Term Project Modeling

A screenshot of a computer

Description automatically generated

Figure 1: Turret center of mass location

A screenshot of a computer

Description automatically generated

Figure 2: Launcher and platter mass properties. The rotation axis is Y for the CAD model, so the Moment of Inertia of interest is Iyy.

A computer screen shot of a machine

Description automatically generated

Figure 3: Pinion and Hub mass properties. Note that this does not include the mass/inertia of the motor’s rotor. The mass is centered on the axis of rotation. Once again, the Inertia of interest is Iyy.