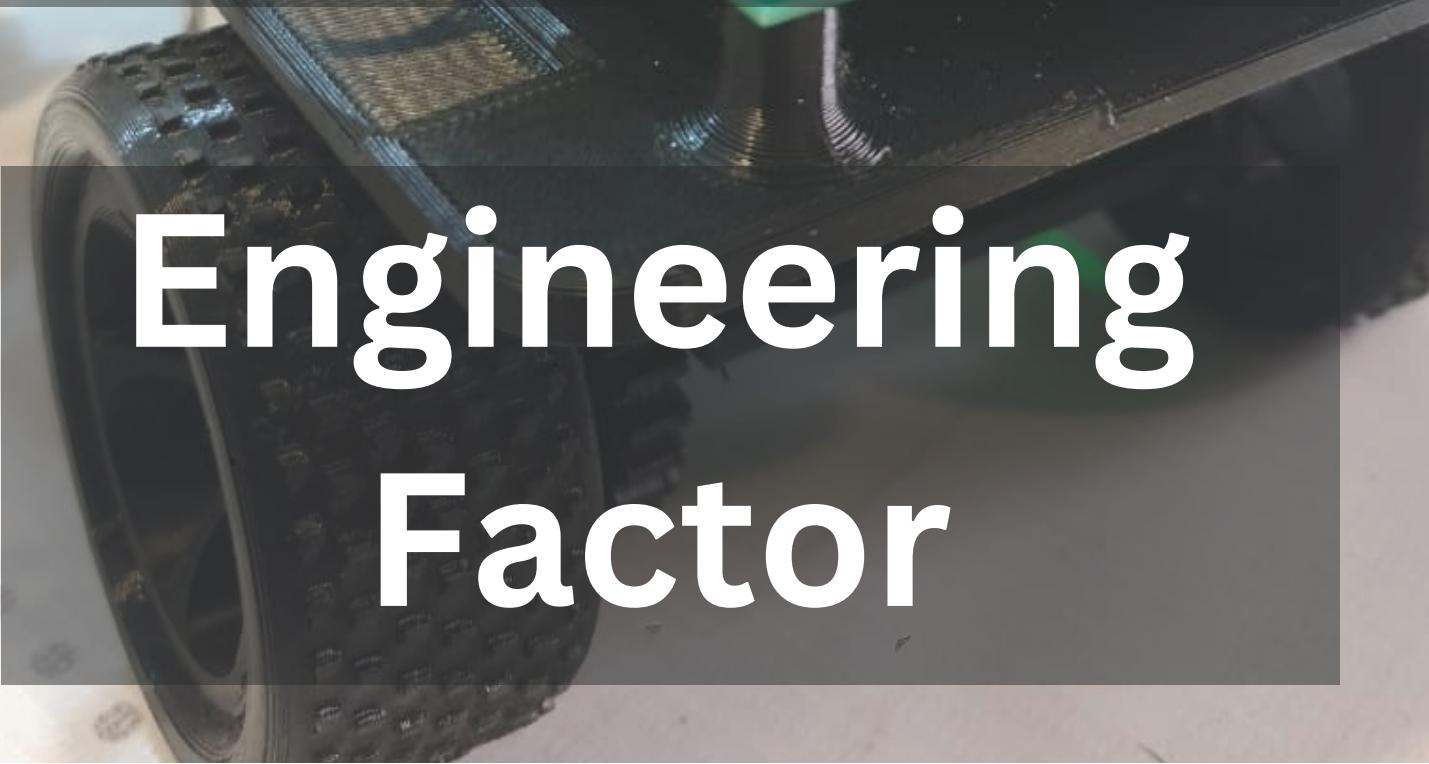


AC\_TEAM\_X



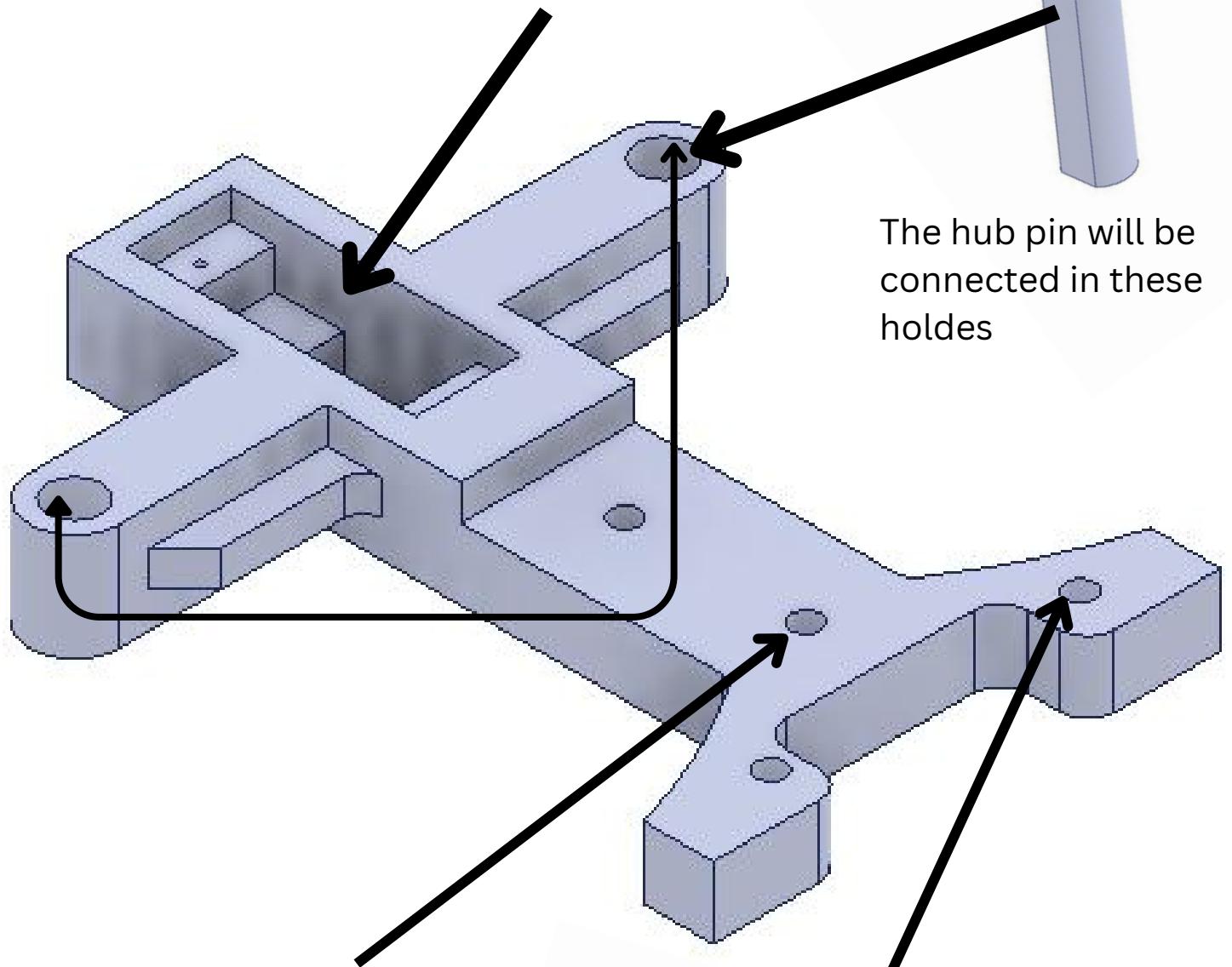
Engineering  
Factor

# Engineering Factor

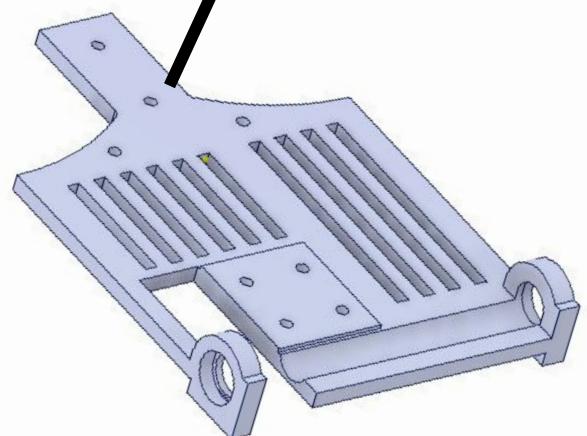
- We have made our own design and didn't used the off the shelf RC or modular construction kits available in market
- We have designed the car in a flexible way that we can replace all the components easily.
- We are sharing our design in the next page.

