



WVA SWIVELING LIDAR SYSTEM



SCHOOL: WILLAMETTE VALLEY ACADEMY

LOCATION: BEAVERTON, OR

FLIGHT PROVIDER: ASTROBOTIC

GRADES: MIDDLE SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our goal during flight is to find several ideal landing areas and give them comparative ratings using LiDAR and GPS, and overlay these landing spaces with photos taken by the camera. We expect that adding a second LiDAR will allow us to map out a 2-dimensional area as opposed to a single line of data with one LiDAR. Our inspiration for this experiment was from previous NASA rovers, like Curiosity and Perseverance, which used LiDAR to map the terrain during their landing procedures.