent control systems
- Ground station receives and displays sensor data in real-time

TEAM

Email: cansatuci@gmail.com Website: https://sites.google.com/a/uci.edu/cansat/

.spring 2019 design review

UCI CANSAT

Auto-gyro propellers slow payload descent

Electrical module with 3D printed housing. Sensors and PCB inside.

Electrical system top and bottom with sensors

Servos lock payload into container and rotate to release

Propeller unfolding assembly with springs to open angled propellers

Servo payload release test

3D printed end caps

Lightweight LDPE container

Payload release in locked position

Budget

Positive

Negative

Material

Project Funding and Engineering Expenses

SPRING MILESTONES

- Finish testing auto-gyro descent control system
- Full assembly of CanSat for drop test and environmental tests
- Schedule launch during summer in collaboration with UCI Rocket Project
- Ensure graduating teammates train new students and document their knowledge

BUDGET

- Professor Rangei: Faculty Advisor
- Emilio Sacco: McNair Sr. Mech. Engineer
- Amy Moline: SkyHawks MD & APL Operations Lead
- Alexandra Monovyan: Pi Alpha Xi Software Lead
- Emily Maharg: McNair Sr. MD, Electrical
- Owen David Bresne: McNair AE, Hardware Team
- Ryan Kington: Pi Alpha Xi Software Team
- Alexander Hebb: McNair Sr. MD, Electrical
- Jonathan Wilson: McNair Jr. CRD, Electrical
- Joseph Fish: McNair Sr. MD, Hardware Team
- Andrew Zhao: McNair Sr. MD, Electrical

3D printed housing. Sensors and PCB inside.

Carbon fiber structure