# Main Base part 01

## Servo motor Holder

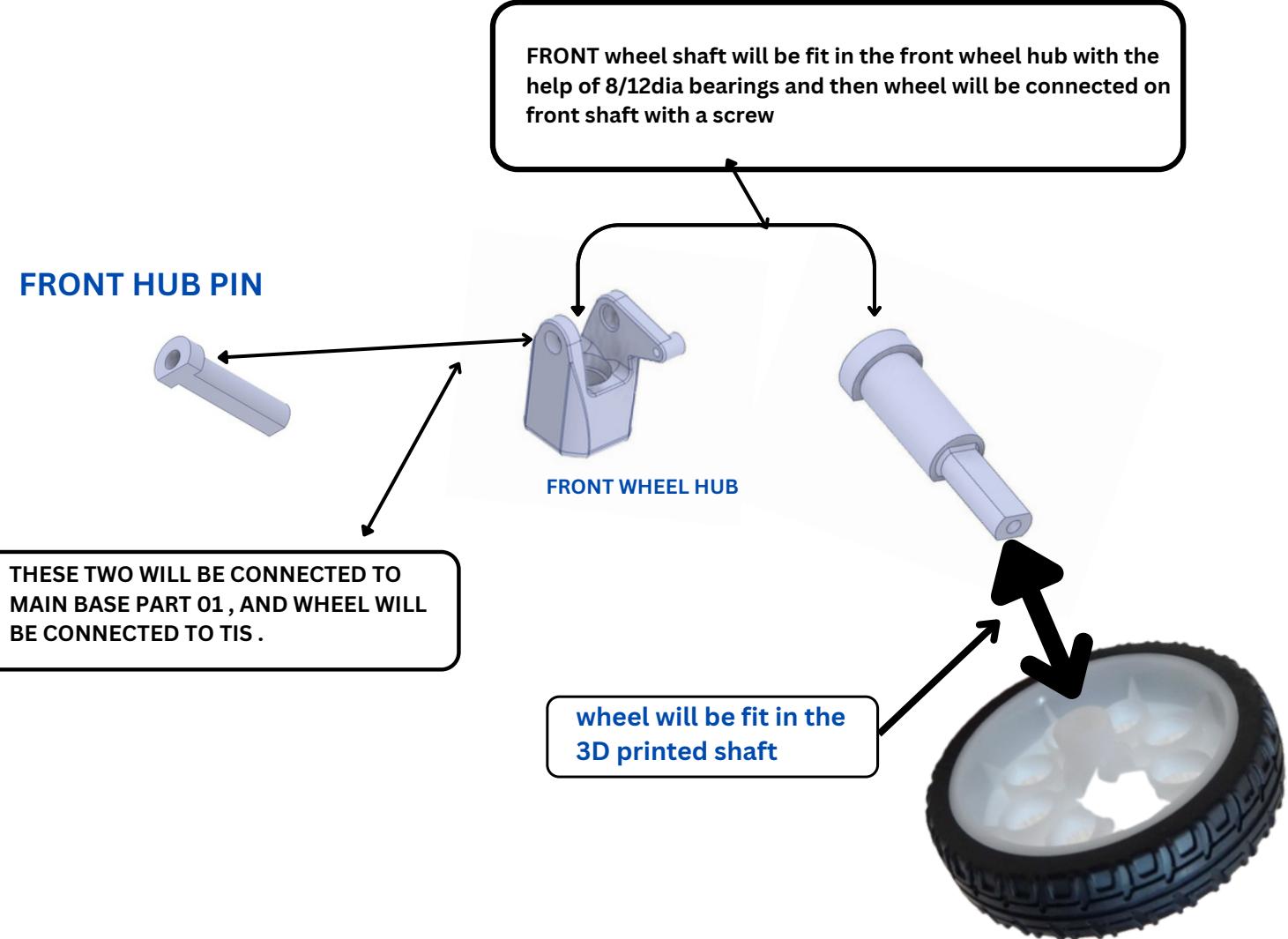


These holes will be connected to  
main base part 02 via m3 screws

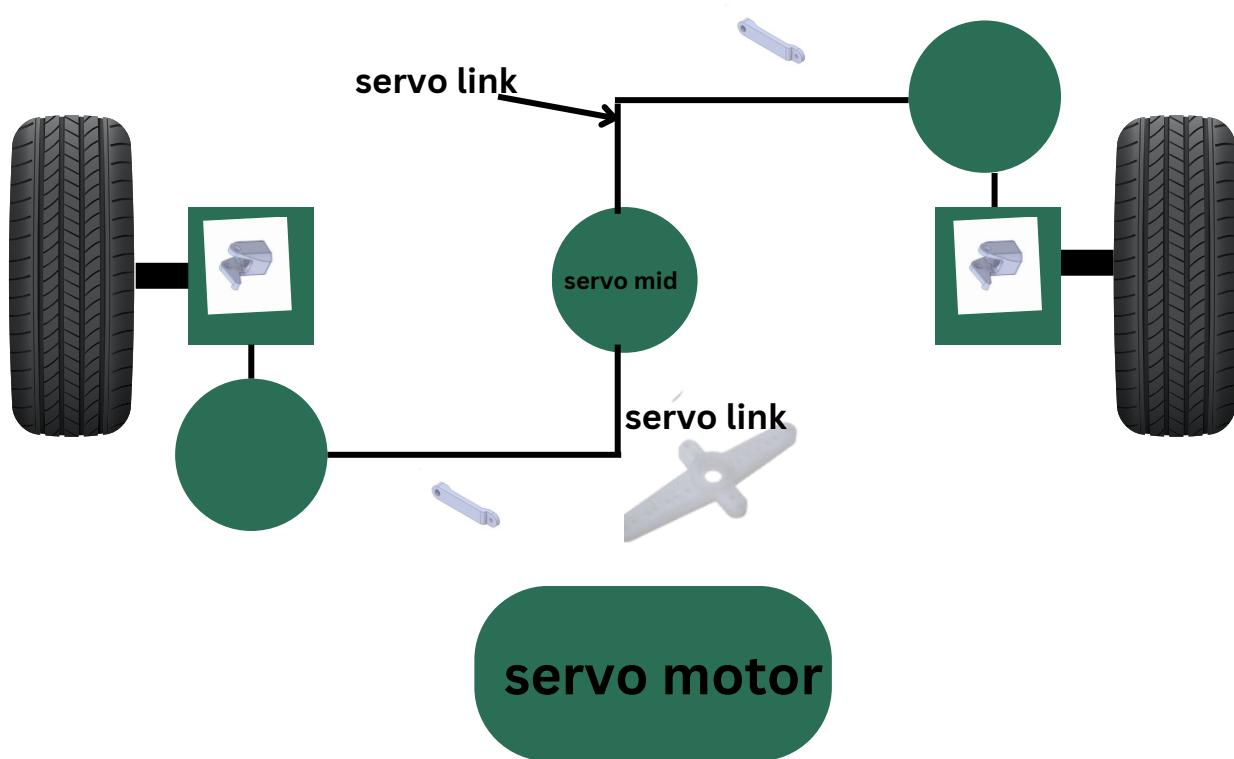


