

AIAA Region II Student Conference

Regional Design Team Category

School: Florida Institute of Technology

Presenters: Sean Dungan, Kevin Fernandez, Mamoon Syed

Topic: Affordable Earth Return On-Demand (AERO) Vehicle Design

Letter of Intent

This presentation will summarize the key design and fabrication work done for our senior design project, Affordable Earth Return On-Demand (AERO). This cost effective, readily deployable, small reentry vehicle is a self-contained system that de-orbits, reenters, and parachutes its 1 kilogram of high-priority payload safely to Earth's surface. See Figure 1.

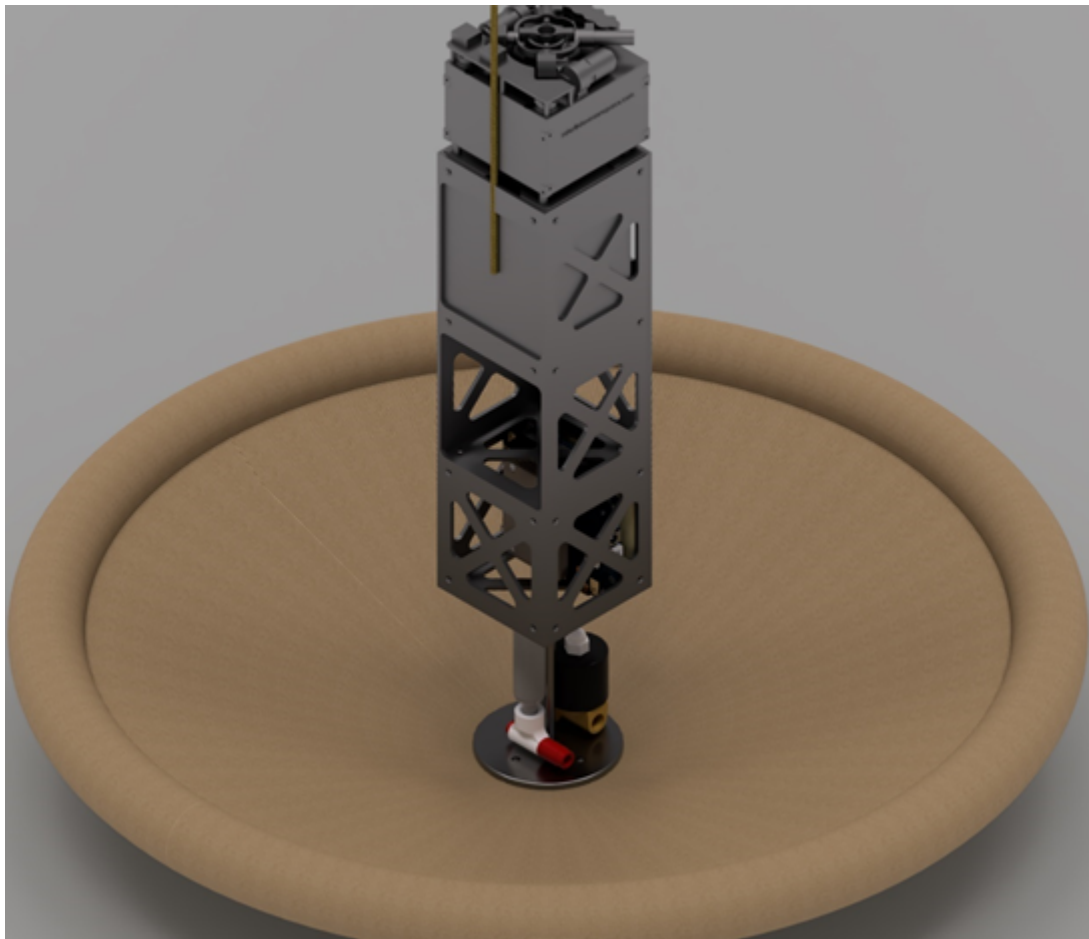


Figure 1: CAD Rendering of Full AERO Vehicle with Heatshield Deployed