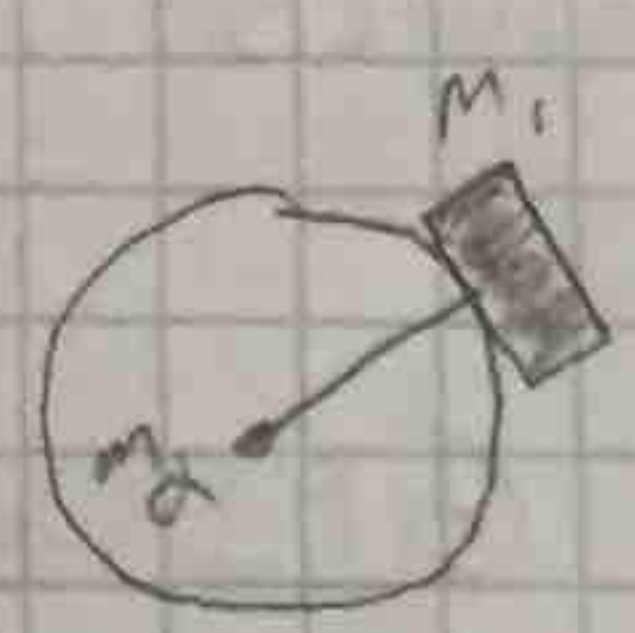


- figure out control system (type)
- figure out motion



dynamics of motion

Inertia of Bucket Ball

$m_1 \gg m_2$

$I_2 = \frac{2}{5} m r^2$

$m = 0.625 \text{ kg}$

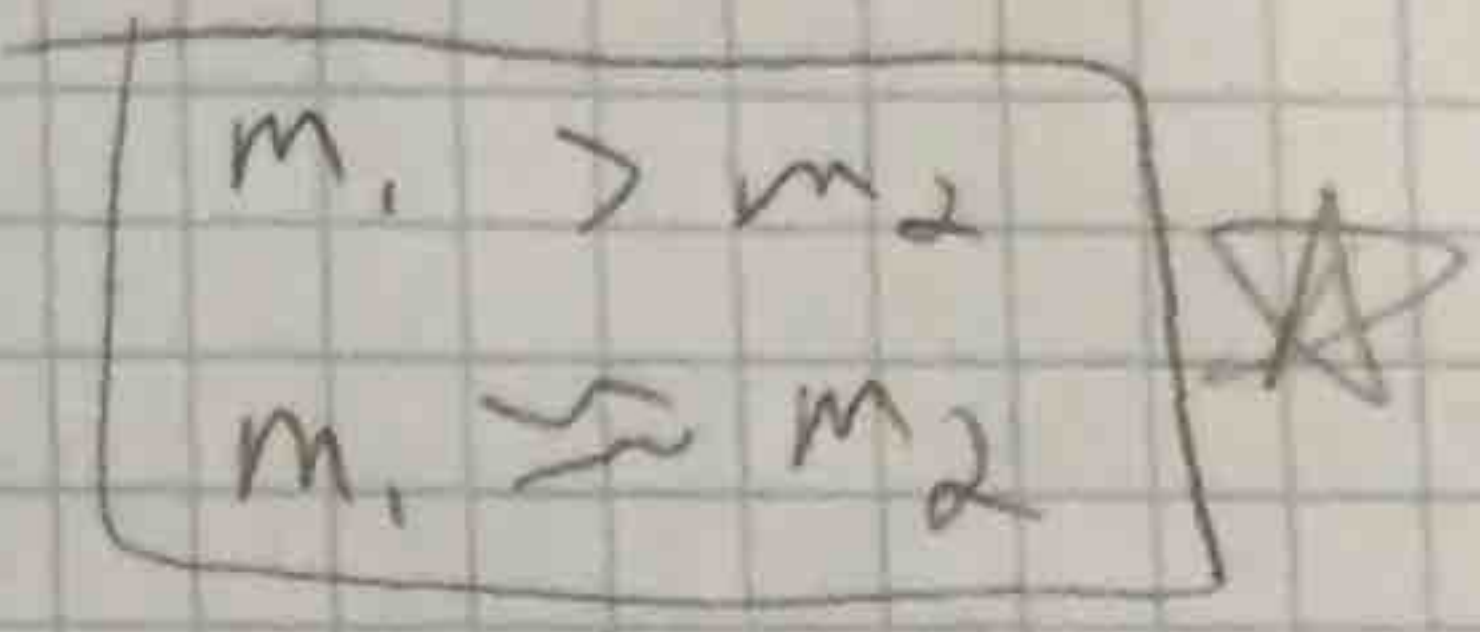
$r = 0.24 \text{ m}$

$I_2 = 0.024 \text{ kg m}^2$

$I_1 = m_1 r^2$

$I_2 = \frac{2}{5} m r^2$ (solid)

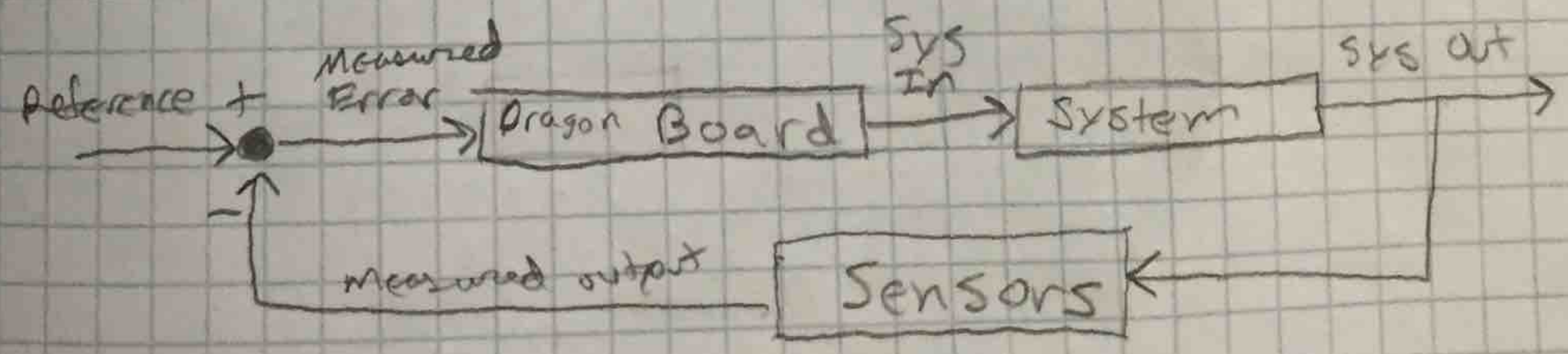
$I_2 = \frac{2}{3} m r^2$ (Hollow)



$m_1 < m_2$

$m_1 \ll m_2$

Negative Feed Back loop



Controller - Dragon Board

System - motors, movement

Sensors - gyro, accelerometer, tilt sensor

update:

11/10/16
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- negative feedback (control system)
- In process of working on dynamics
- Dragon board is setup
 - just need to fix the GPIOs
- Sensors:
 - tilt sensor
 - gyroscope
 - accelerometer

} IMU
- Is python fast enough?
 - maybe use C