main base part 02

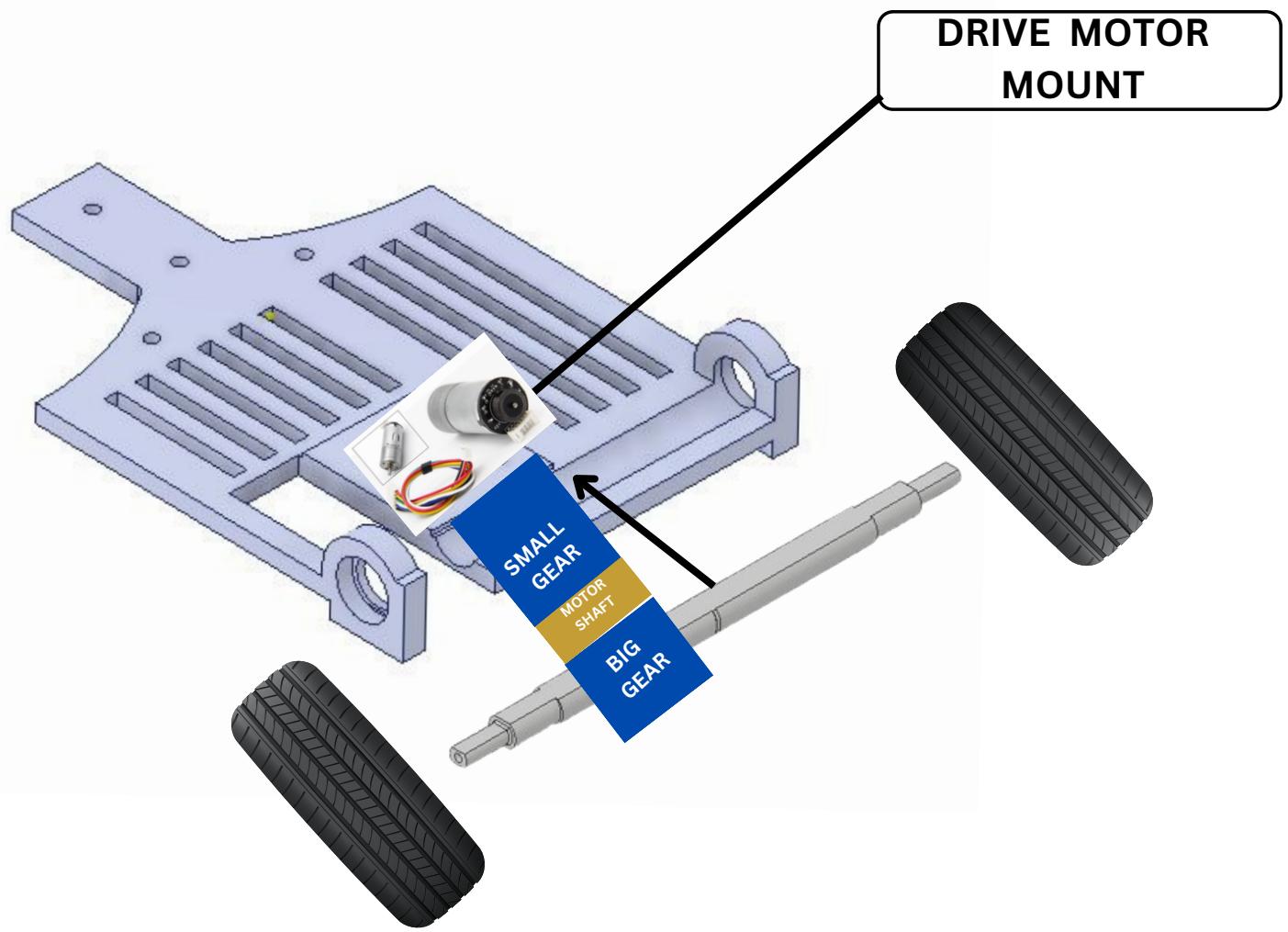
# Front Wheel connections



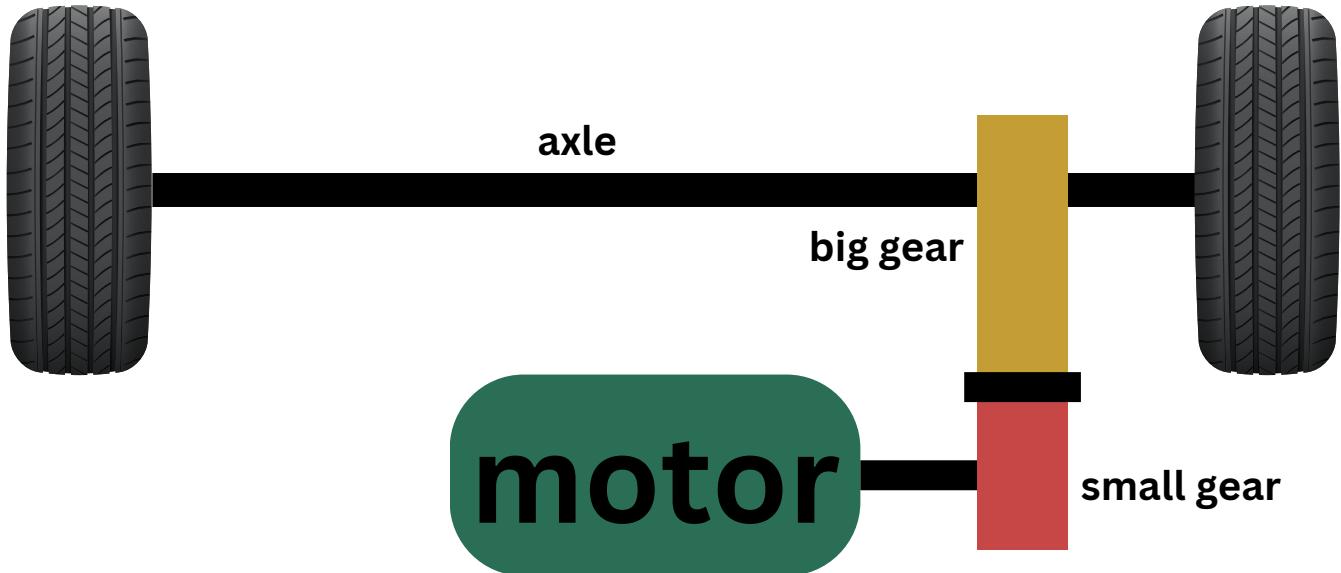
## Block Diagram of Front side



# BACK