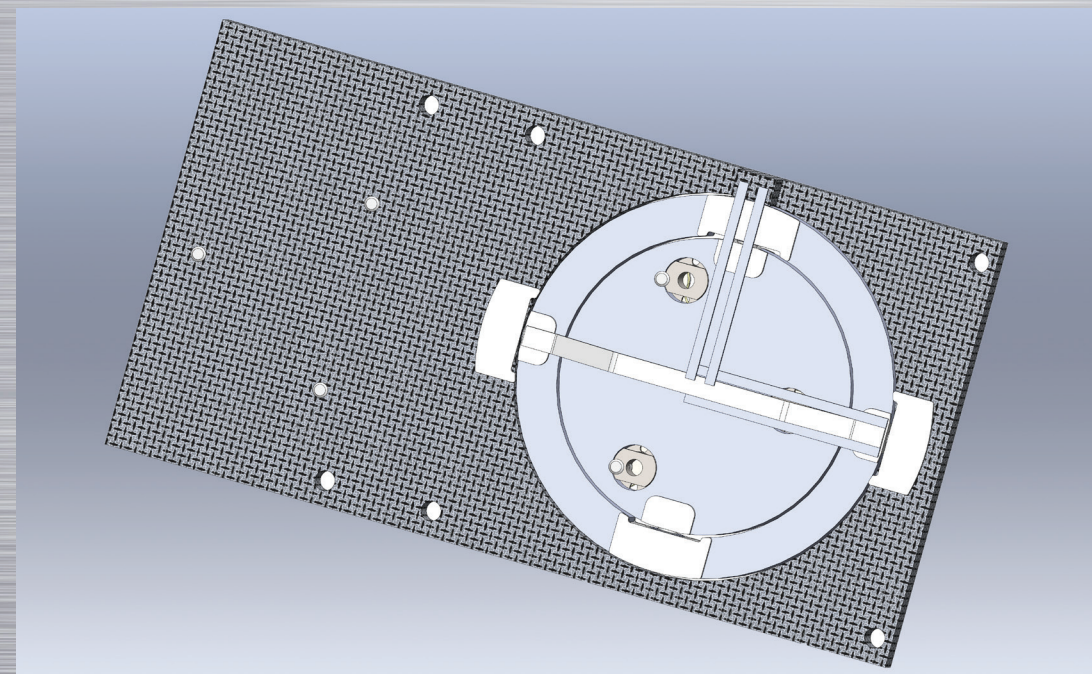




Introducing **PEASSS**

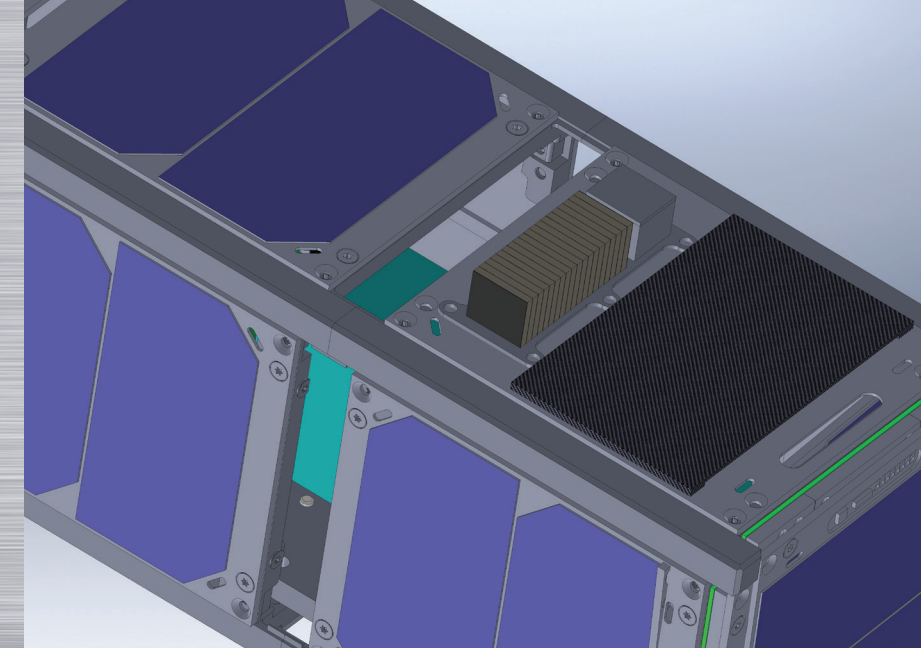
Piezoelectric Assisted Smart Satellite Structure

Development and demonstration of piezo actuated “smart structure” for pointing of optical instruments/sensors and power harvesting, fiber bragg gratings for strain measurement, and next generation of small satellite electronics.



