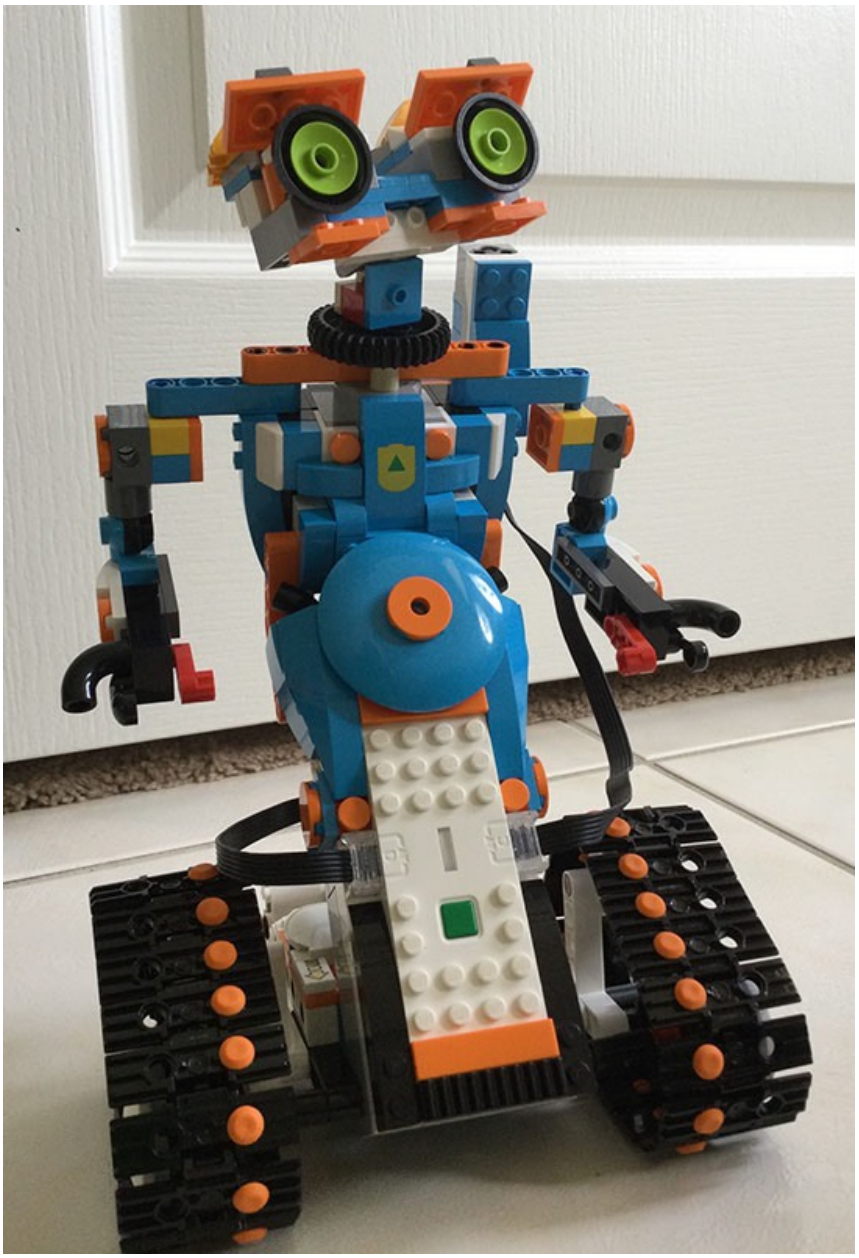
LEGO BOOST Johnny 5

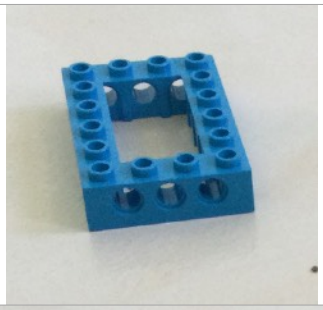
By Rowan, age 9

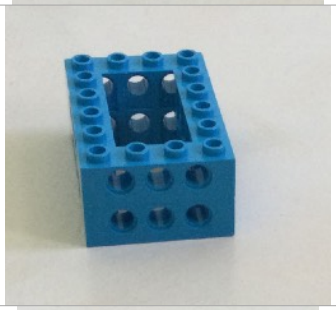
Inspired by the movie *Short Circuit*

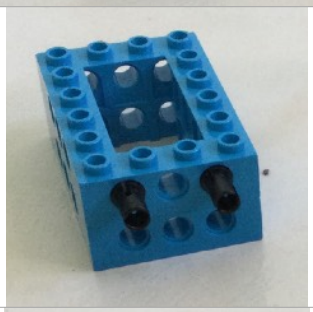
Programming instructions start on page 47.

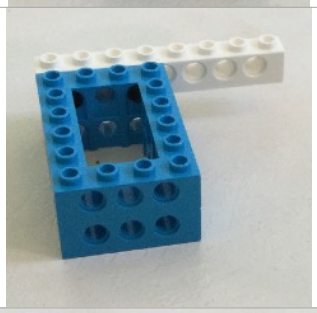


We start by building the stand.

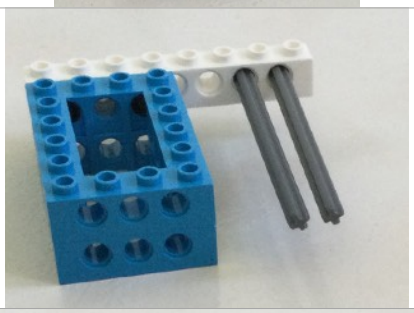




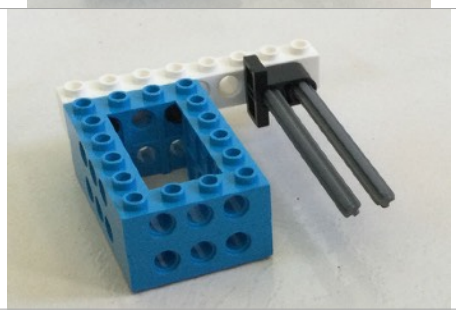


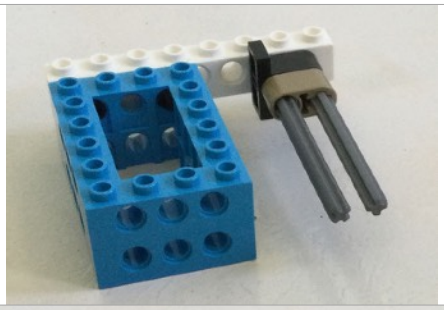


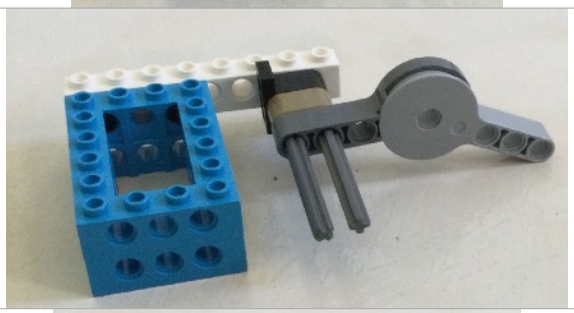
Add long axles



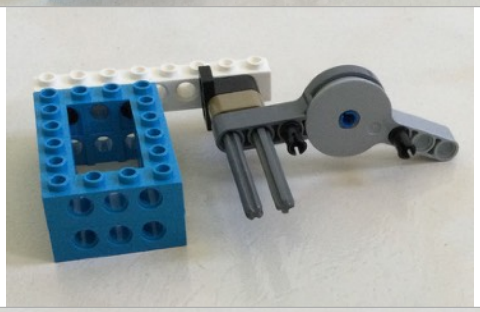
Slide the black piece on.

