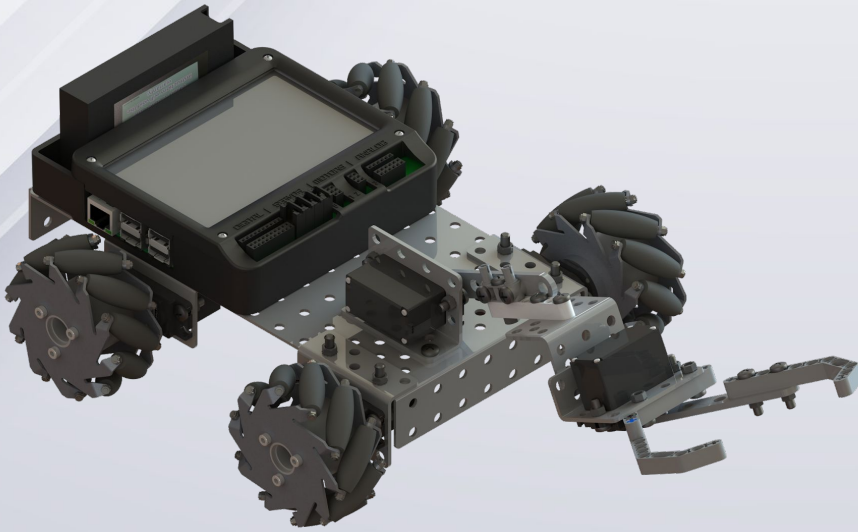
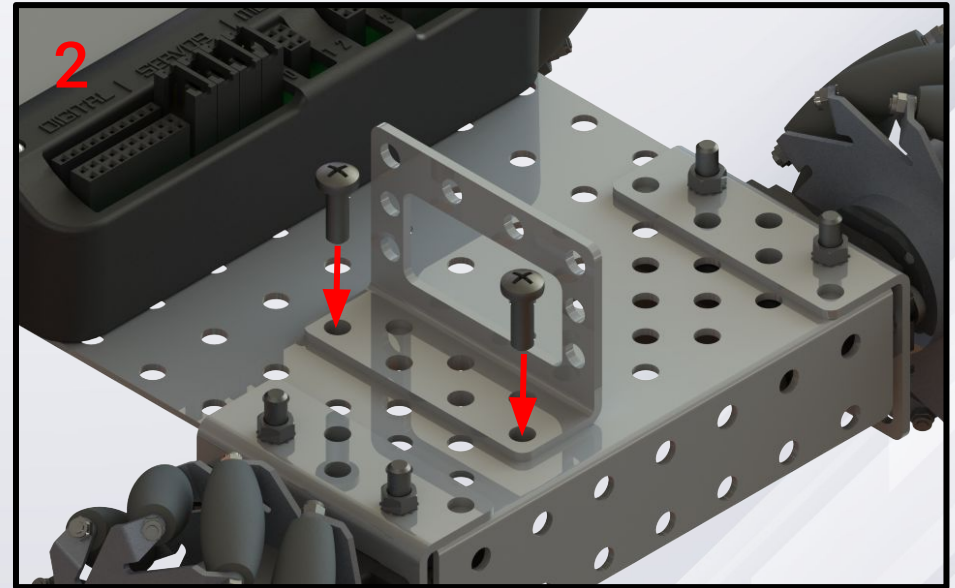
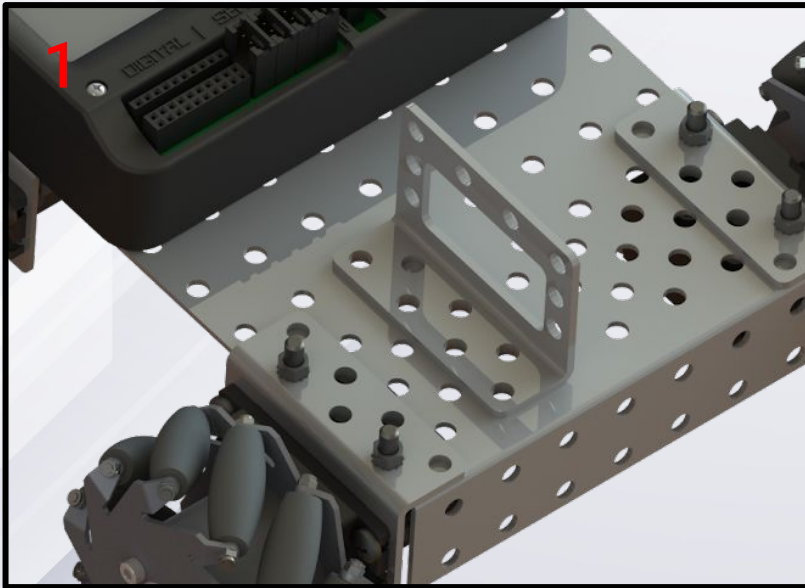


