**Project Report Outline**

* Motivation and Introduction
* Background
  + PID
  + LQR (depending on time, not developed yet)
* Demo description
  + Web app
    - Dependencies
    - Functionality (manual control, feedback control, sensor status)
  + Firmware
    - Algorithm
    - Dependencies
  + Hardware
    - 3D printed structures and fittings
    - Power supply and voltage regulator
    - Actuator
    - Sensors
    - Microcontroller
  + Communication protocols
    - SocketIO
    - I2C
    - Analog (optional)
  + Calibration
    - Distance sensor
    - Magnetic encoder
* System dynamics (depending on if LQR is included or not)
* Performance assessment
  + Noise
  + Time response
* Conclusions
* References to source materials
  + GitHub repo
  + STL files for fabrication
  + Pertinent datasheets