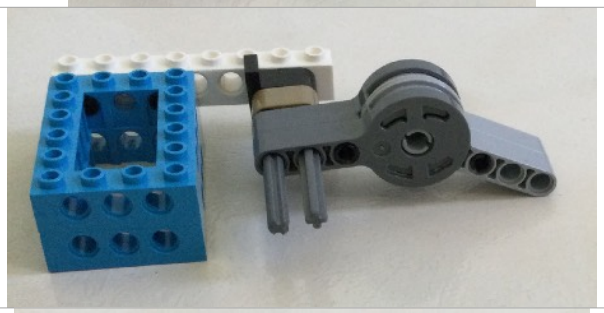




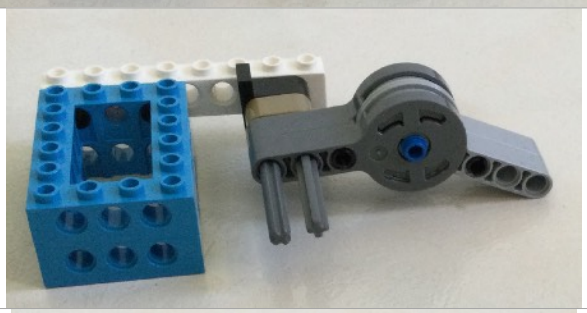


Add 2 black technic pins

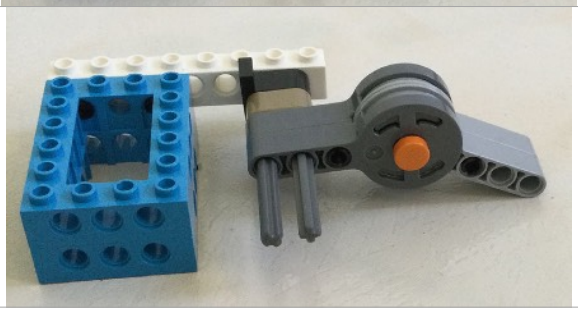


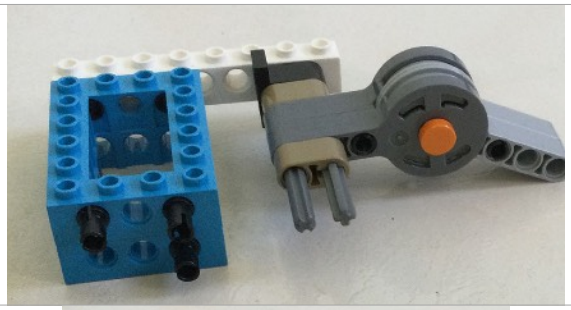
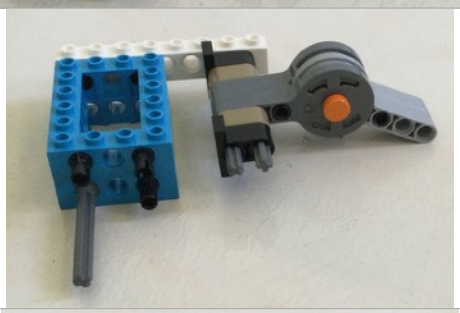
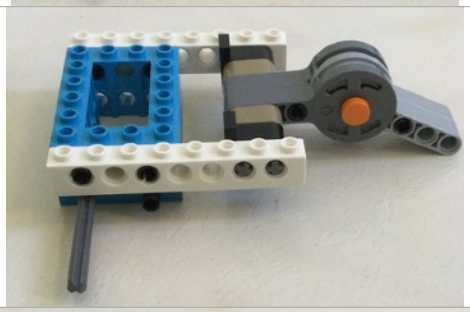
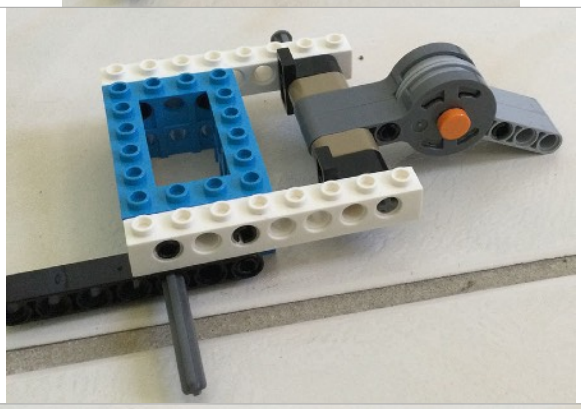
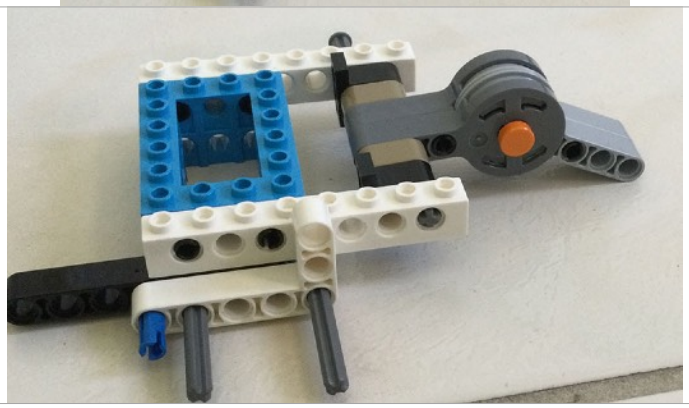