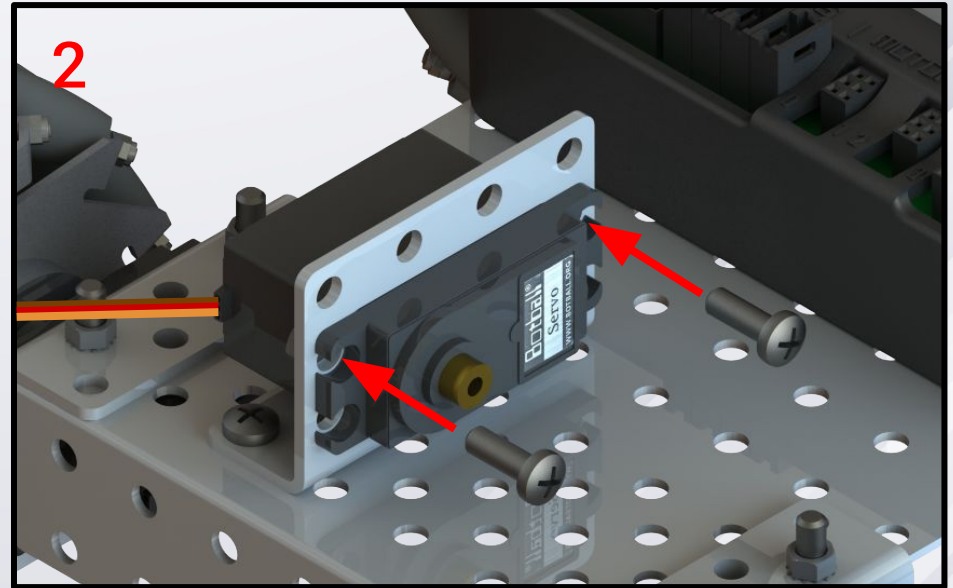
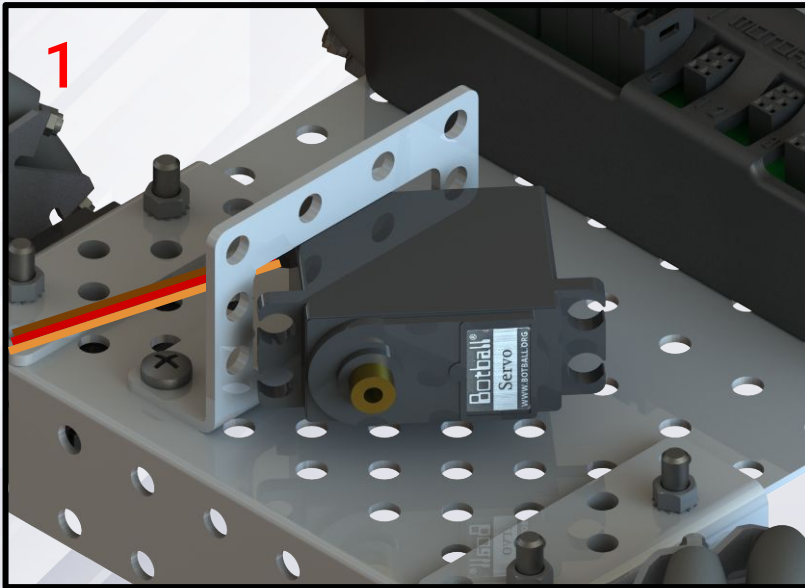
# KIPR Servo Mecanum Demobot Build



