Senior Design Update Meeting 1
2/7/25

- Prototype/finalized design of the body
    - Open up the legs for ease of access
    - Ovular shape for access
    - No threading
- Schafer's comments for the body
    - Bottom of legs will matter
    - Article on hack-a-day for threading
        - Make whole larger and places where it bulges
    - Senior Design website for print code
        - Filament is free
    - Can make mounting hole as big as we want since something will be pressed against
    - Look for dreamweaver
        - Adobe high end website development
- Power and motor
    - Weren't sure what to use for torque ratings
    - RC batteries are most common
    - Worried about discharging
    - Couldn't find data sheets for voltage protection
- Schafer's comments for motors and power
    - Stalling leads to stripped gears
    - Duracell has datasheets for batteries
    - 18650 batteries would be obvious choice if we used replaceable
    - Charging depends on access and weight distribution
    - Can use D-cells
    - Lithium batteries would be a good choice to source a lot of current
        - Are some in the back office
    - Could use a hole and USB for charging
    - Look into how RC vehicles use batteries
        - Is there protection built into it?
    - Using a MOSFET
        - Circuitry to monitor the voltage
        - Turns on and off MOSFET when it gets to a level below the desired threshold
- Website
    - Upload HTML file "top_page"
    - Can Link to other things within

- Can use ND template or build our own
- Has to be resident tech
  - Can’t link to a google drive cause Schafer can’t download
- Dreamweaver
  - Debartolo computer lab has some