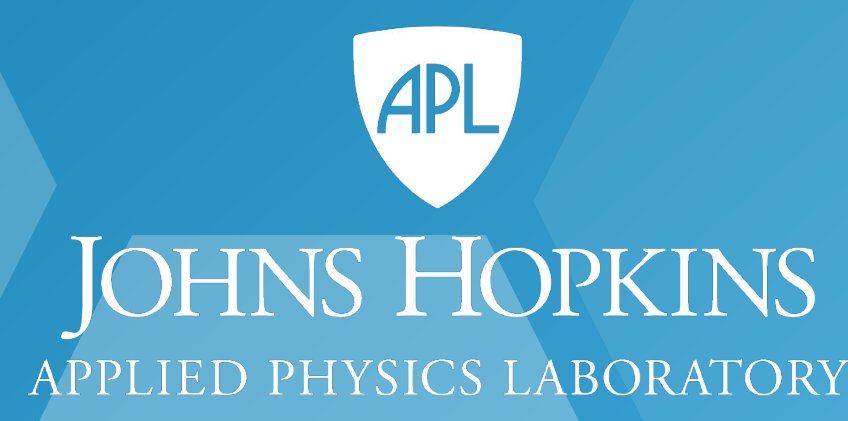
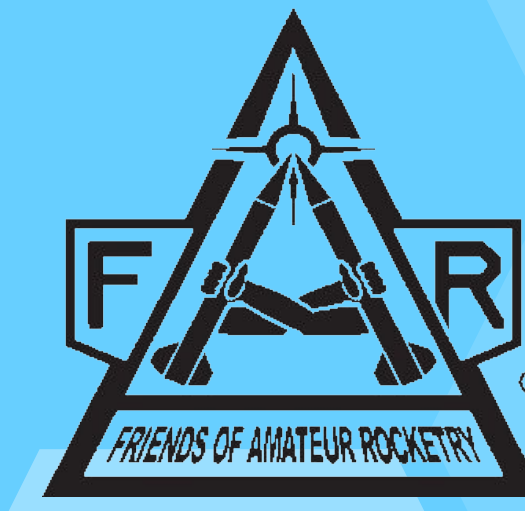
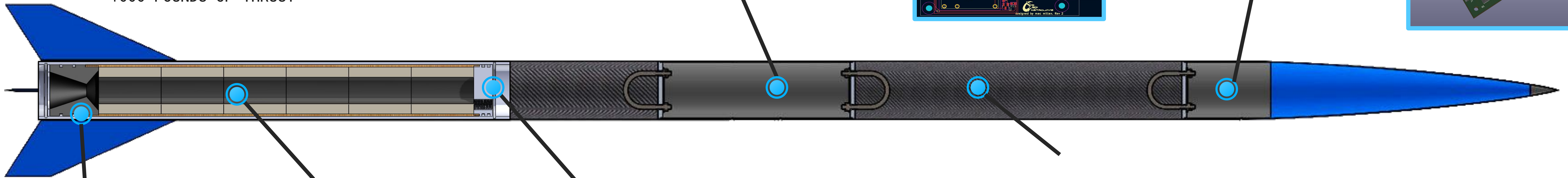