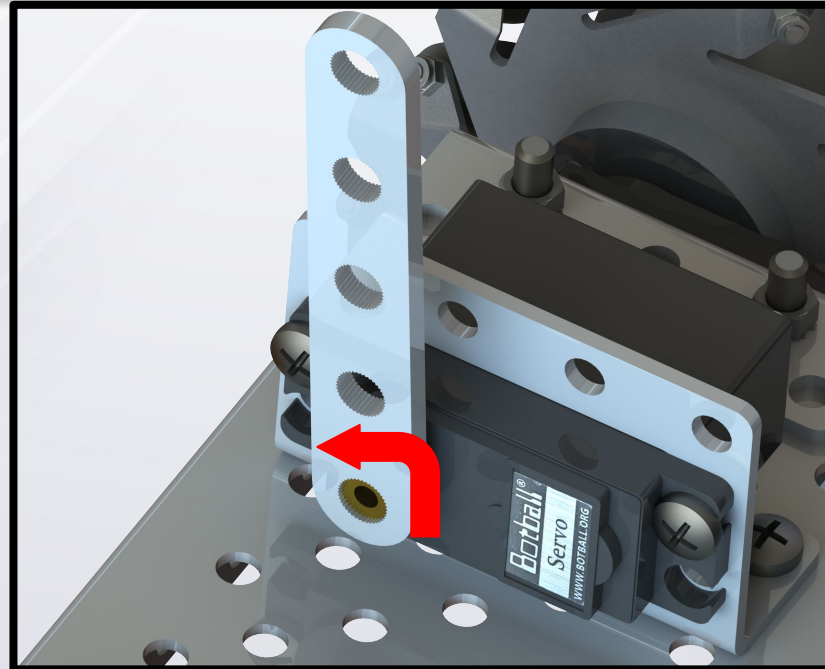
Please follow the slides to complete the assembly of your robot. This requires the base mecanum demobot to be built first.



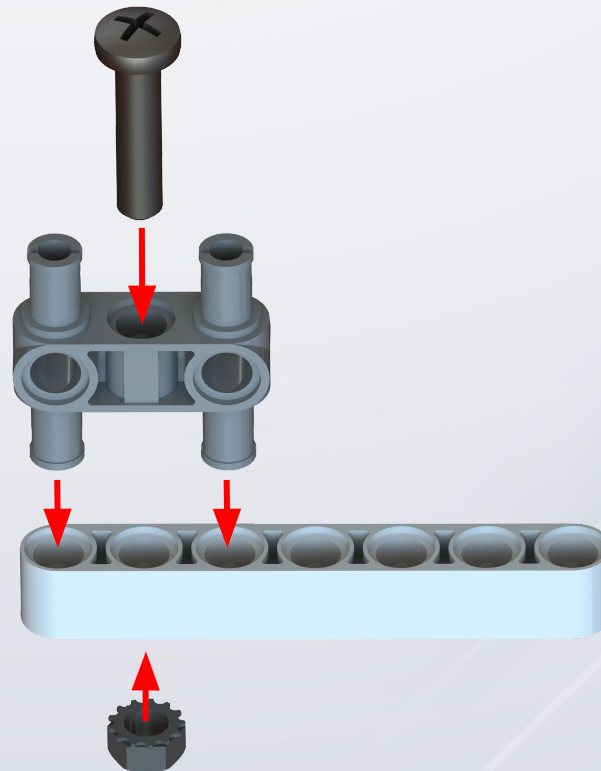
1. Line up a servo bracket on the long end of the chassis as shown.
2. Attach the bracket to the chassis with two medium bolts and two nuts.



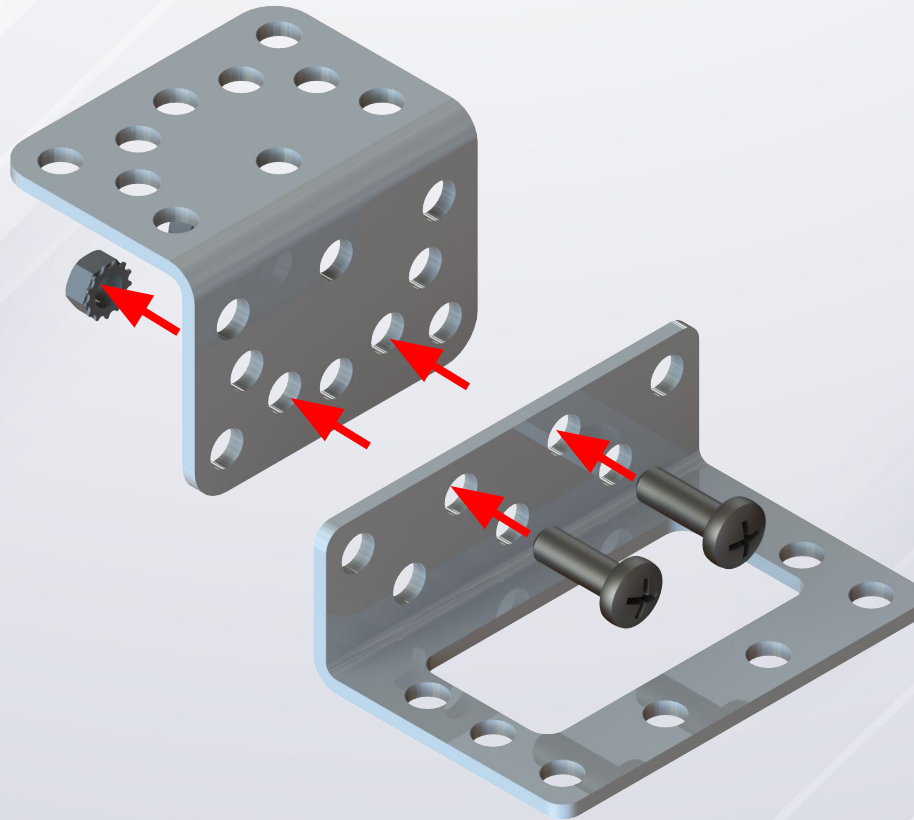
1. Slide a servo into the servo bracket, wire end first, with the spline towards the front of the robot.
2. Secure it to the servo bracket with two medium bolts and two nuts.



