

# Lidar Sensor Box

# design goals

use durable, cheap material  
easy movement for panning and tilting  
waterproof

# past design

plastic box with acrylic “window”  
motors held together by paper clip hinges  
epoxied to thrust ball bearing

# restrictions

waterproofing

clear plastic manufacturing + visual distortions

dimensions

idk how to manufacture anything except for 3d printing



# lidar + 2 motor



## lidar-lite v3

size 51x25x25 mm

cost 128.95

# lidar + 2 motor

## micro servo

tilt 90° CW & CCW  
size 23x11x29 mm  
cost 5.95

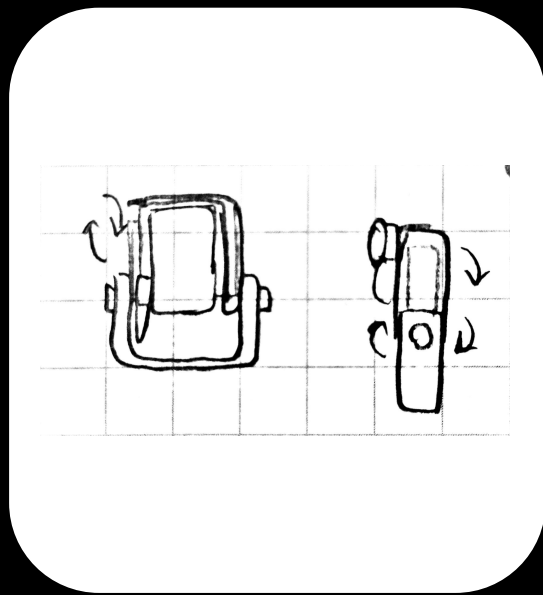
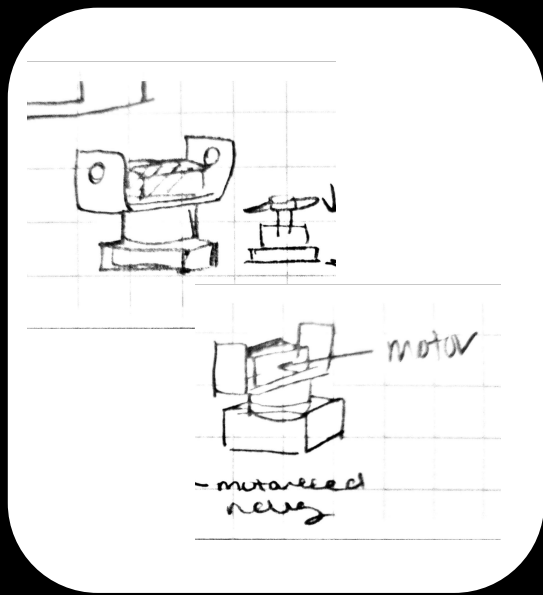
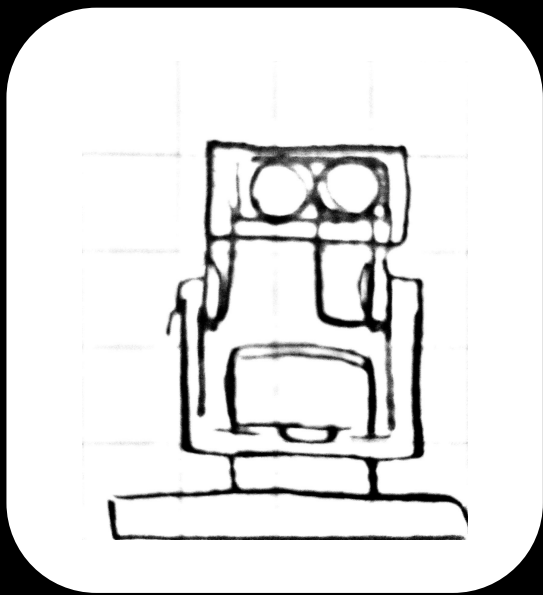