ASTROJAYS

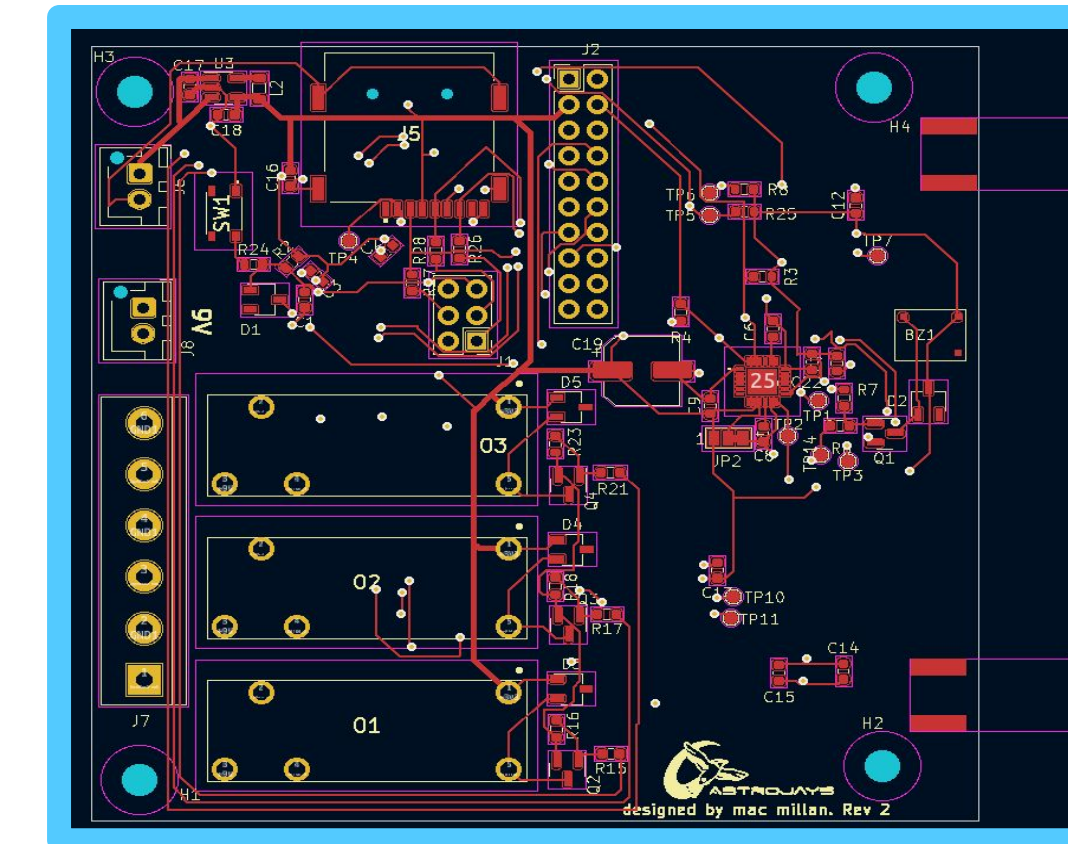


2026 IREC SINGLE STAGE ROCKET DESIGN

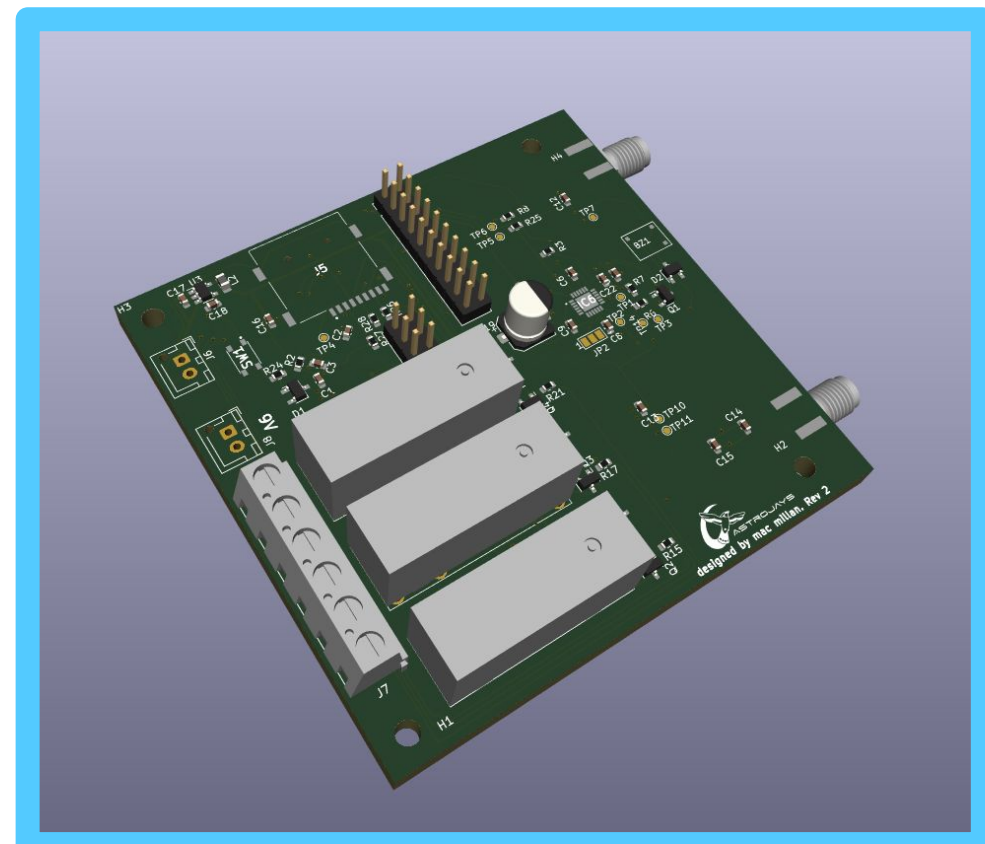
- 14 FEET TALL
- 100LBS
- 30,000 FEET ALTITUDE
- MACH 2.0
- 1000 POUNDS OF THRUST