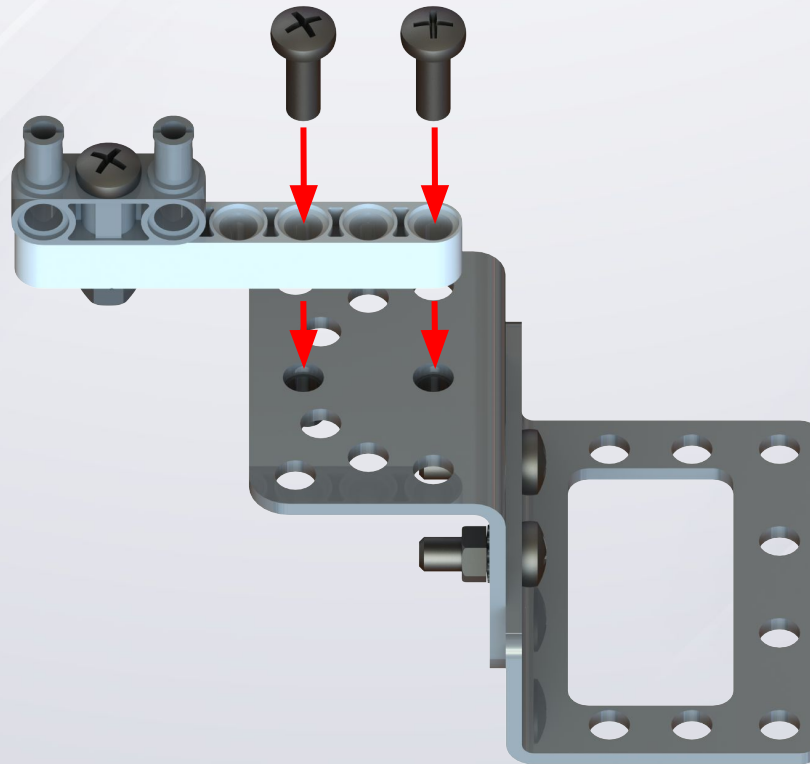
1. Place the 1x5 Servo Horn on the robot as shown.
2. Rotate the servo head with the 1x5 Servo Horn all the way away from the robot.
3. Repeat these steps until the servo can no longer turn then place the servo horn on the servo so that it faces as far down as it can go.



1. On one end of a 1x7 Liftarm, attach a Lego H-Pin.
2. Secure it in place using a long bolt and nut.



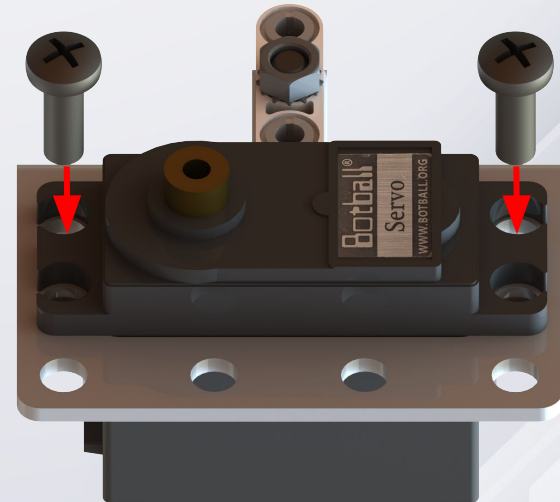
**Attach a L Bracket to a Servo Bracket using a medium bolt and nut as shown.**



