Saint Thomas More Cathedral School
Attention: Joseph Pellegrino / STMSat-1 Mission Manager
105 N Thomas St, Arlington, VA 22203
Phone: 703 344 4698
E-mail: joseph.f.pellegrino@nasa.gov

STMSat-1 is a 1U cubesat which was designed and built by the students of Saint Thomas More Cathedral School in Arlington VA. The purpose of the spacecraft is to inspire young children to pursue careers in science and engineering. The spacecraft is comprised of the following subsystems:

1. Structure
2. Radio
3. Solar Arrays (5, body mounted)
4. Power System
5. On-board Computer
6. Deployable Antenna
7. Camera
8. School Payload (cross blessed by the pope)

The spacecraft will be launched into LEO (400 km) from the International Space Station (ISS) in early December 2015. The antenna will deploy 45 minutes after deployment from the ISS. The spacecraft will take a photo of Earth every 30 seconds and will transmit it via the amateur radio band (slow scan television). If required, the spacecraft “shut down” command would be sent via the NASA Near Earth Network.

Grade school students at Saint Thomas Cathedral School and around the world will receive the images which will be posted on the mission website. The images are low resolution (24kb). The expected mission life is 8 to 12 months.