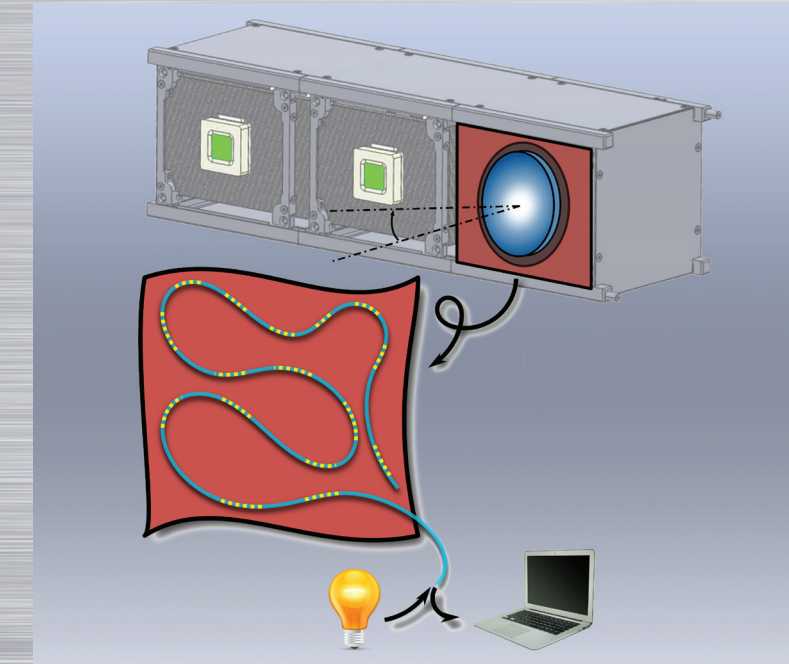
Piezo Actuated Structure

Piezoelectric actuators embedded in space structures will increase pointing accuracy and thermal stability of optic benches, while saving mass and power.



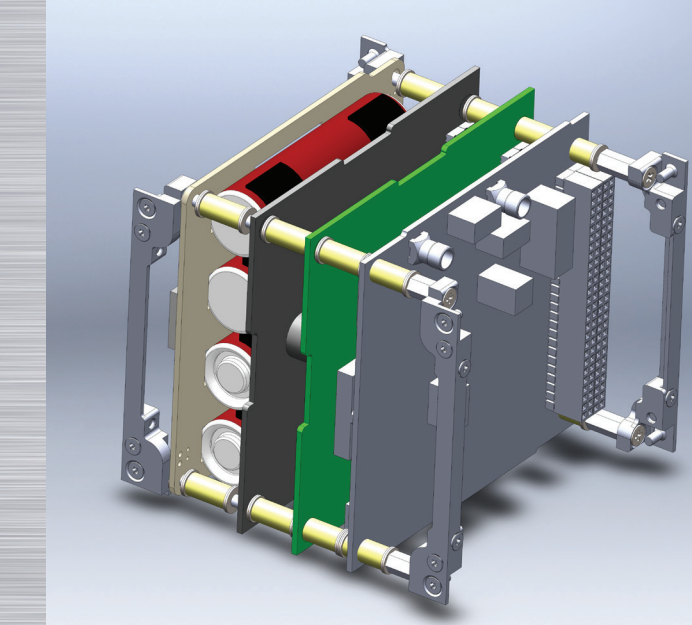
Power Generation

Piezo power generation incorporated into structures utilizing the pyroelectric effect.