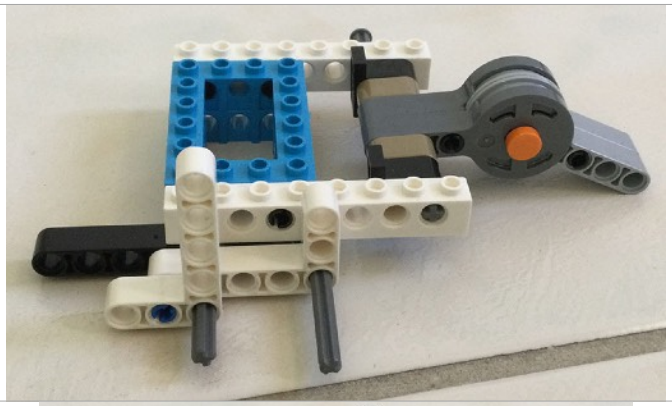
Add blue technic pins
on both sides

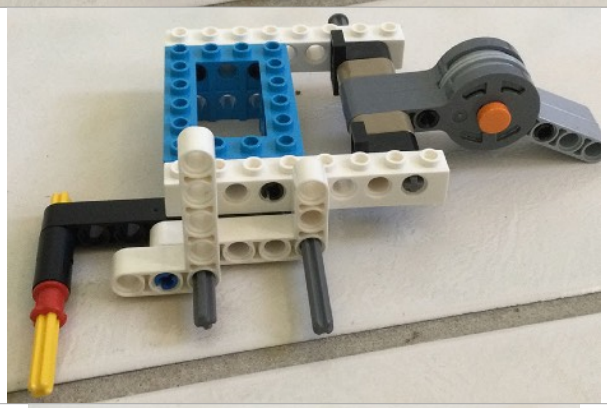


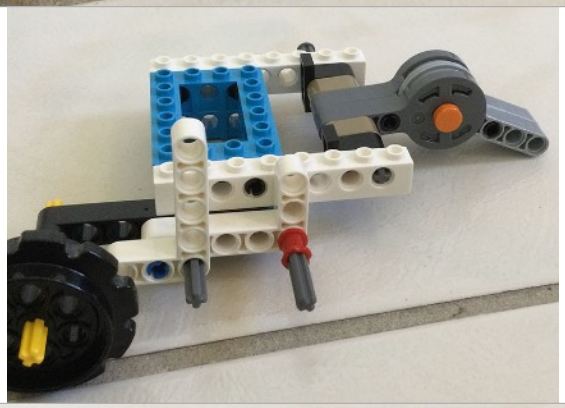
Add orange 1x1 caps
on both sides

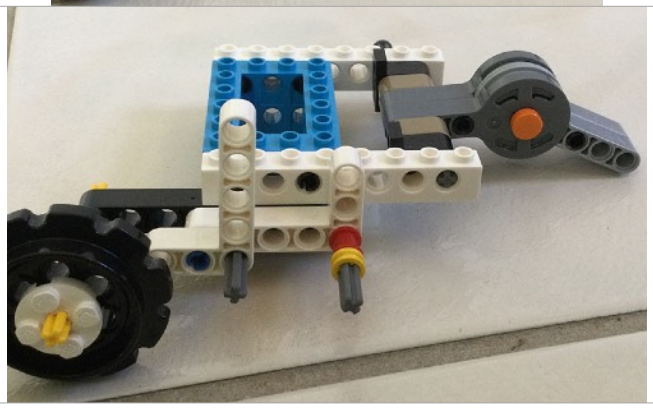


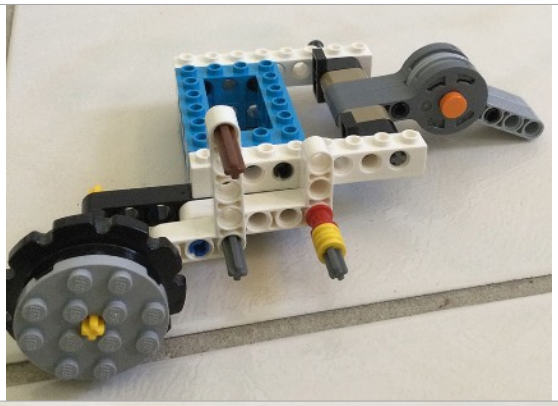
Add 3 black technic pins	
Add axle	
	
	
Now, we start building the left crawler tracks.	

