Two-Wheeled Cart Project

Cadyn Maddocks and Joshua Mularczyk  
Milestone 3: Physical Characteristics

3/28/23

Total wheel mass: 98.2 g

Total Body mass: 717.7 g

Center of Mass: 1.7 cm up from x axis : L in model

Moment of Inertia of wheels: 2.79639E-5

Moment of Inertia of body: 1.7630E-4

wheel diameter: 6.75 cm

wheel radius: 3.375 cm

width of wheel: 2.5 cm

Motor Constant: 3.1113

Resistance: 4.6 ohms

Gravity: 9.81 m/s