

Research Project Description

The research project is a 1U CubeSat, named GT-2, that will primarily be used as an educational proof of concept and satellite bus demonstrator. In particular, we want to demonstrate and test improved attitude determination through sun sensors, a magnetometer, a GPS system, and an IMU, and attitude control through magnetorquer detumble and control.

Communication Facilities Description

The communication facilities being requested are necessary as we currently do not have a ground station with the appropriate license for this project. We need a way to contact and communicate with our satellite, thus this facility is required.

Ground Station Clarification

The questions regarding the horizontal and vertical plane orientations for our ground station's directional antenna have been left blank as this antenna will have tracking capabilities and will not be fixed in one orientation.