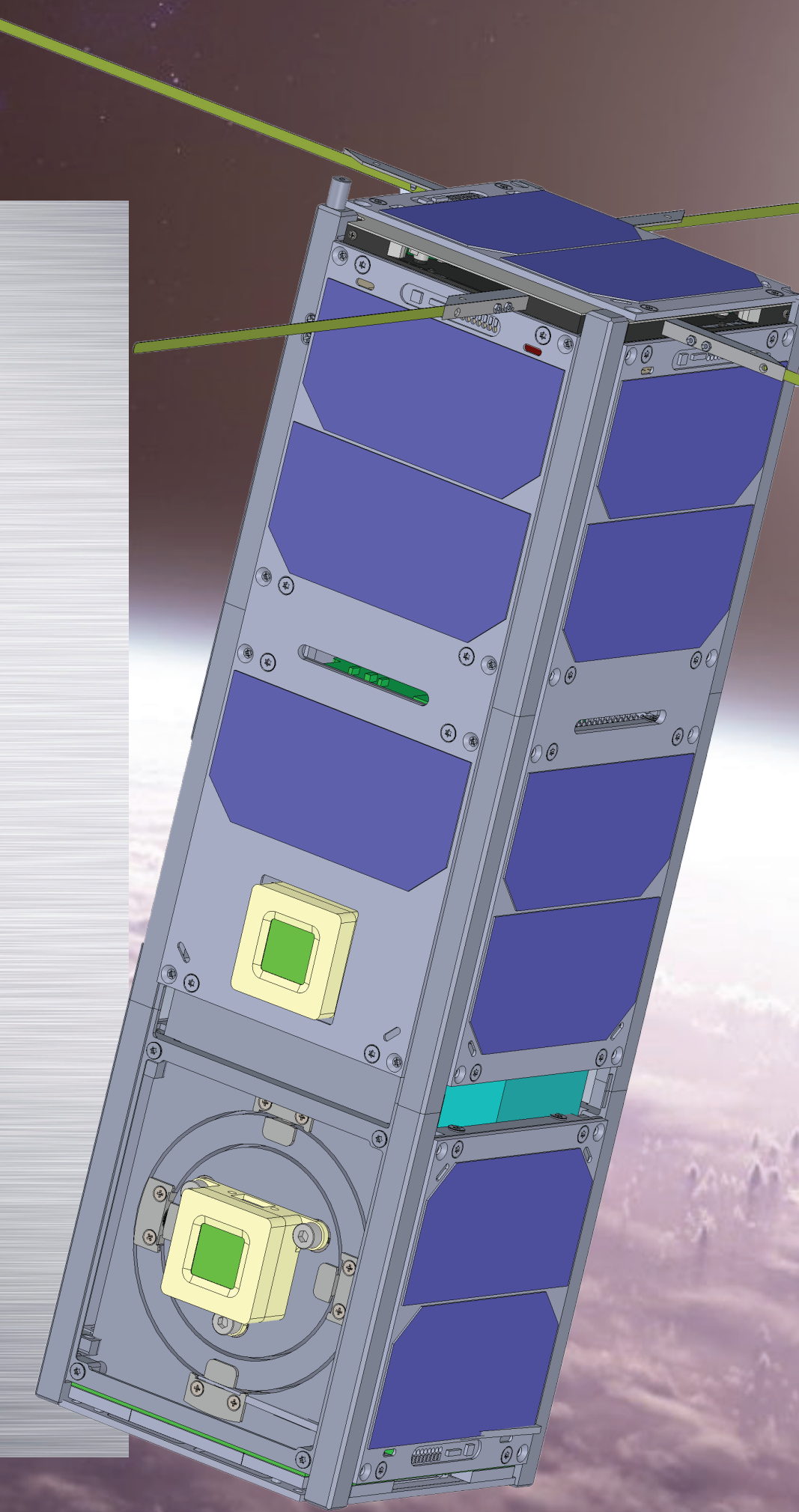
Fiber Optic Sensing

Embedded fiber optic sensors, allowing structural health and temperature monitoring with a single wire.



Innovative NanoSatellite Electronics

In space qualification of next generation nanosatellite electronics: 1. Computer. 2. Power supply. 3. Data handling.



The objective of the **PEASSS** project is to develop, manufacture, test and qualify “smart structures” which combine composite panels, piezoelectric materials, and next generation sensors, for improved pointing accuracy and power generation in space