



## THADEN'S MACGYVER LUNAR BIKE



**SCHOOL:** THADEN SCHOOL

**LOCATION:** BENTONVILLE, AR

**FLIGHT PROVIDER:** ASTROBOTIC

**GRADES:** MIDDLE SCHOOL

### STUDENT EXPERIMENT DESCRIPTION

We will use a LiDAR and dash cam to identify objects on the lunar surface proving ground for the purposes of identifying trash on the moon. Once identified, the trash can be cleaned up or reused to keep the space environment clean. If our camera and LiDAR sensors detect anomalies on the lunar surface, then that data can be used to locate debris to be recycled. By collecting the debris on the moon, we could repurpose the debris to “macgyver,” a functional Thaden lunar bike.