SIDE



# Block Diagram of back side

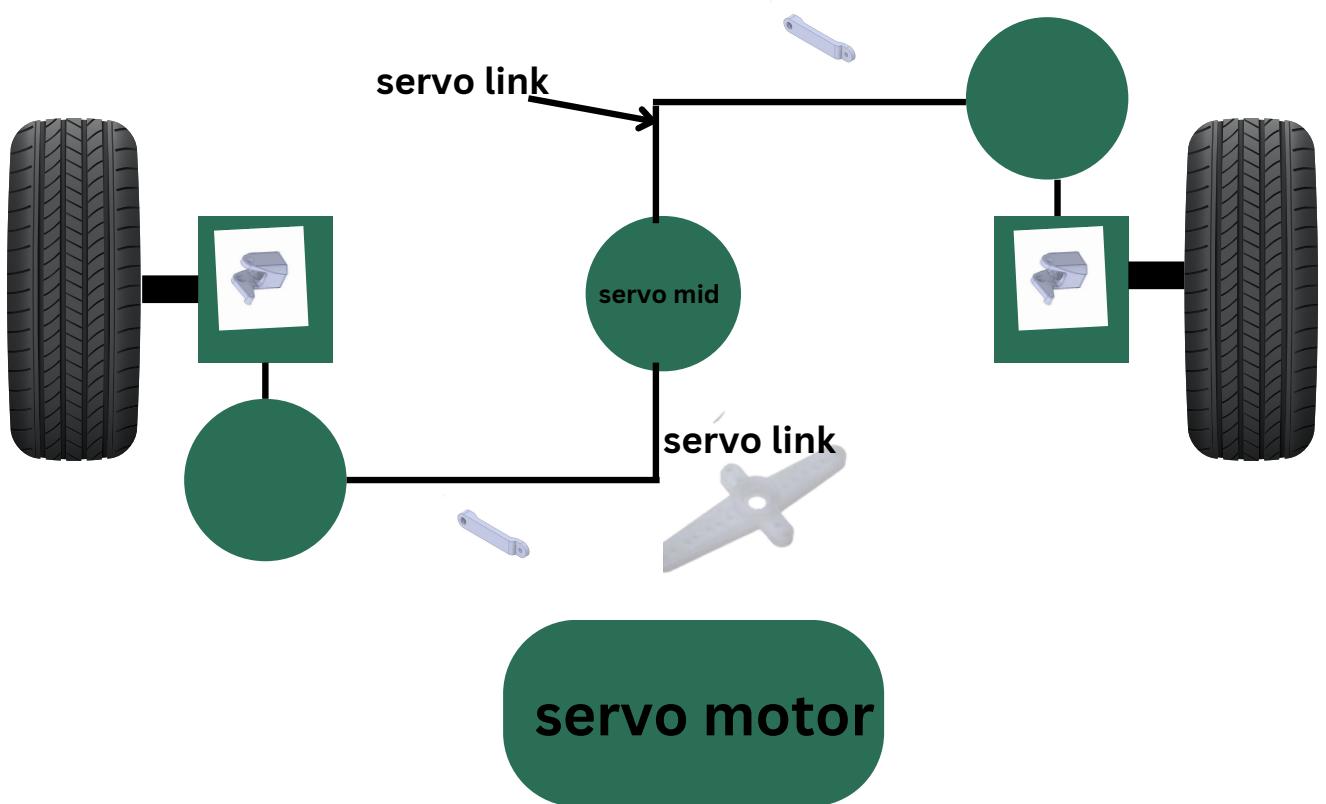


## why small gear on motor and big gear on axle of wheels?

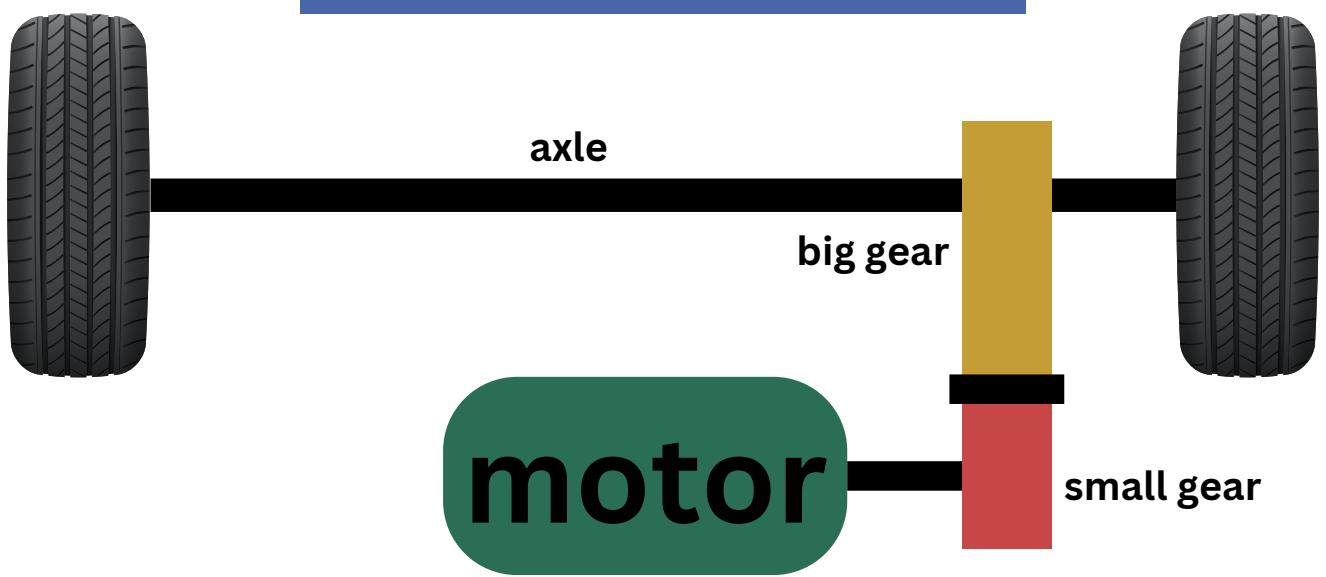
In a gear reduction system, having a small gear on the motor and a larger gear on the axle connected to the wheels results in an increase in torque and a decrease in rotational speed.