# lidar + 2 motor

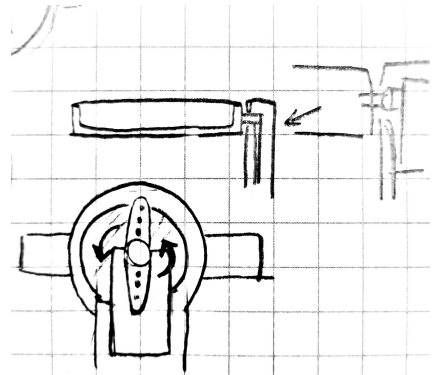
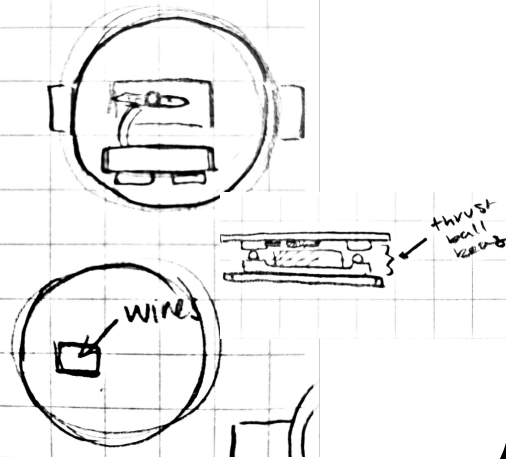
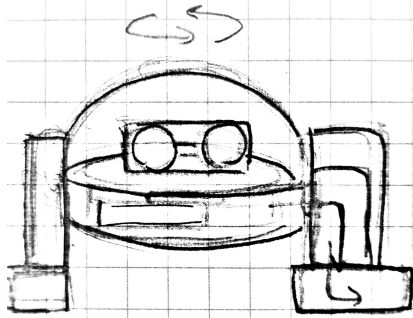


# design ideas

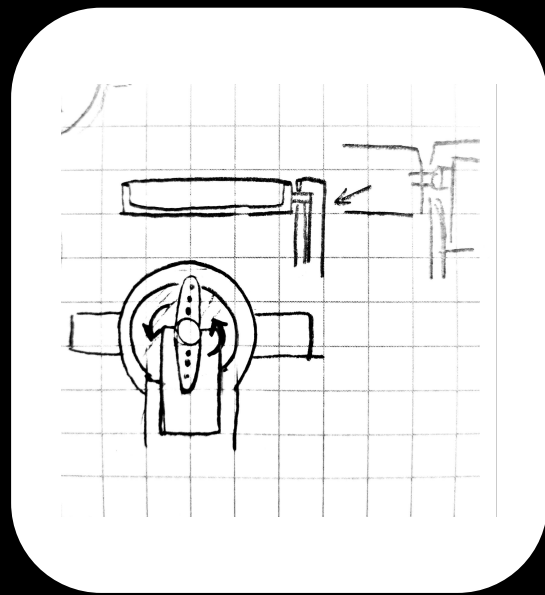
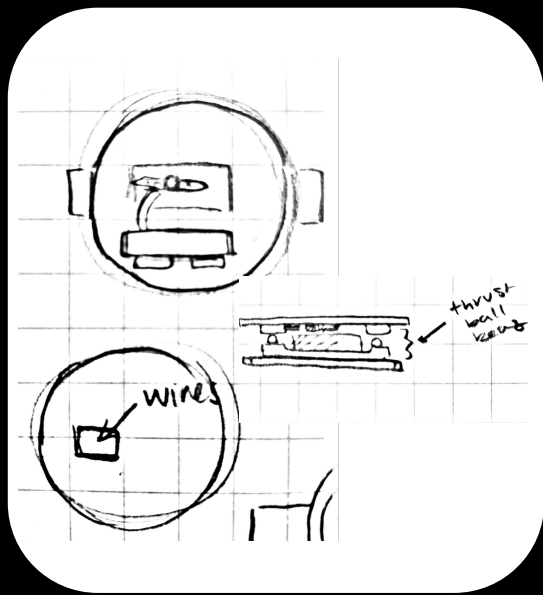
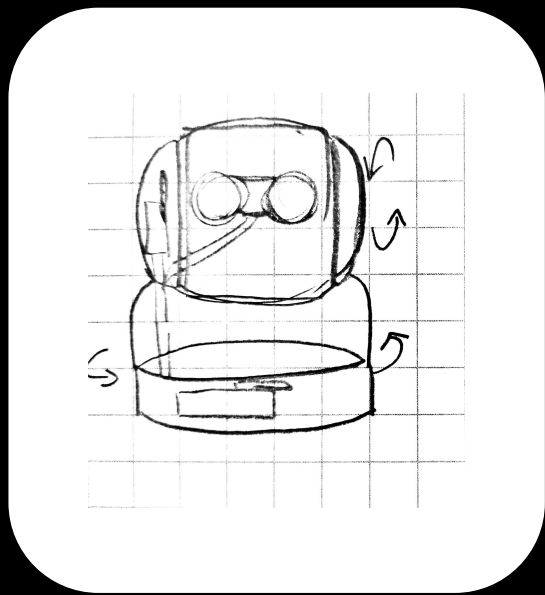




cctv



r2d2



webcamera

# to buy

Koller Products Panaview 1-Gallon Globe Fish Bowl

4.74

Skate ball bearing

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5.33

acrylic sheet (6" x 6" x .25")

8560K358

5.82

micro servo (2)

169

11.90

# how to build

3d printing + epoxying

haven't gotten dimensions from navteam

sanding/cutting

# future steps

- figure out all the dimensions
- order the micro servos (?)
- test refraction of plastic material
- test waterproofing