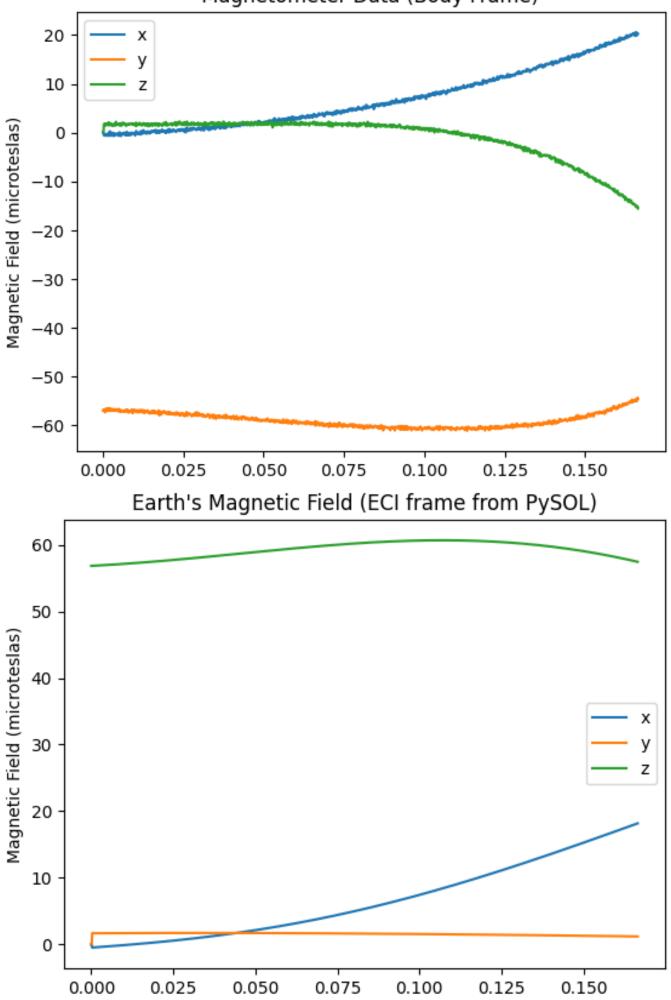
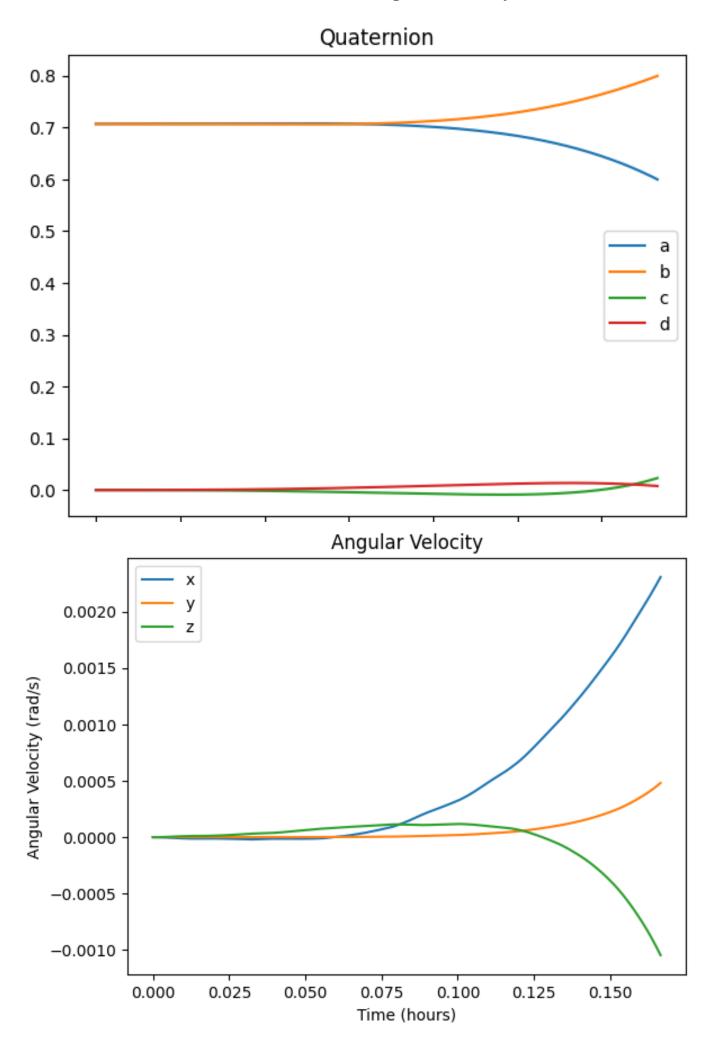
Detumbling Simulation Report