This setup follows the principle of gear ratios: when a smaller gear (pinion) meshes with a larger gear (gear wheel), the rotational speed of the driven gear (axle connected to wheels) decreases while the torque increases

# BLOCK DIAGRAM



**MAIN BASE  
(PART 1 , PART 2)**

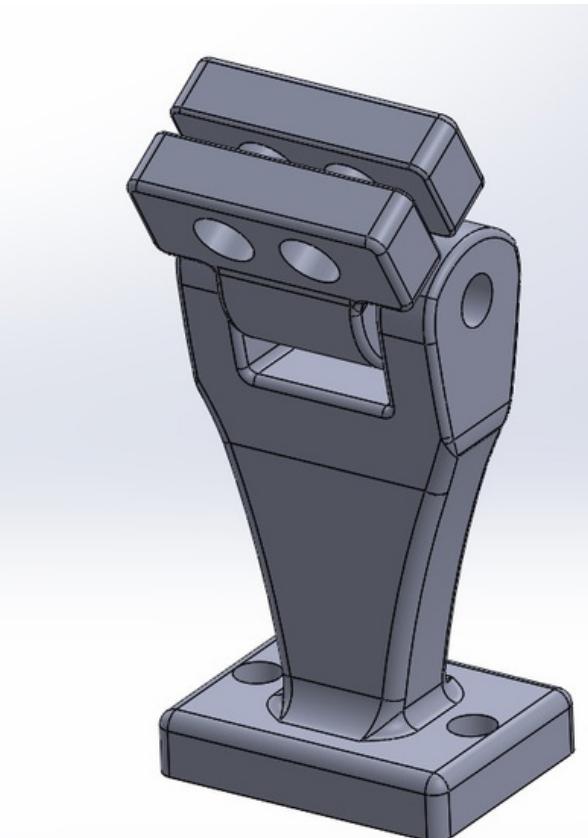


# sensor holder

WE HAVE USED THESE C-SHAPED WIRE HOLDER FOR HOLDING AS OUR SENSOR HOLDER ON FRONT , LEFT AND RIGHT

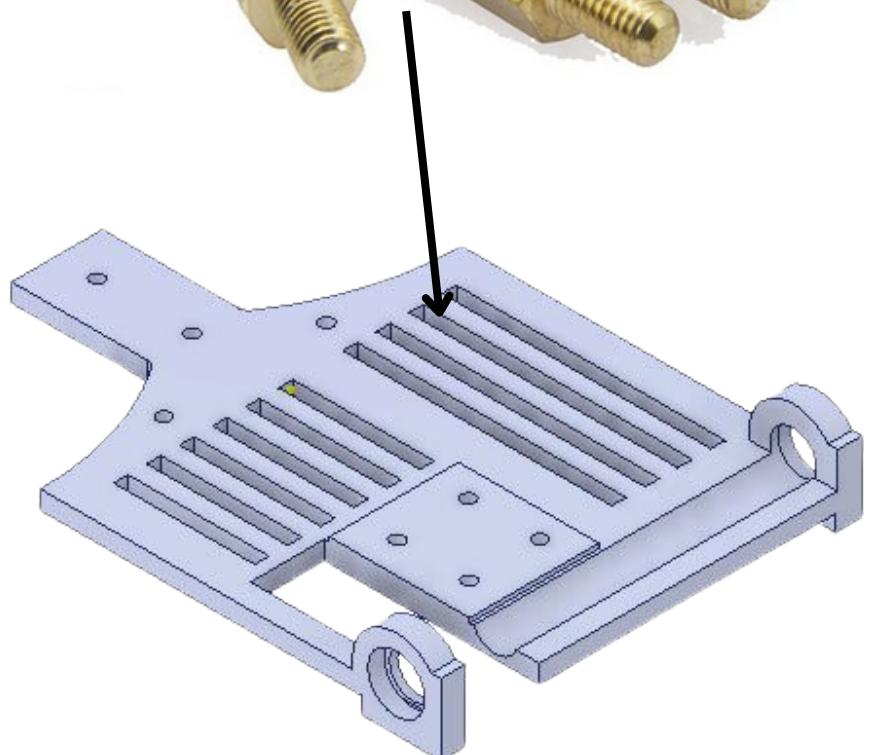
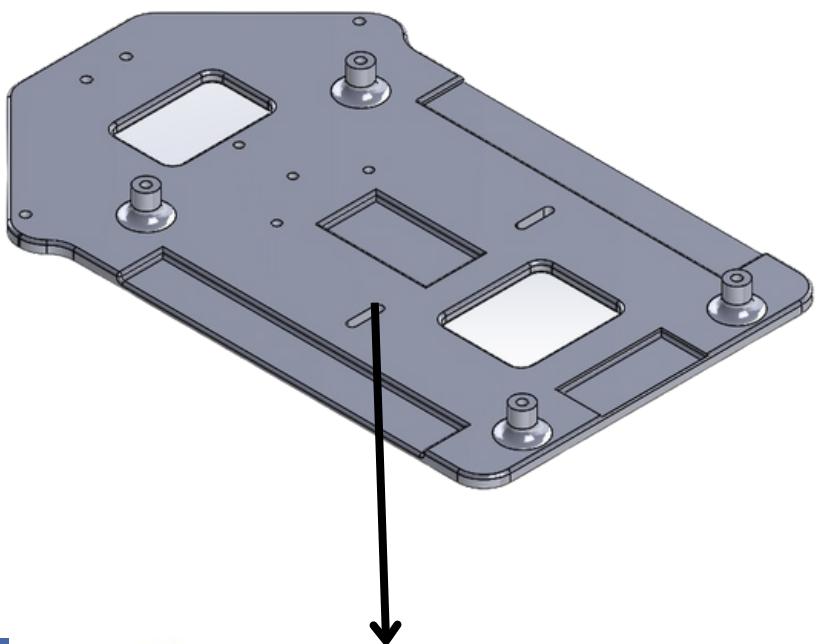


