



## ROCKET-POWERED LANDER TERRAIN MAPPING



**SCHOOL:** H.H. POOLE MIDDLE SCHOOL

**LOCATION:** STAFFORD, VA

**FLIGHT PROVIDER:** ASTROBOTIC

**GRADES:** MIDDLE SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

The experiment uses LiDAR to pinpoint important locations and find a safe place to land the rocket-powered lander. It also utilizes cameras and GPS to help find its location and map what the environment may look like. If we use LiDAR to map the terrain, then we can find a safe place to land. Our team members are all fascinated in how rockets work, and how we can use technology to help with space exploration in the future.