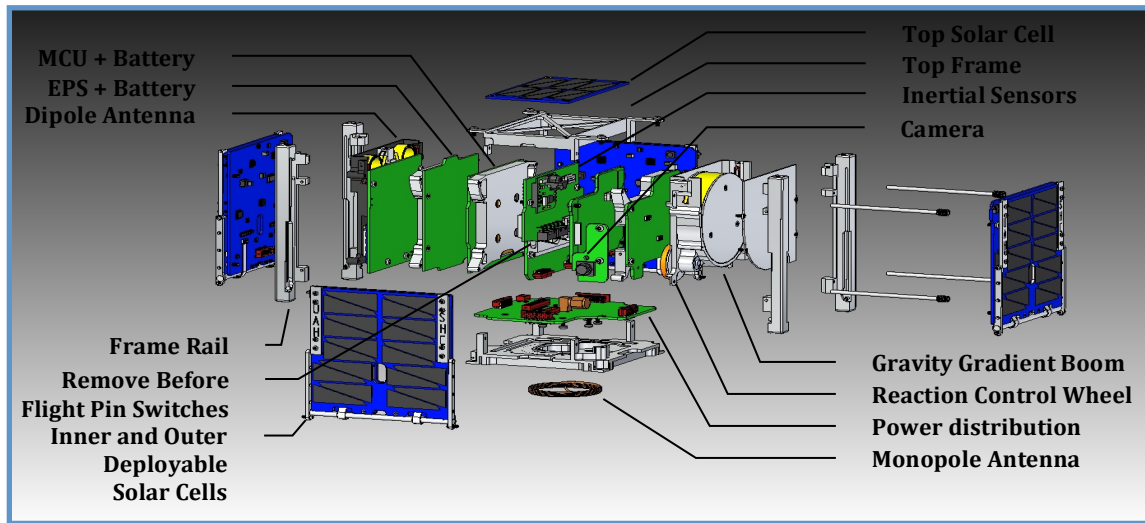


ChargerSat-1 CubeSat Description

University of Alabama in Huntsville – 1U



Brief Overview: ChargerSat-1 is the first CubeSat for UAHuntsville students. ChargerSat-1 demonstrates three primary objectives in addition to the core operations of the satellite and ground station. Demonstration of the technologies will raise the involved technologies to TRL 9.

The primary mission is to:

- Improve communications for picosatellite operations
- Demonstrate passive nadir axis stabilization for picosatellite attitude control
- Improve solar power collection for picosatellite operations

The secondary mission is to capture and downlink images

The satellite utilizes a communication system which is necessary to uplink commands and downlink data containing spacecraft health as well as payload test results.