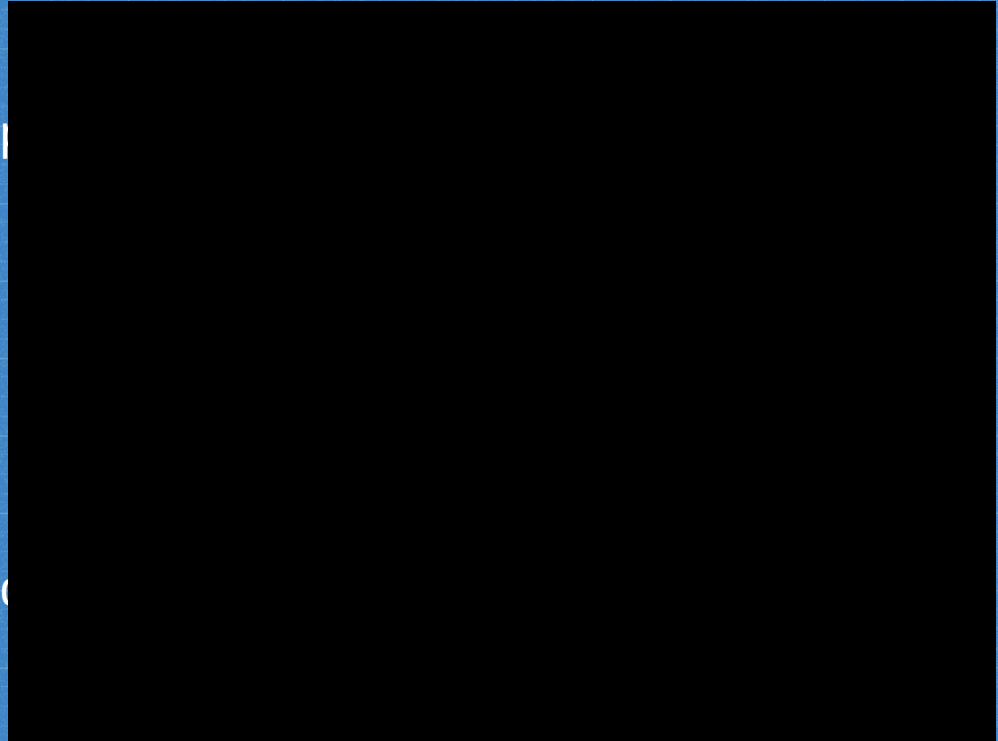


Dry Erase Board Robot - DrawGüd

Ben McDermott, Ronan Gissler, and Taylor Korte

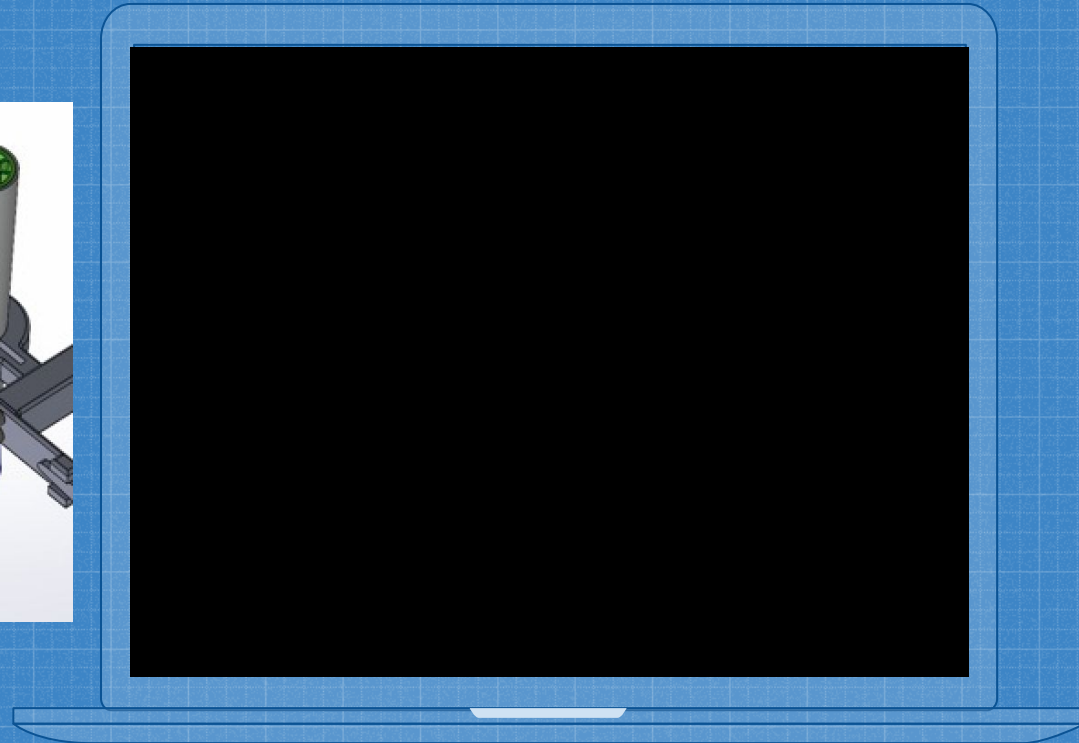
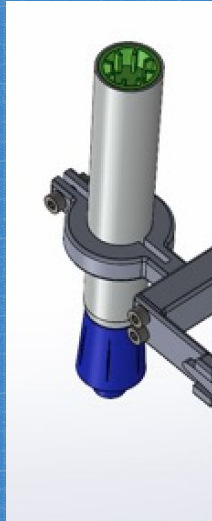
THE DESIGN