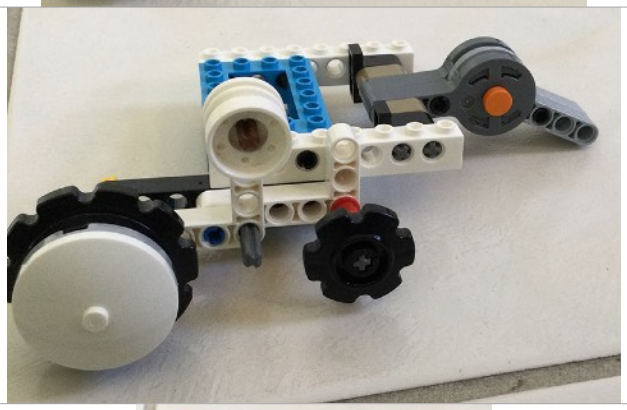




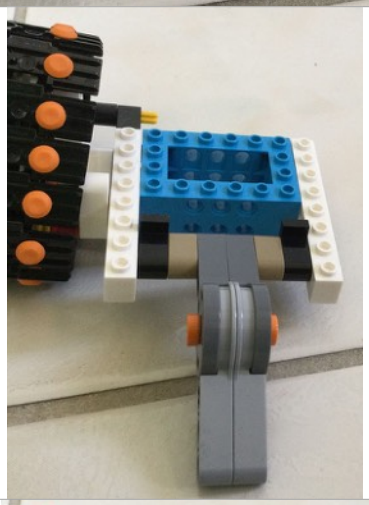




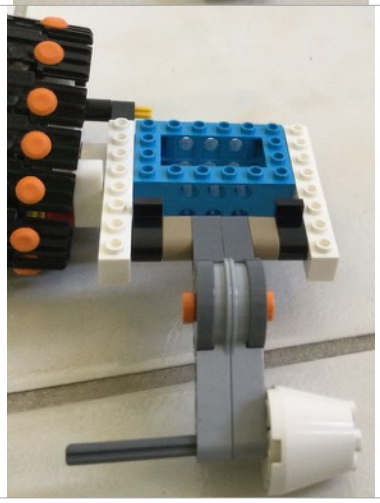




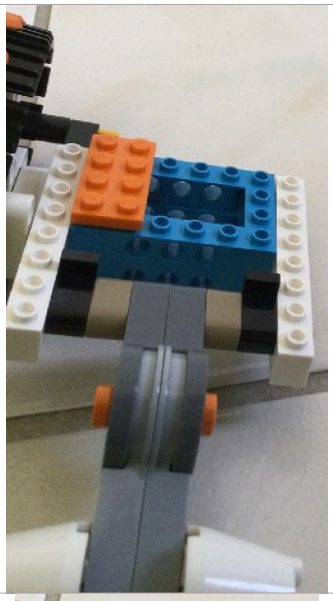
Use 19 tread pieces
for the left side



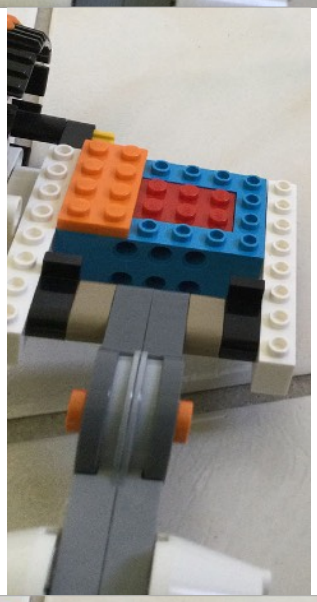
Build right wheel for the stand

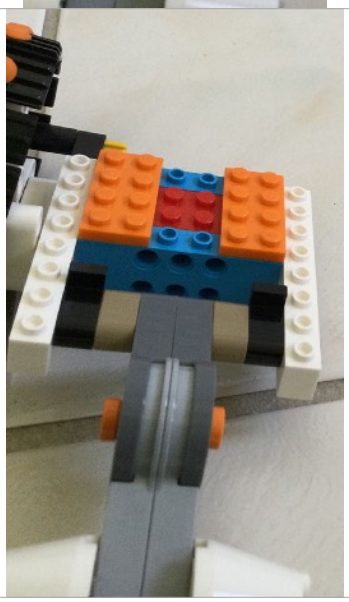


Add left wheel for the stand, plus orange 2x4 plate

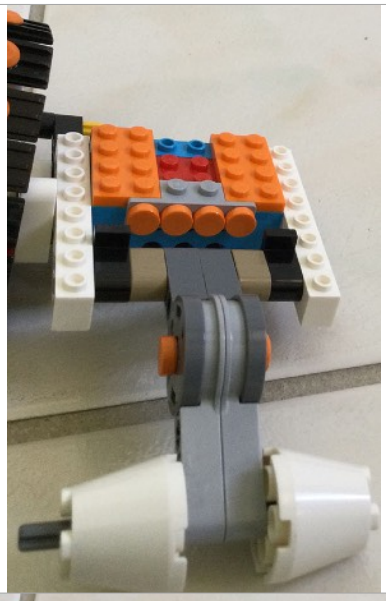


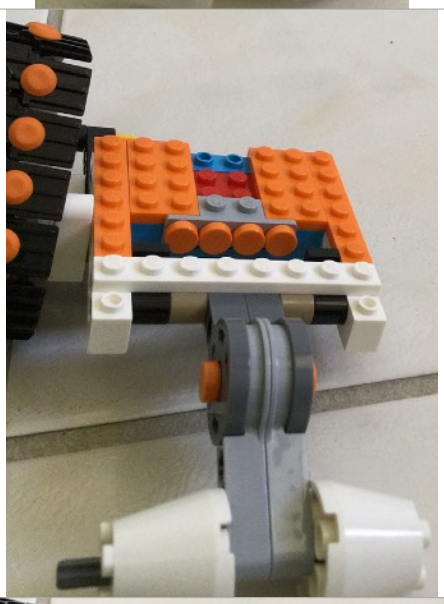
Slide in red 2x4 brick from the back

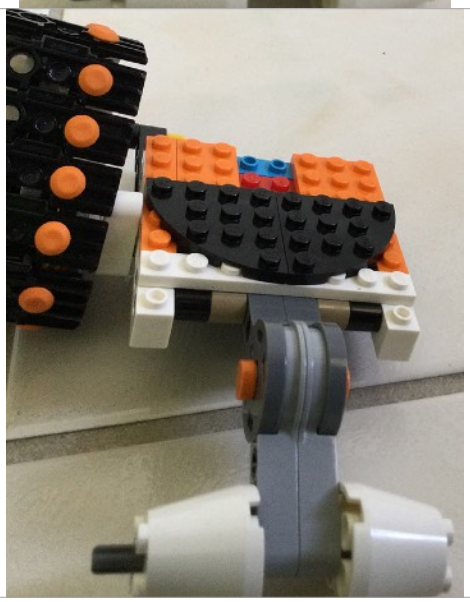


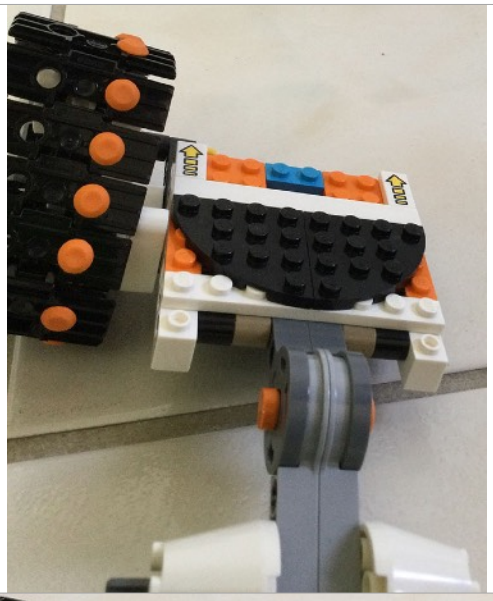


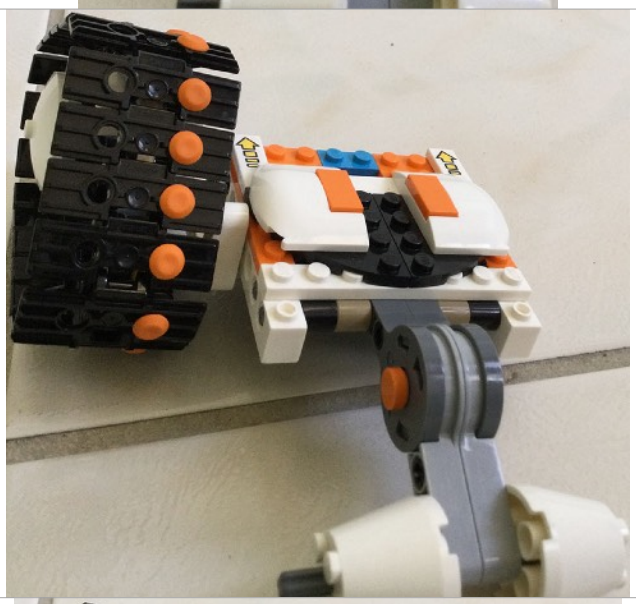
Adding details for the back of the stand

