



UTILIZING LIDAR SENSOR TECHNOLOGY TO ASSIST IN SAFER AND MORE ACCURATE LUNAR LANDINGS



- SCHOOL: DUPONT MANUAL HIGH SCHOOL
- LOCATION: LOUISVILLE, KY
- FLIGHT PROVIDER: ASTROBOTIC
- GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

Our experiment aims to evaluate LIDAR systems by testing how air quality affects LiDAR sensors. We're gathering data on how LIDAR interprets the lunar-simulated terrain. Using LIDAR will significantly improve terrain mapping in simulated lunar environments, but high particulate matter will decrease the LiDAR's accuracy. The NASA TechRise opportunity to gather data from a real rocket-powered lander has continued to grow our team's interests in solving problems within the aerospace industry.