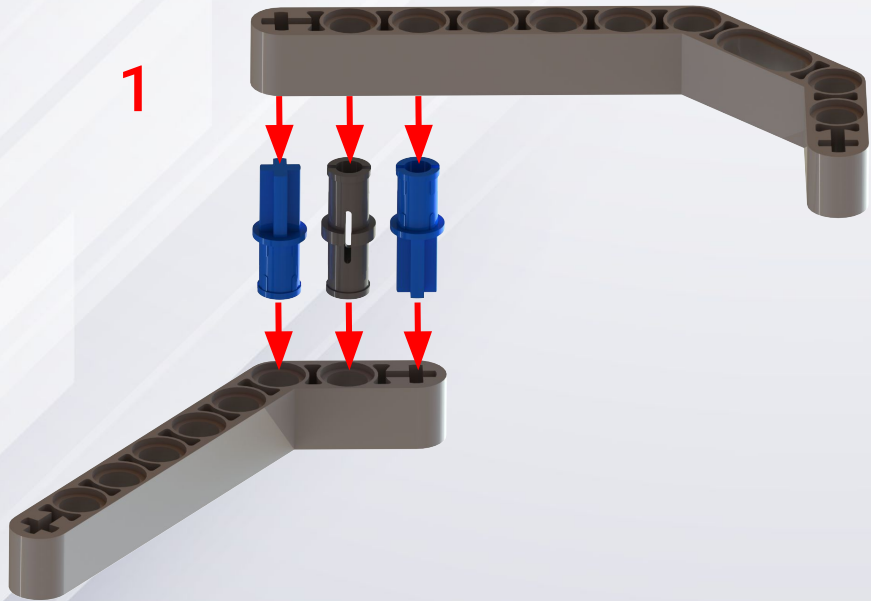
**Attach the Lego assembly to the top of the L bracket as shown using two medium bolts and nuts.**