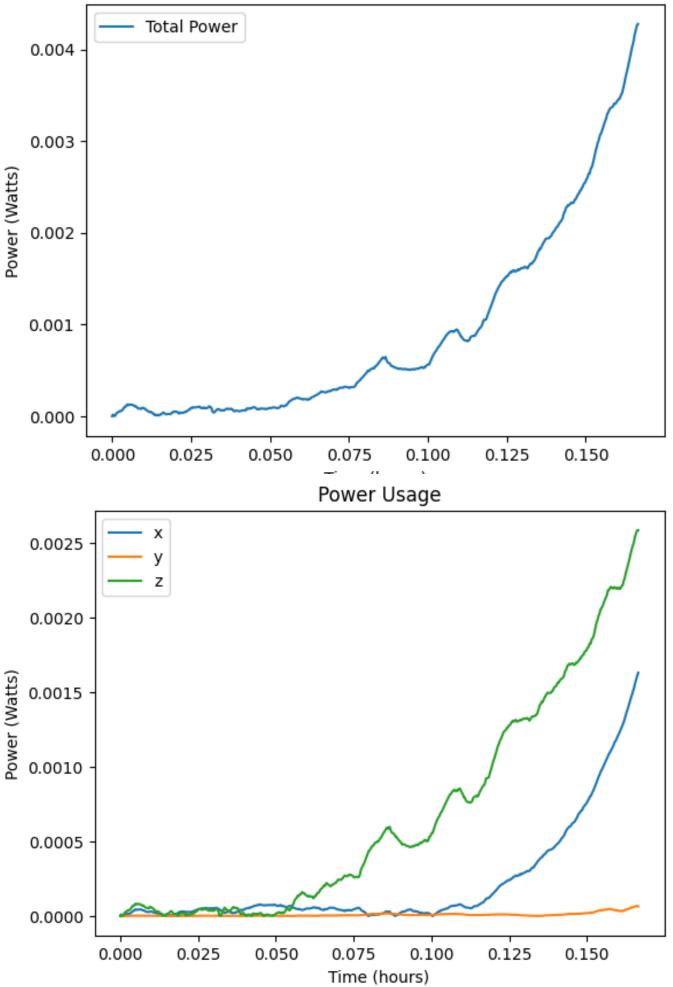
Time (hours)

