







NOVEL INFRARED DETECTOR FOR FUEL LEVEL APPROXIMATION RESEARCH TECHNOLOGY



-  **SCHOOL:** CHAMINADE HIGH SCHOOL
-  **LOCATION:** MINEOLA, NY
-  **FLIGHT PROVIDER:** ASTROBOTIC
-  **GRADES:** HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

This experiment will observe and record the temperature and optics of the flame coming out of the rocket-powered lander’s exhaust. This can be used to determine how much fuel the rocket is burning. If we can observe the changes in temperature of the flame, then we will be able to derive how much fuel is being consumed, also telling us the amount remaining. Our inspiration was to make a simplistic and cost effective system that can be used on all rocket ships and prevent fatal and costly errors.