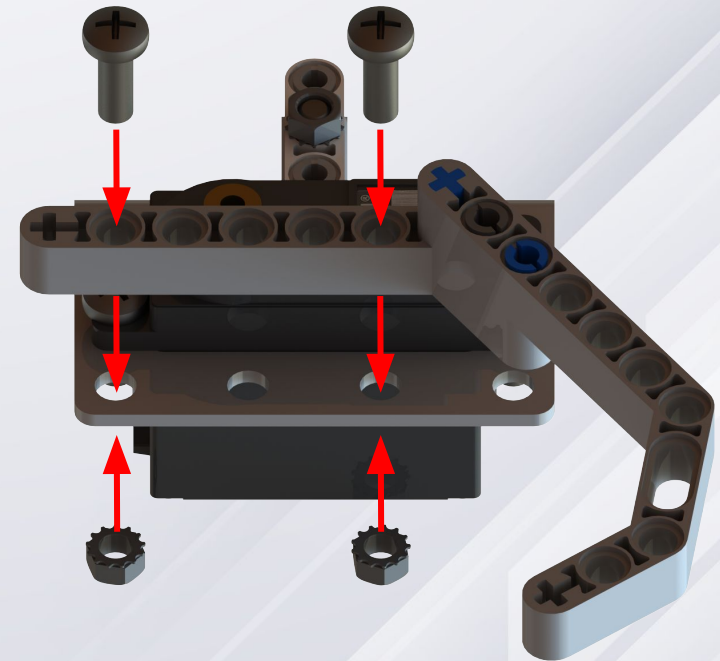
2



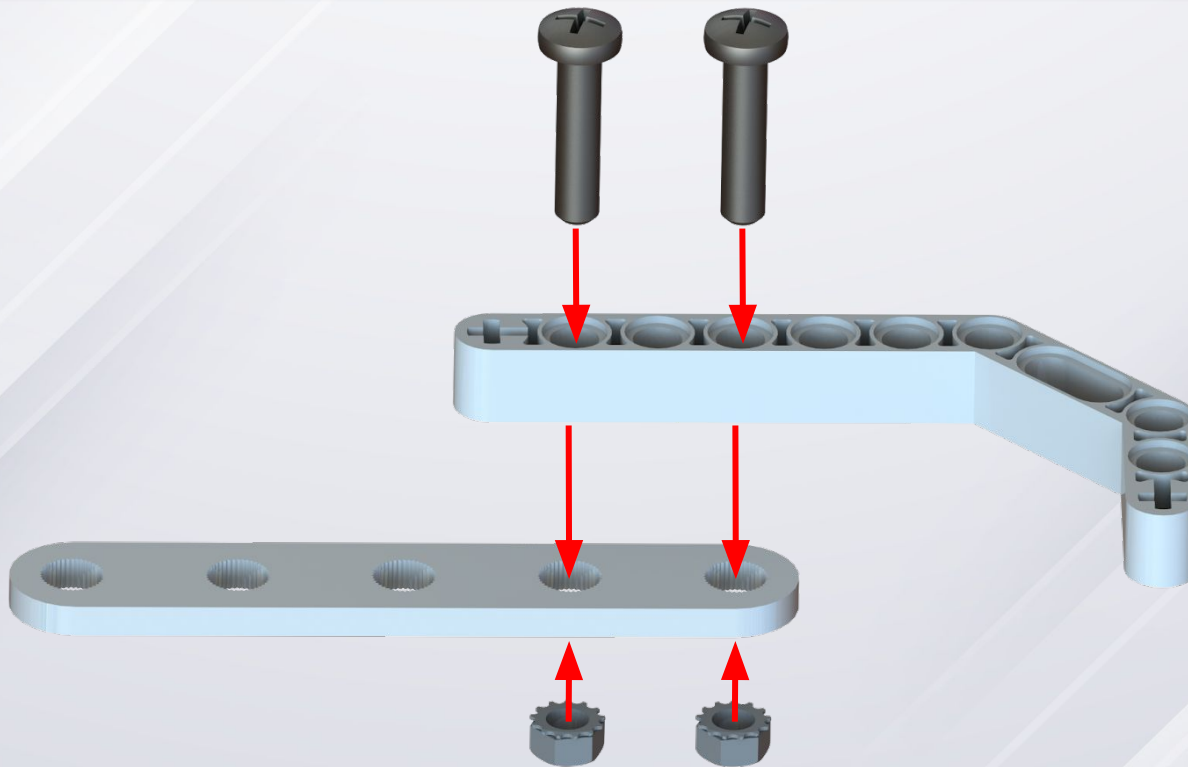
1. Flip the assembly over and place a servo in the servo bracket wire first.
2. Secure it in place using a medium bolt and nut.