- 2 Linkages
- 1 Expo marker clamp
- 2 Small servos
(elbow and wrist)
- 1 Big servo
(shoulder)
- 1 Dry erase board
mount with embedded
magnet
- 3 Roller Bearings



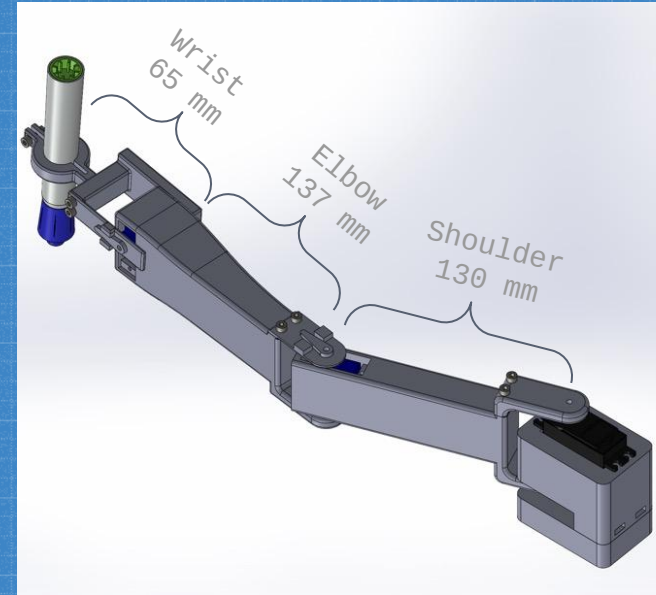
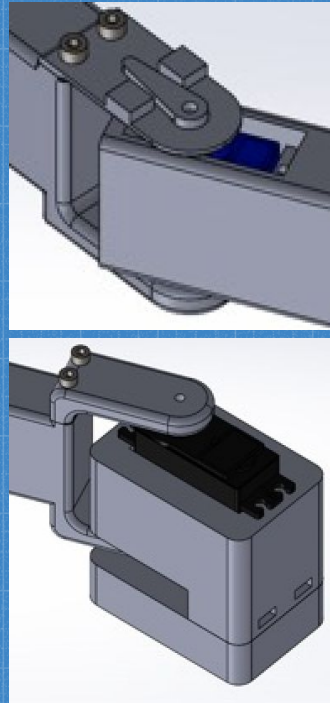
DEMO AND DESIGN DECISIONS

- Included wrist joint to lift marker off of board
- Using small servos to reduce weight
- Detachable servo grips for easy assembly
- Roller bearings embedded into the arms for smooth rotation



NEXT STEPS

- Create a mapping of letters
- Use these mappings to find desired x,y coordinates of arm
- Use inverse kinematics to translate these x,y coordinates into theta values for the servos



Material: PLA

Thanks!
Questions?