Relays to control rocket stage separation and parachute deployment



Scientific Payload PCB designed in KiCAD



Reusable Graphite Nozzle

Ammonium Perchlorate Rocket Propellant

Custom-Manufactured pressure vessels, bulkheads, and O-rings

SOLID-FUELED ROCKET ENGINES

Engine Static-Testing!!

Airframe made of Carbon Fiber Reinforced Polymer (CFRP)

CARBON FIBER AEROSTRUCTURES



Stress testing Forged Carbon Fiber parts for Fins, Bulkheads, and Payload bay

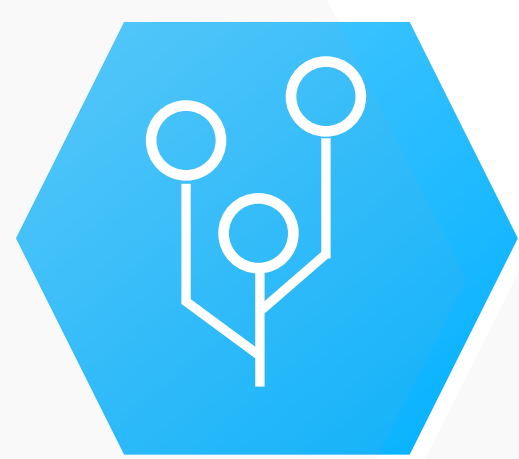


OUR SUBTEAMS



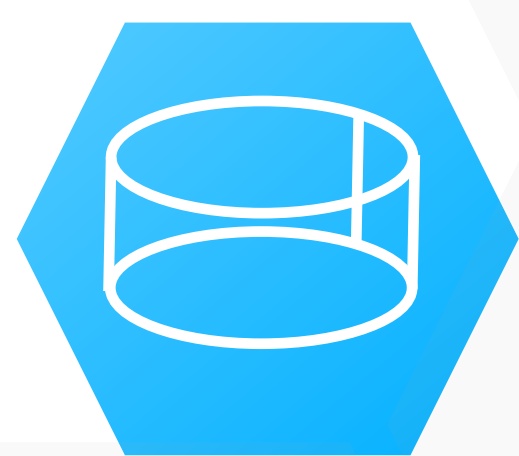
PROPULSION:

Develop and test powerful Solid and Liquid Rocket Engines, conduct test-fires and launches!