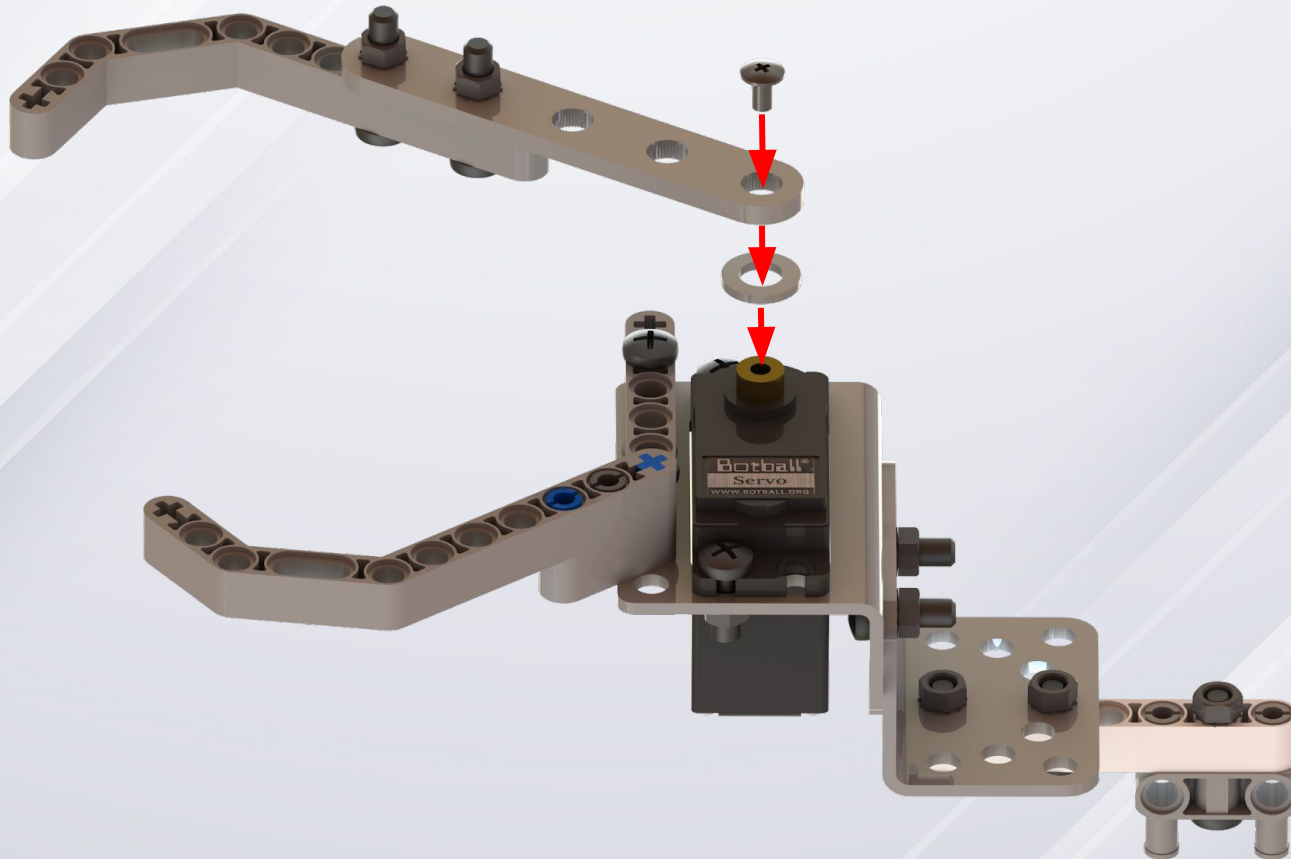
2



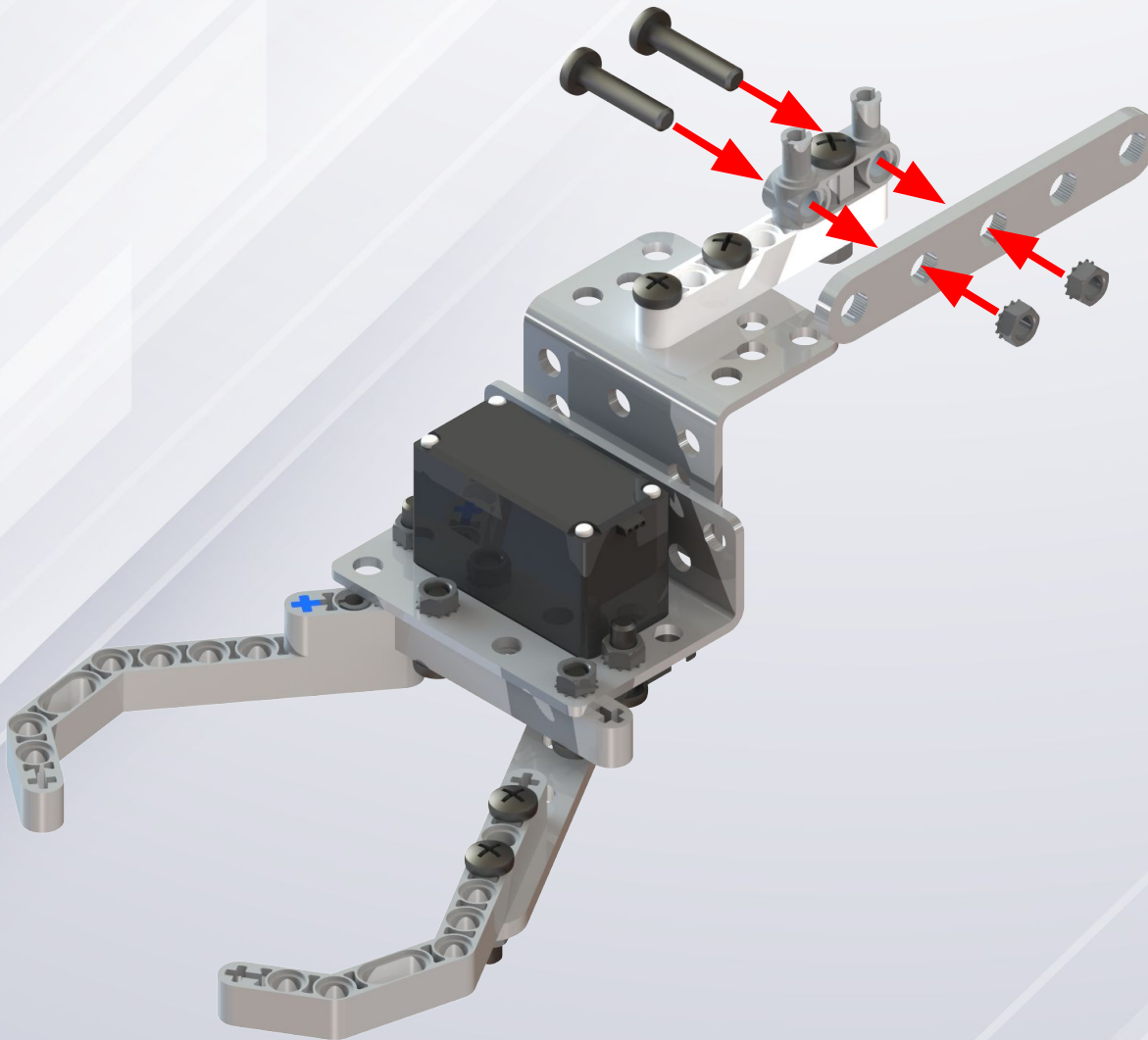
1. Attach a 3x7 Bent Liftarm on the short end to the long end of a Claw Liftarm using two blue axle pins and one black pin.
2. Flip the assembly back over and secure it to the servo bracket using two long bolts and nuts as shown.