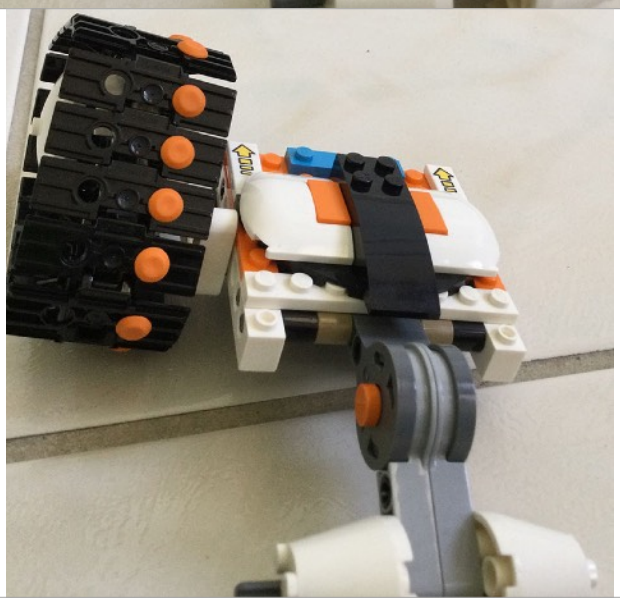




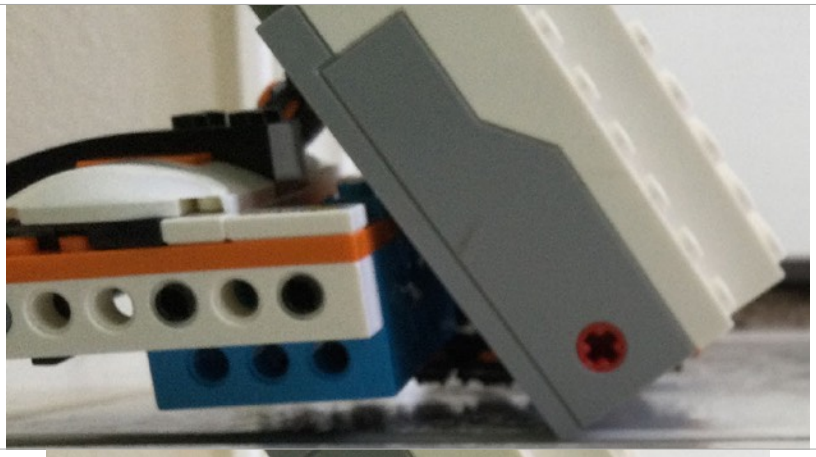






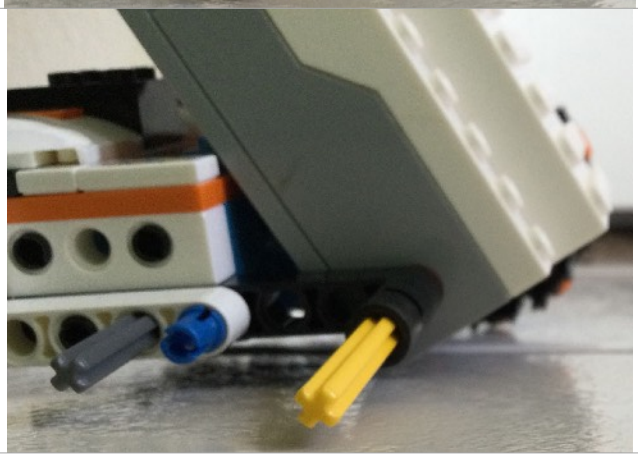


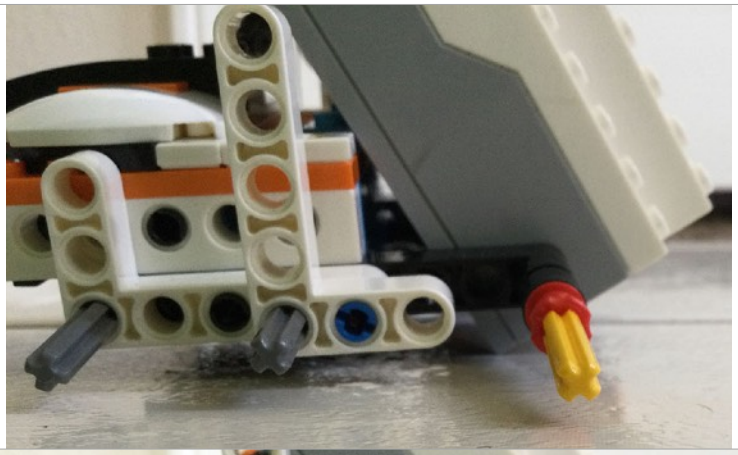
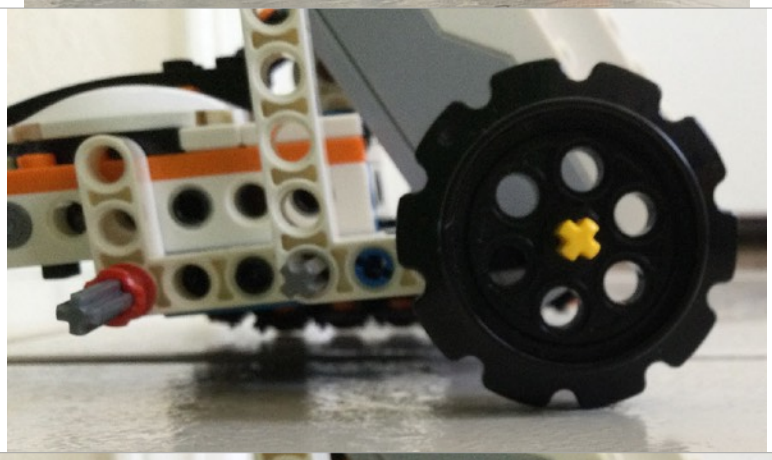
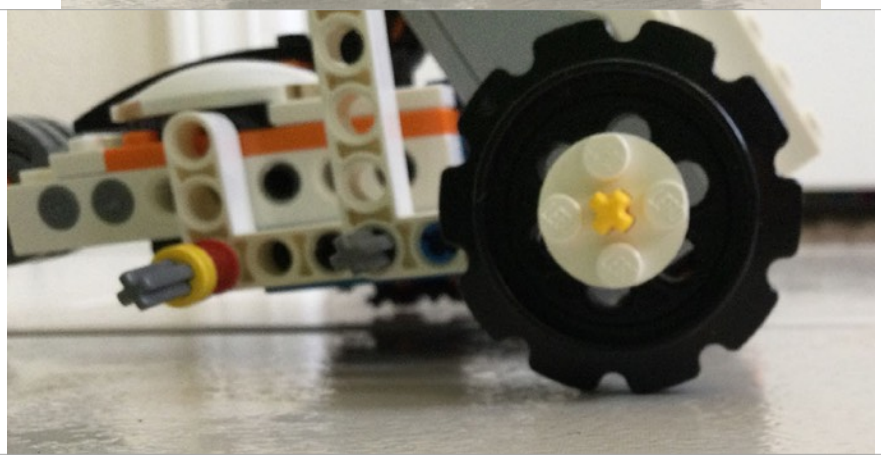
Move hub connects to yellow axle on the left side.

