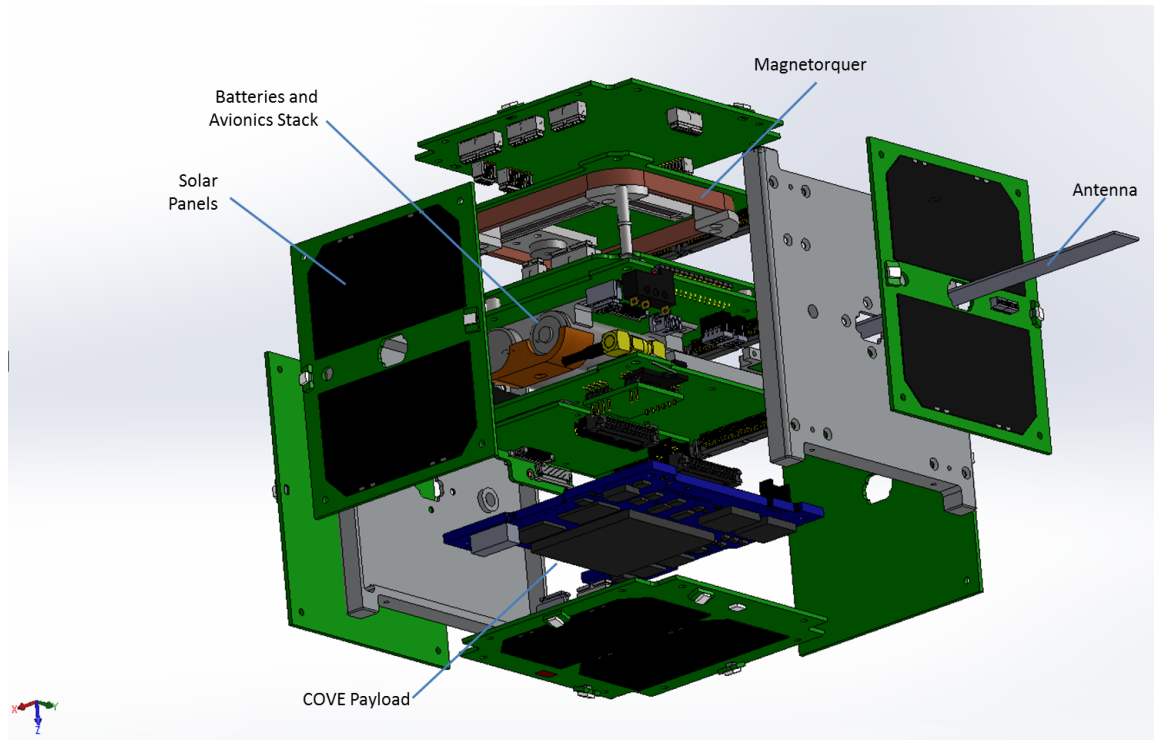


MCubed-II Mission Description

University of Michigan – 1U



MCubed-II Expanded View

MCubed II is a 1U Cubesat designed and built by the Michigan Exploration Laboratory at the University of Michigan as a joint effort between U-M, JPL and ESTO the Cubesat On-Board Validation Experiment (COVE). COVE is designed to demonstrate an on-board processing system to optimize data processing and instrument design of a Multi-Angle SpectroPolarimetric Imager (MSPI) for the ACE Decadal Survey Mission which will achieve a two-orders of magnitude reduction in data rate. MCubed II is a rebuild of MCubed I with an upgraded structure, avionics, and camera system.

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