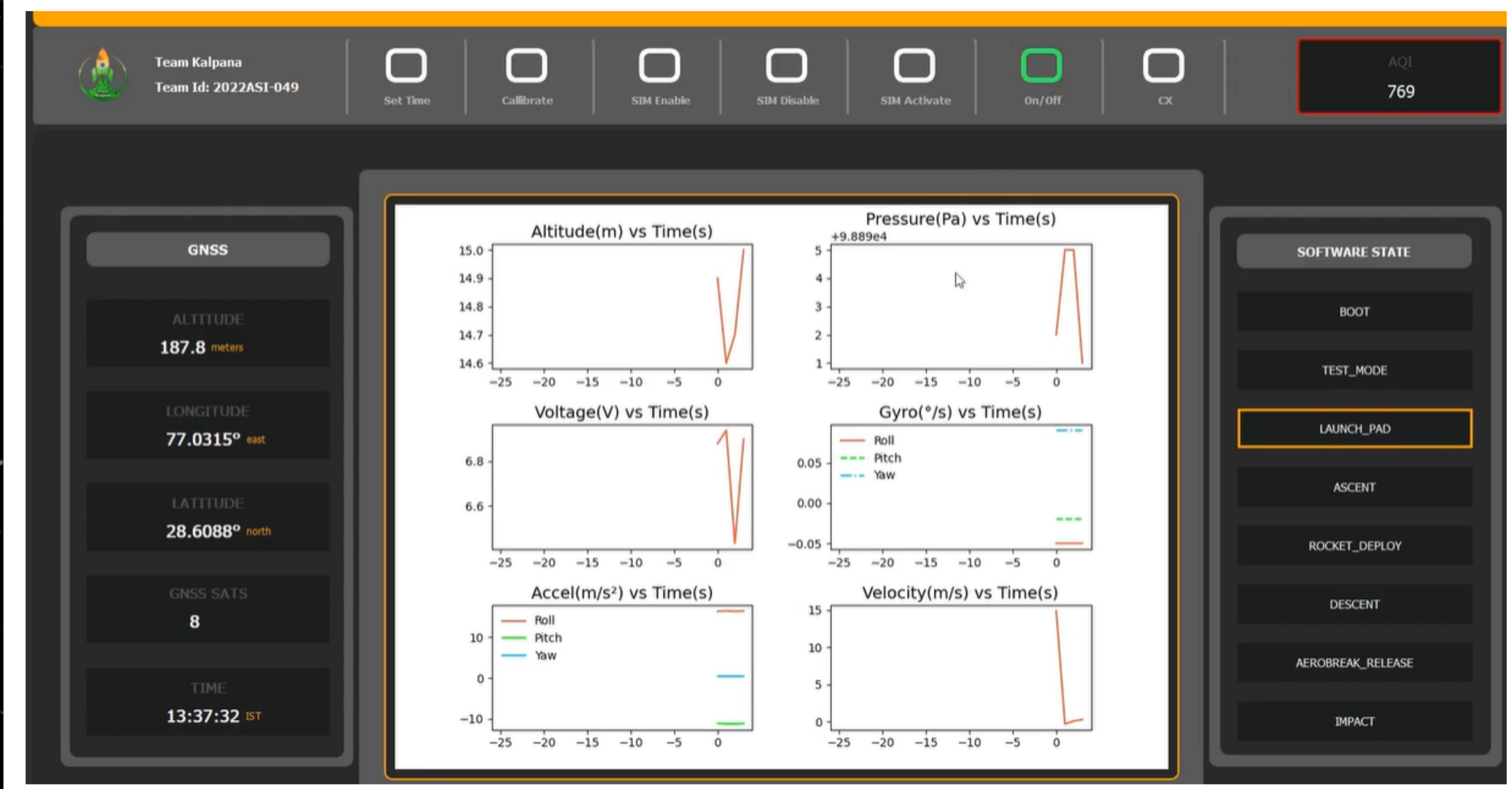


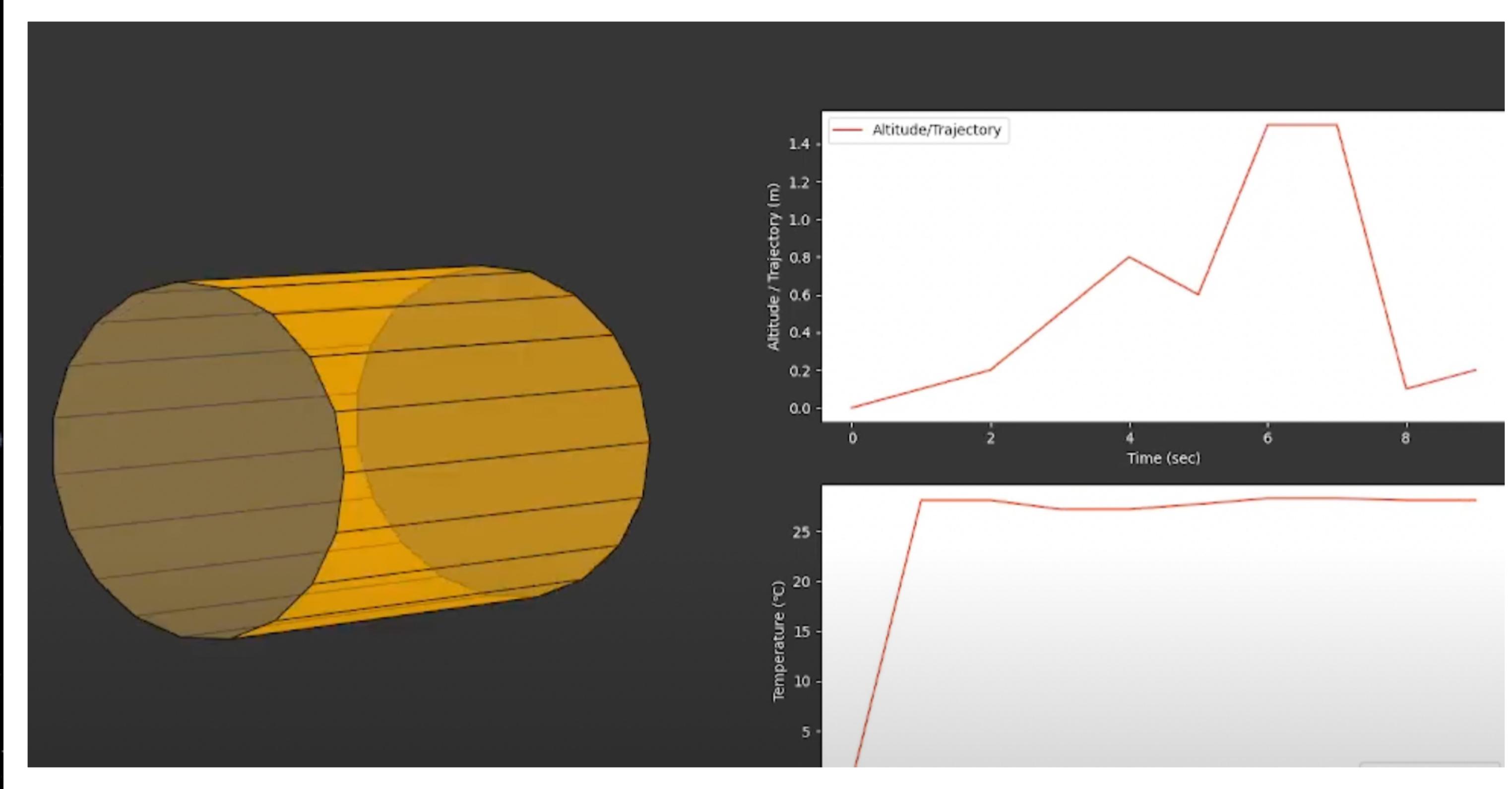


IN-SPACE



INTERACTIVE GUI SCREEN

It plots sensor data in real time, displays GNSS details, software states, AQI, data packet fields, and live location.



