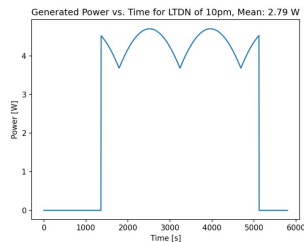
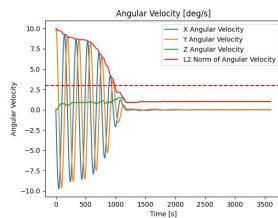
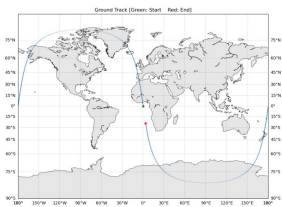


GNC Quad Chart

October 09 2024



External Tools Needed:

Blockers:

- ESC RPM Sensor still in the mail → can't find most efficient angular speed for RW without angular speed measurements.

Progress:

Simulation:

- Core C++ sim ready and going through code review & unit testing
- Detumbling simulation
- Incident Solar power estimation sim ready and in review
 - Takes solar panel facet info and sweeps over LTND

Reaction Wheel:

- Spun up 2.5" motor with same ESC as UC Davis paper proposed

Plan for the Upcoming Week:

- ## 1. Sun-pointing, Earth-pointing Sim scenarios

Interfaces:

1. **Camera Qty & Placement** : 4 cameras (including 1 star tracker)
 - a. Estimated to be along $\pm Z$ and $\pm Y$
2. **RW power constraints**
 - a. Avionics—what can we afford?

Kanban