# 3D PRINTED PIXY CAMERA HOLDER

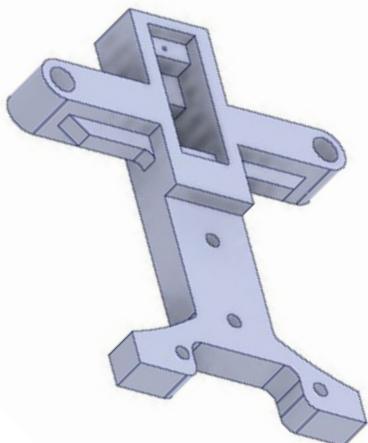


# CONNECTING UPPER BASE AND LOWER

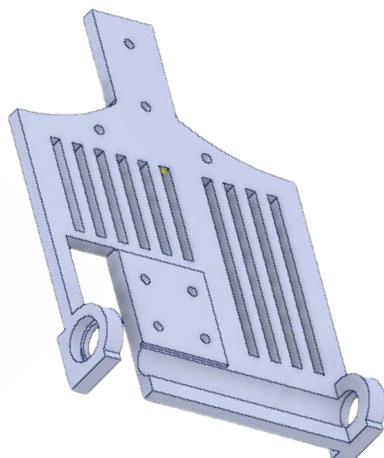
We have used these  
spacers for  
connecting upper  
base and lower base



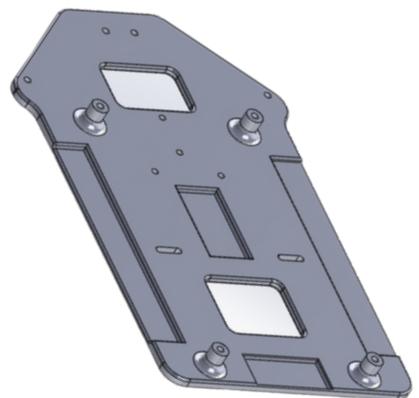
# All parts



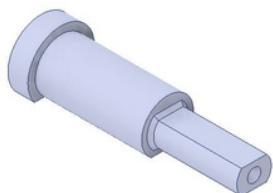
MAIN BASE 1



MAIN BASE 2



UPPER BASE



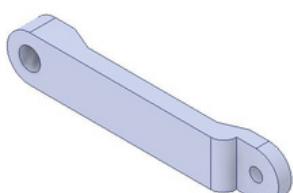
FRONT WHEEL SHAFT



HUB PIN



WHEEL HUB



STEERING LINK



BACK WHEEL AXLE



BIG GEAR



SMALL GEAR



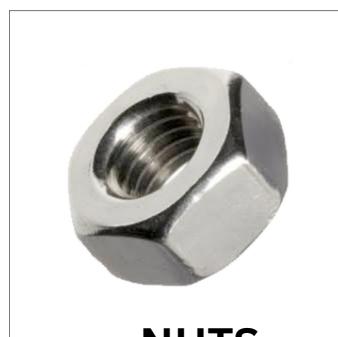
SPACER



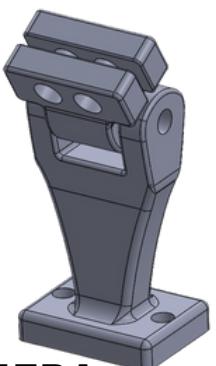
SENSOR HOLDER



SCREWS



NUTS



PIXY CAMERA