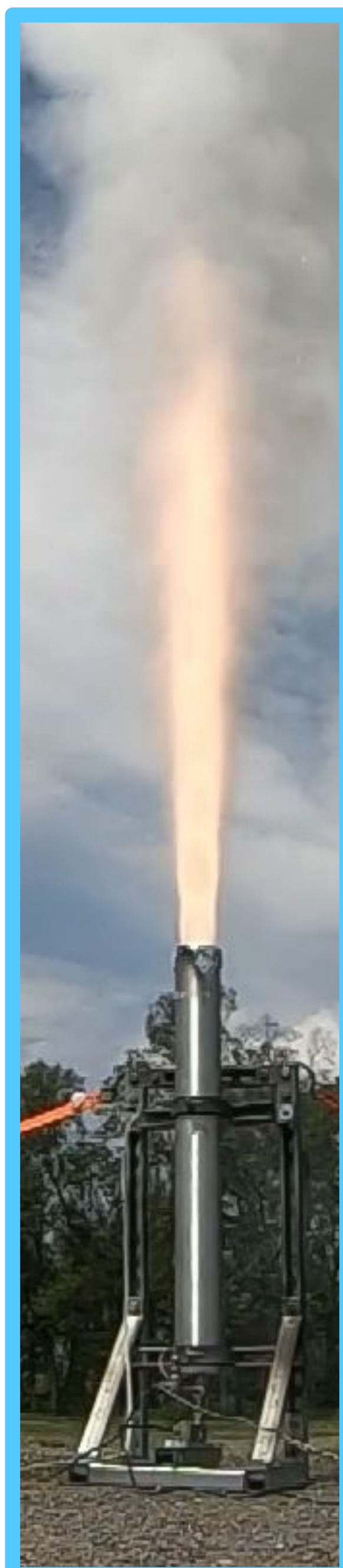
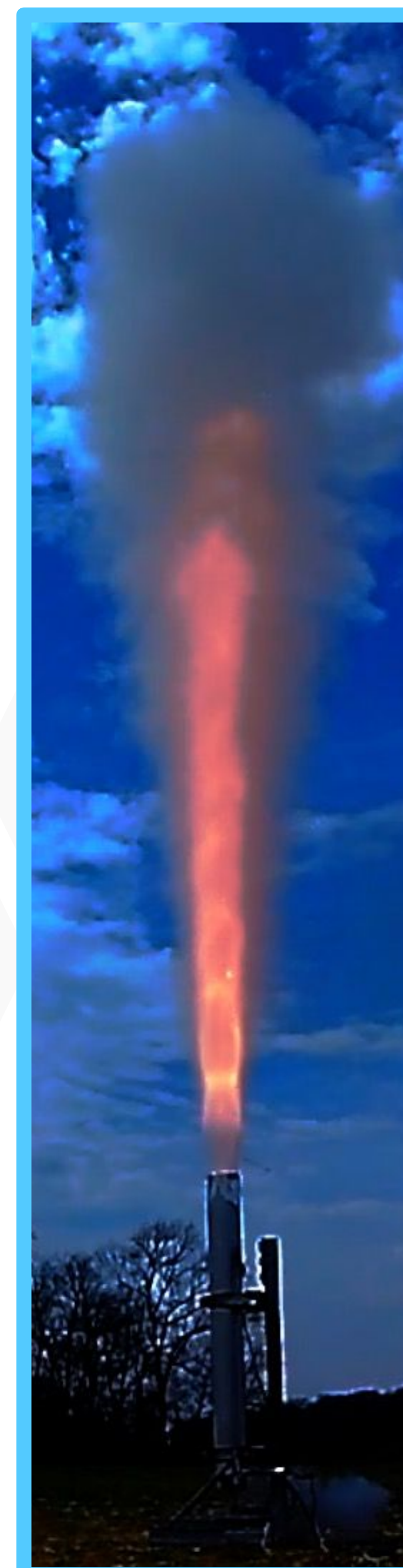
AVIONICS:

Work on Flight computers, data acquisition for engine tests, Recovery systems engineering



STRUCTURES:

Development of advanced composite aerostructures with high mass-efficiency and strength.



PLANS FOR THE YEAR



Certify new members with subscale solid-fueled rockets

Design, manufacture, test, and launch a new competition-scale rocket to compete at the IREC '26 competition in Texas!



Develop our experimental engines that will take our future rockets even higher



Build a Single Stage rocket to test our massive new Solid Motors!