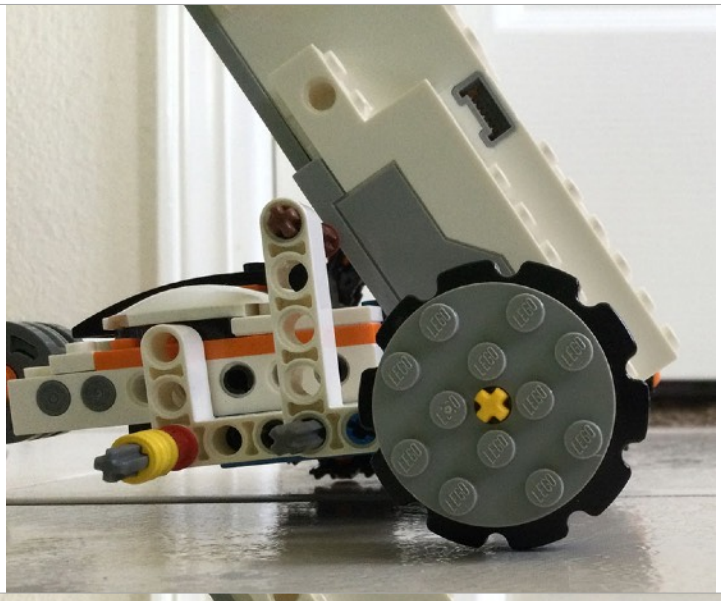


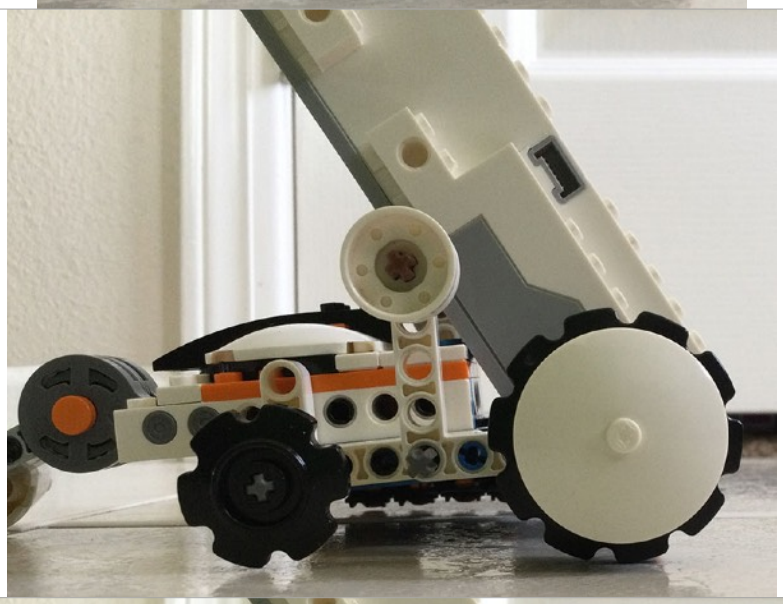
Add in axles and pin on right side

Add white technic bar over axles

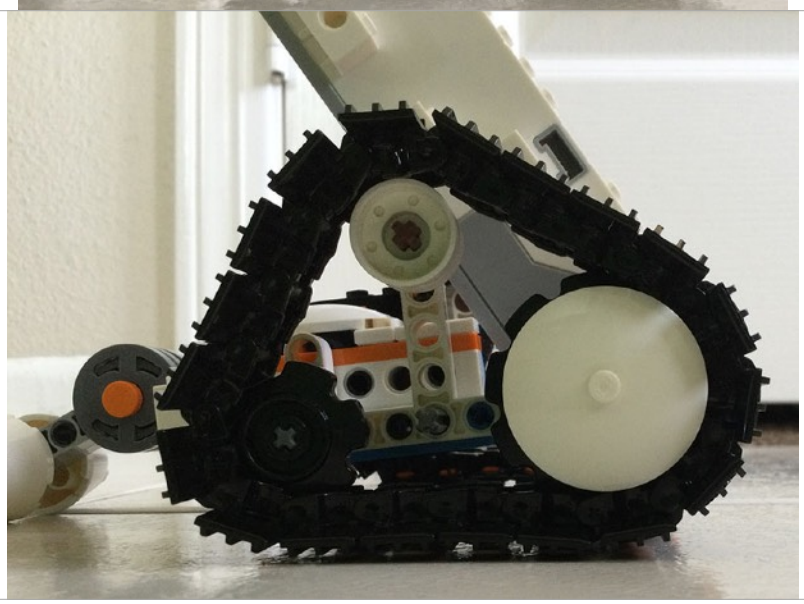


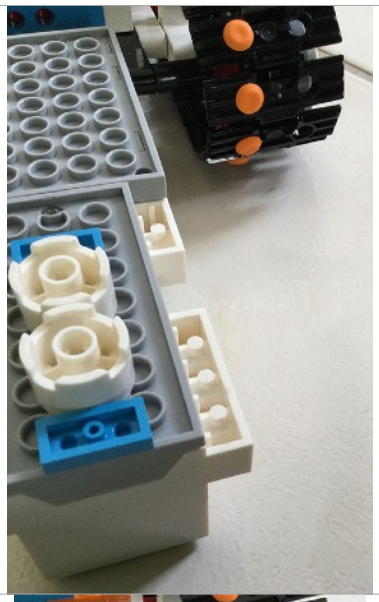
Continue building technic frame for right crawler track		
		
		