**Attach a Claw Liftarm to a 1x5 Servo Horn using two long bolts and nuts.**

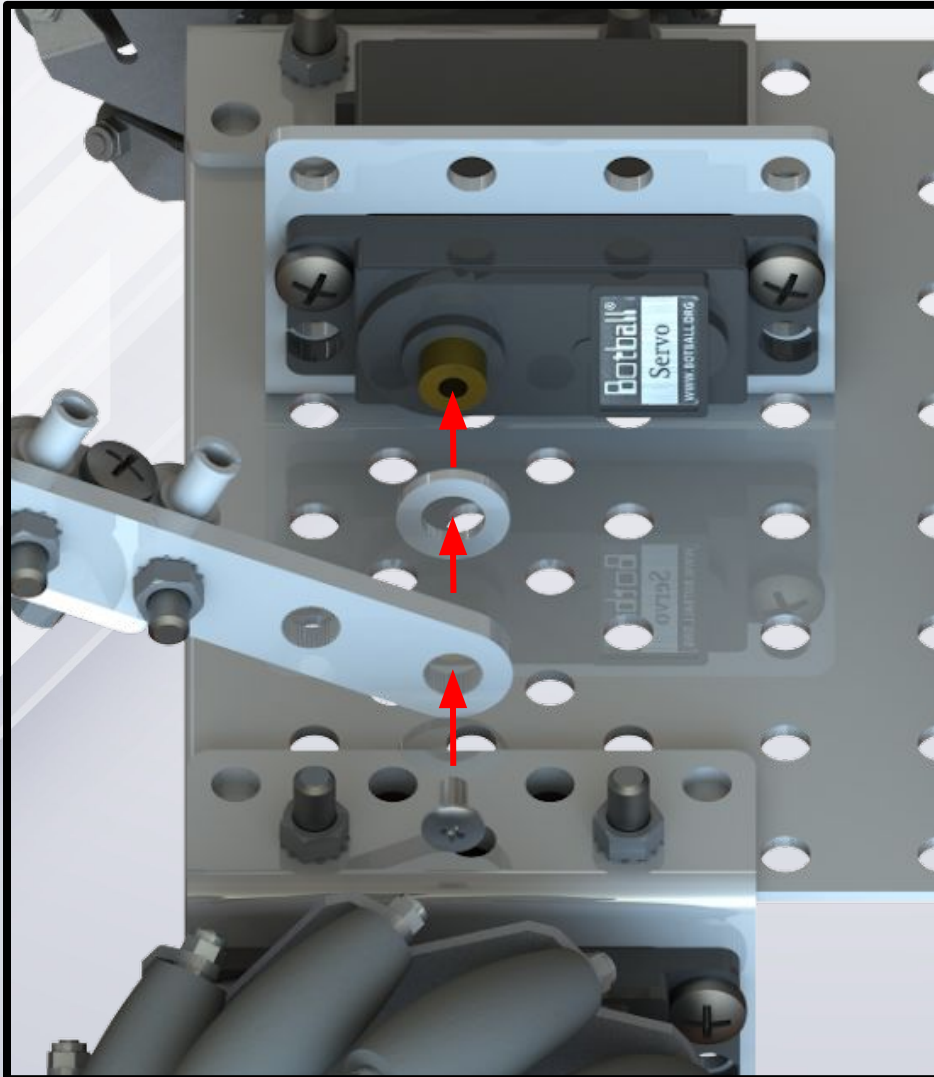


Attach the claw to the servo with a washer beneath it and the small silver bolt that came with the 1x5 Servo Horn.



Attach a 1x5 Servo Horn to the Lego H Pin using two long bolts and nuts so that two of the middle holes on the servo horn align with the holes on the pin.

The servo horn may still be attached to your robot.



Attach the claw assembly to the servo on the robot by putting a washer on first, then the claw assembly and secure it in place using a small silver bolt that came with the 1x5 servo horns and washers.

# Servo Mecanum Demobot Finished!

