TEAM USLI

The University Student Launch Initiative (USLI) is a NASA challenge to train the next generation of engineers. The challenge this year is to launch a rocket to an apogee of between 4000 and 6000 feet with a payload capable of surveying its surroundings upon landing based on communications received.

AERO/REC/PROP

The aero/rec/prop team is responsible for the following items:

- Aerodynamic and flight simulations
- Recovery avionics and hardware
- Motor selection and simulation

AV Bay with attached electronics

Black Powder election charge testing

2022-2023 rocket pre-launch 2022-2023 rocket post-launch

PAYLOAD

The payload sub team is responsible for designing, building, and programming a payload capable of the following items:

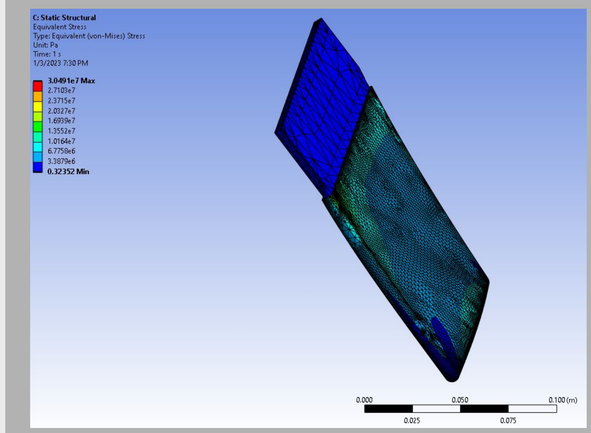
- Host a camera capable of turning 360 degrees
- Take pictures based on radio commands sent from NASA
- Apply filters and alterations to images

Successful test of payload image capture and filter application

Successful test of payload orientation

STRUCTURES

The structures sub team is responsible for the design and manufacture of structural components.



Fin Structural Analysis

Fiberglass ply cutting

Nosecone tip manufacturing

Oregon State University