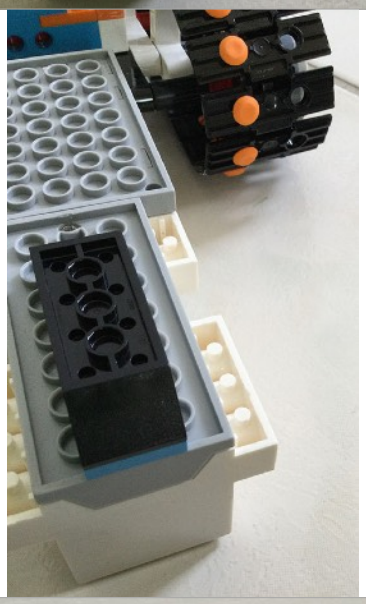


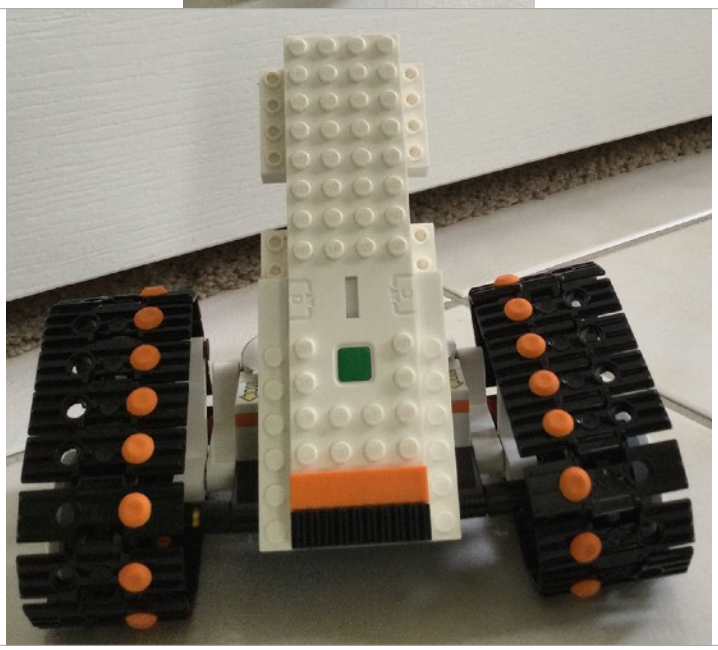


Use 19 tread pieces on right side

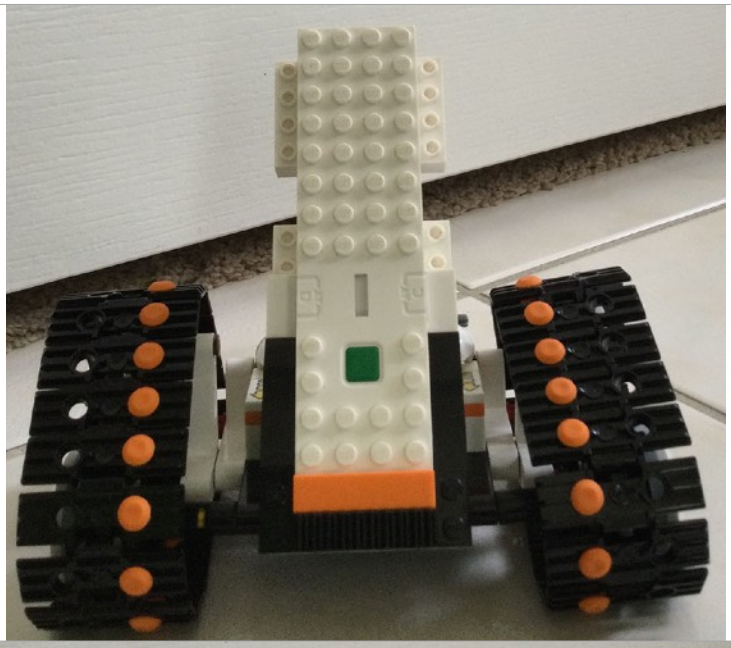




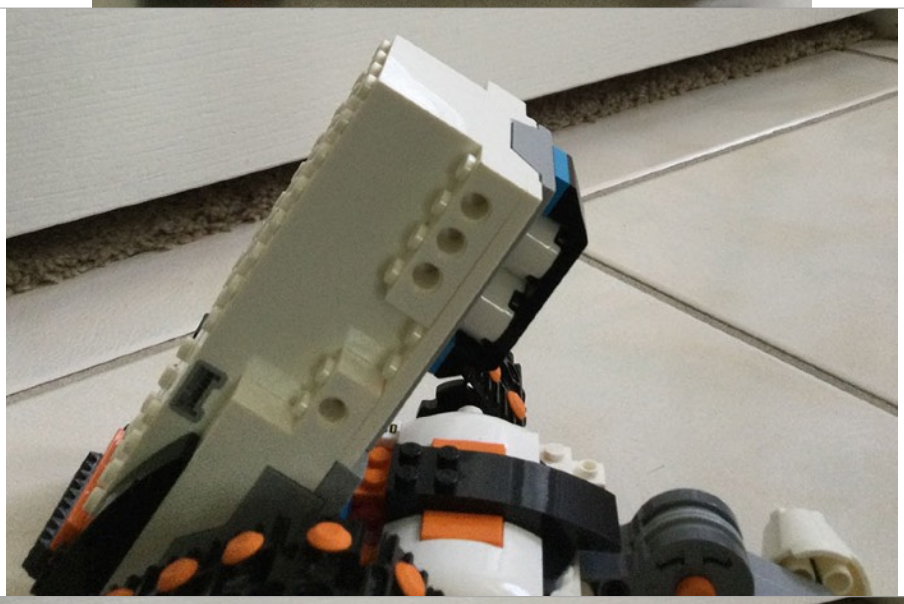


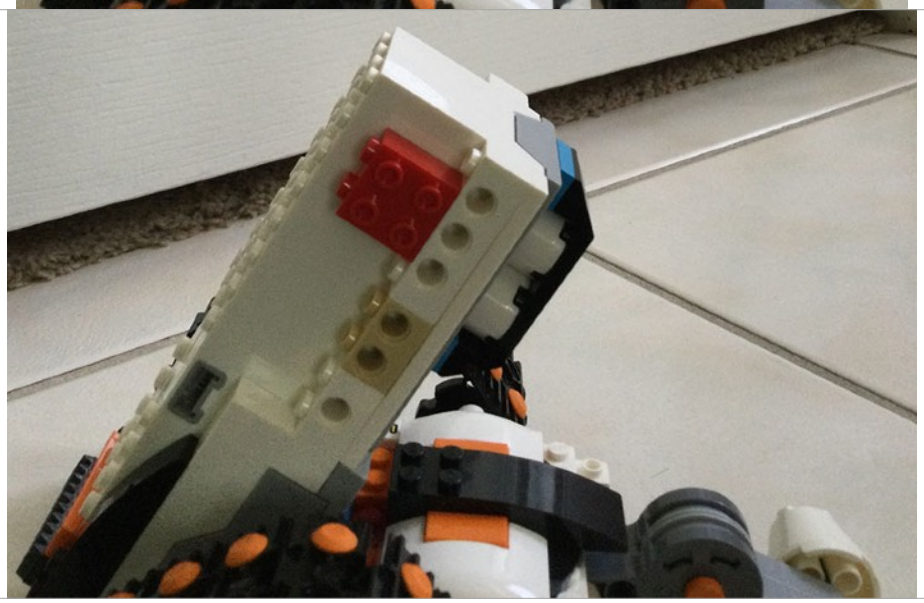