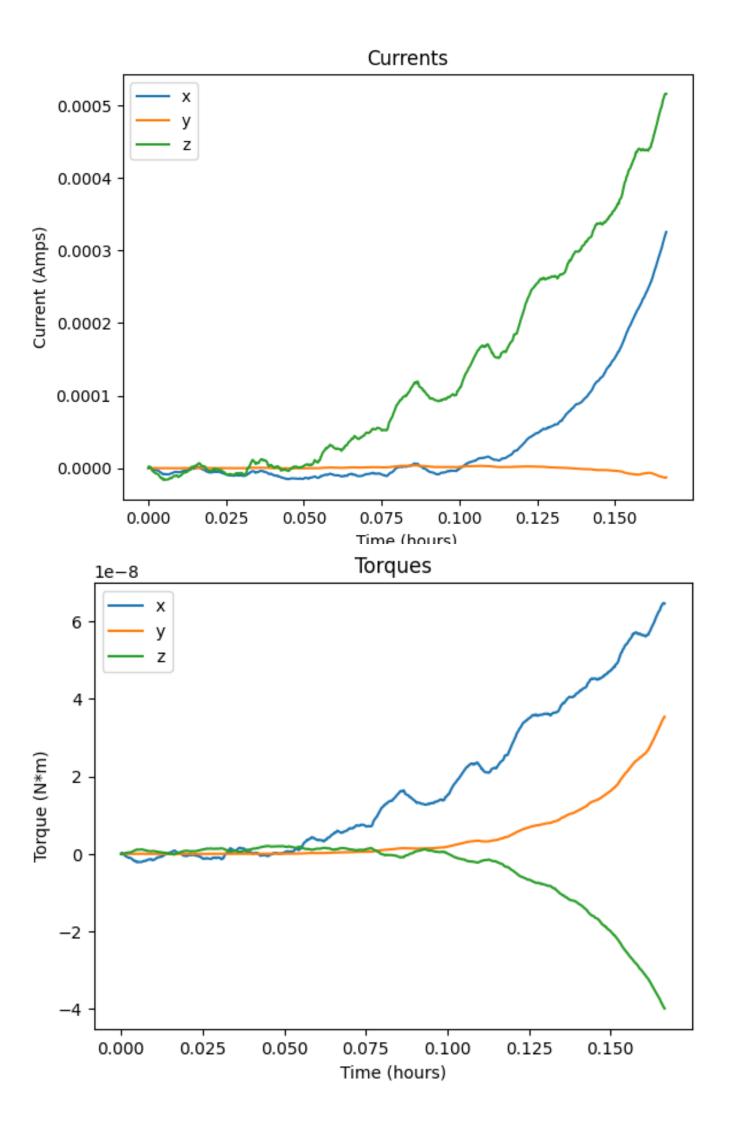
Orientation and Angular Velocity

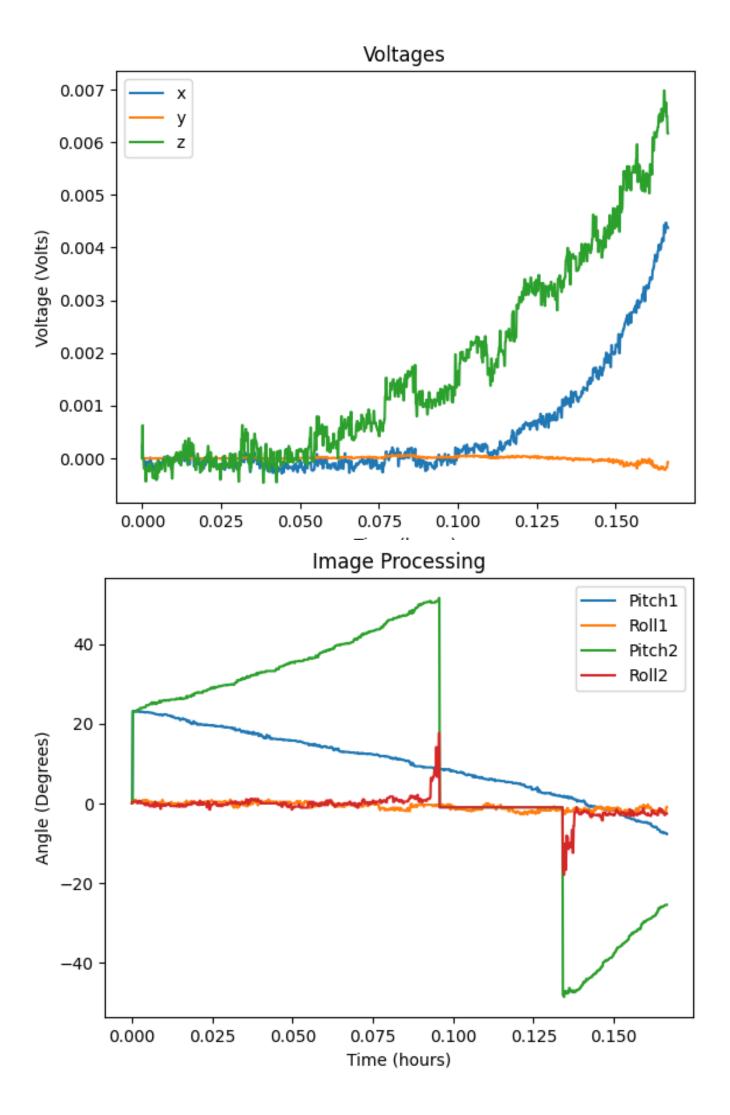


Magnetorquer Information

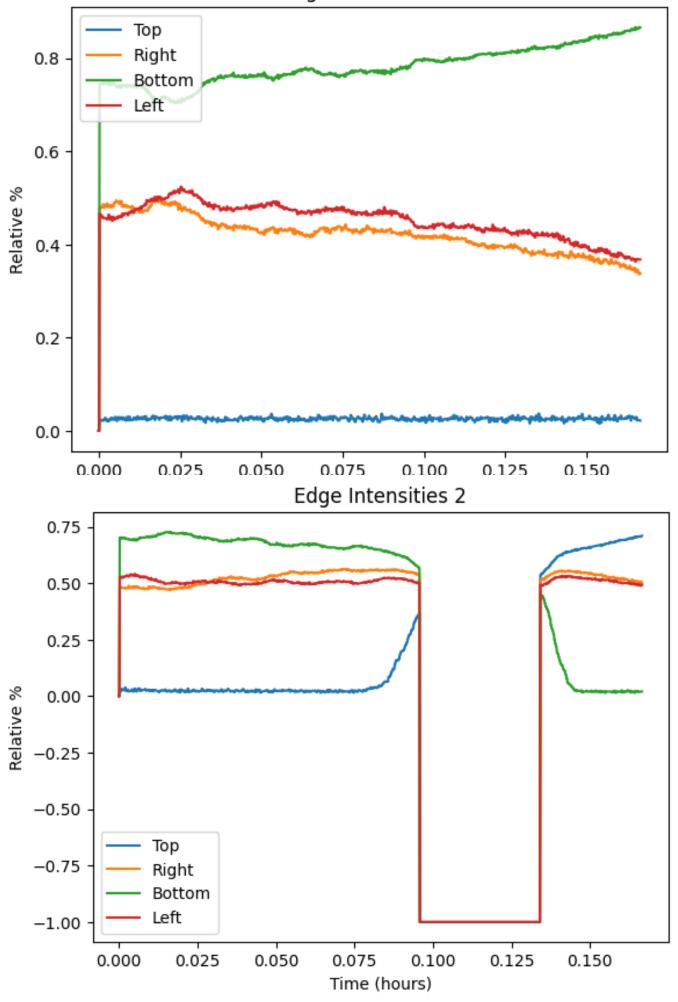








Edge Intensities 1



General Info

Starting speed: [0 0 0] degrees/s.

Total simulation time: 0.1666666666666666 hours

Orbits completed during simulation: 0.1069 orbits.

Hours to detumble: 0.0003 hours.

Orbits to detumble: 0.0002 orbits.

Power consumed to detumble (Total Energy): 0 Jules

Orbital elments: [90, 6828, 9.22e-05, 90, 90, 0]

These define our simulated orbit (see sol_sim.py in PySOL for more info)

B-dot proportional gain: k = 1e-05

Bang-Bang proportional gain: kp = 200.0 Bang-Bang derivative gain: kd = 170.0

Satellite info:

Ferro Magnetorquer:

Number of turns = 1845

Area = 3.216990877275948e-05 m^2

k = 1e-05

Magnitizing factor = 38.3370626305719

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