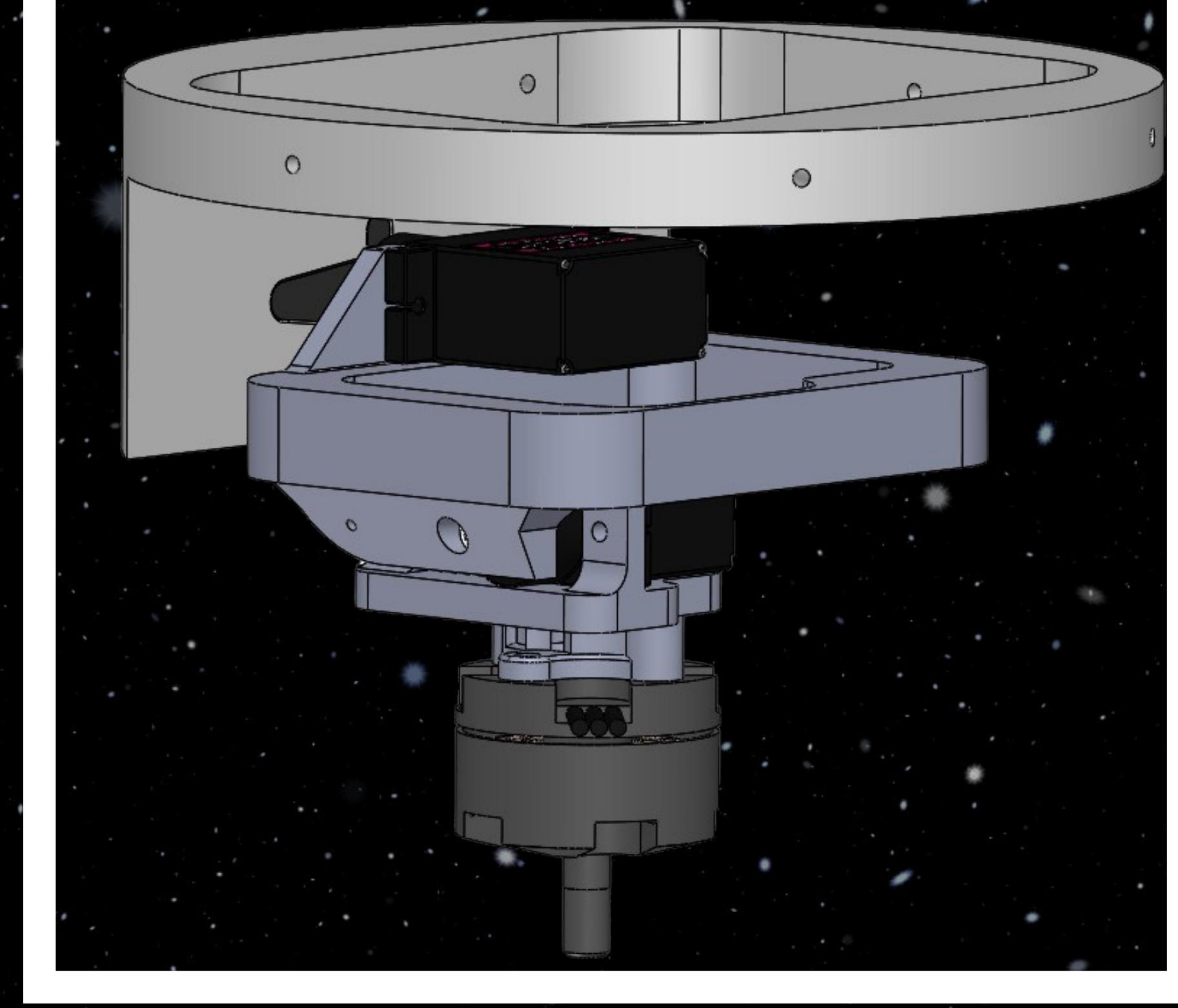
GUI SCREEN FOR ATTITUDE

It renders a 3D animation of the CanSat's orientation, and plots the overall trajectory.



ONBOARD CHARGING

The CanSat has an onboard charging facility, mitigating the need to frequently install and remove batteries for charging.



MECHANICAL GYRO

Innovative gyro system that stabilises along all 3 axes. Gimbals are controlled by a separate microprocessor, and utilises Kalman filter and PID control to offer critical gimbol control.



AEROBRAKING SYSTEMS

The Aerobraking system consists of two Parachutes each designed to achieve a terminal velocity of nearly 20m/s +- 5m/s from 800-900m and 1-3m/s 500m onwards.



POSITIONING SENSOR

Made In India: Quectel L89 GNSS module that supports multiple constellations including IRNSS(NavIC)