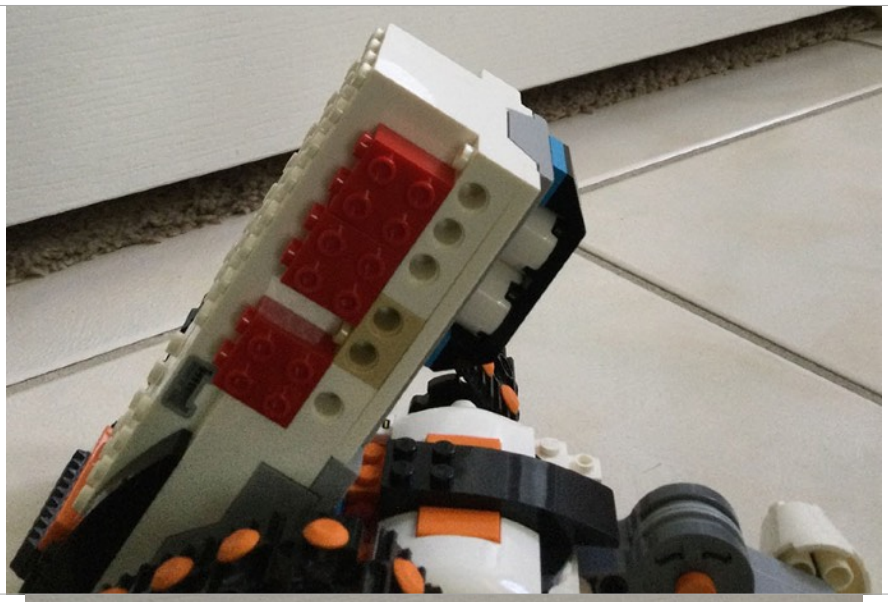
Add black 1x6 curved bricks

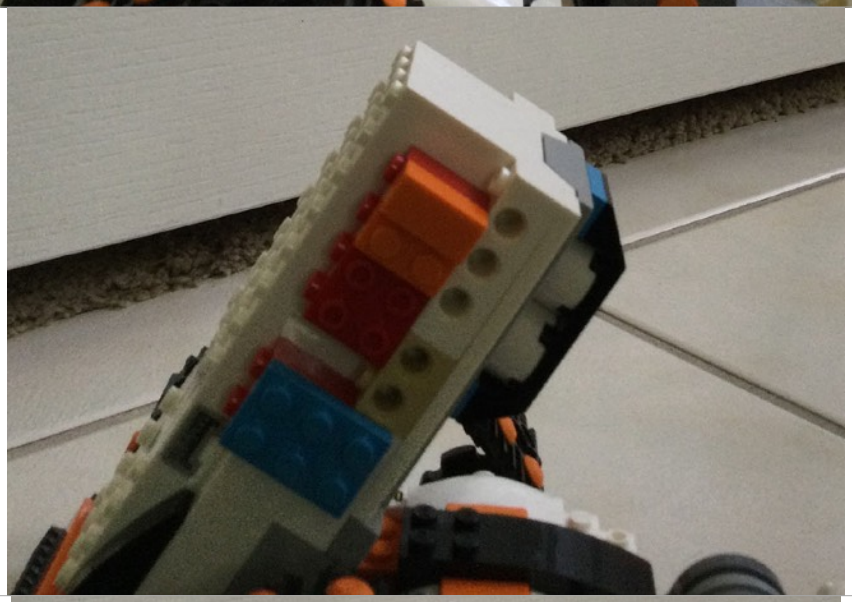


Add 1x8 white plate under the side of move hub

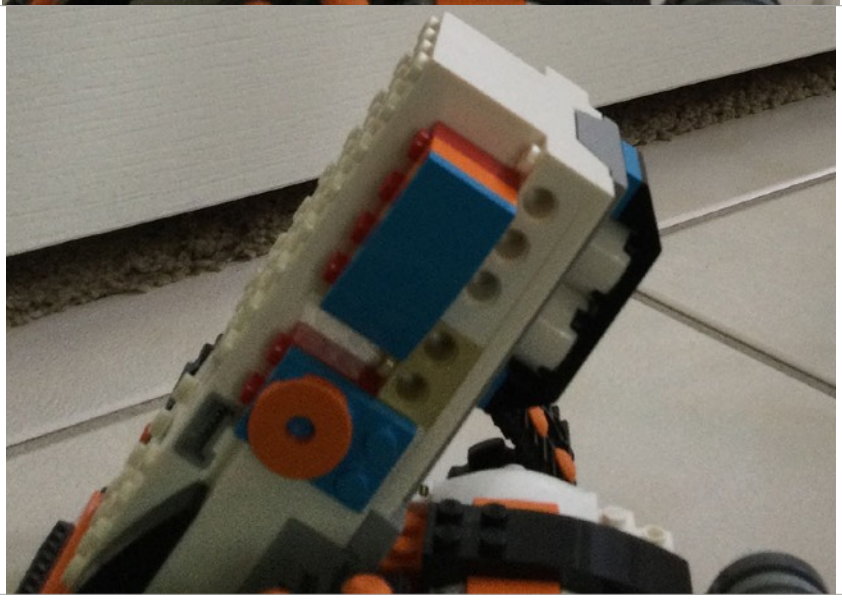


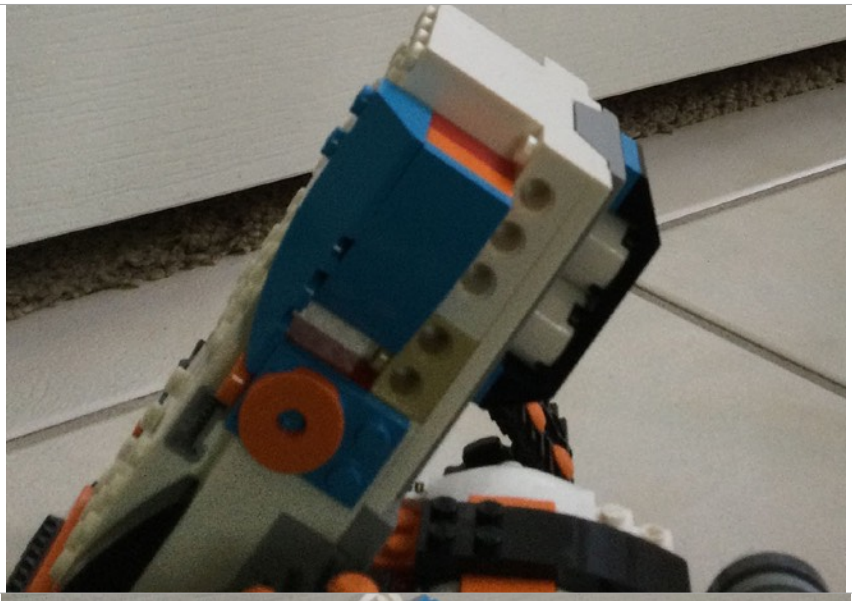




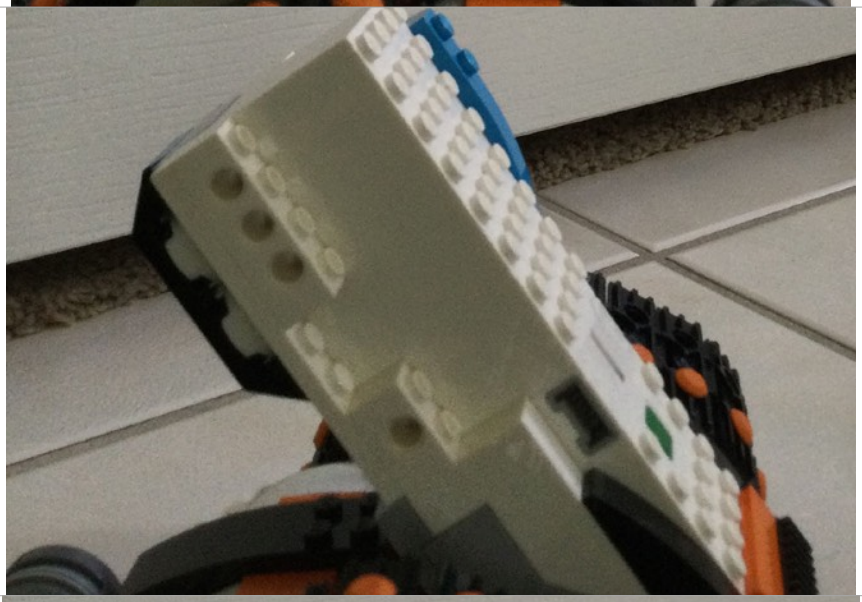


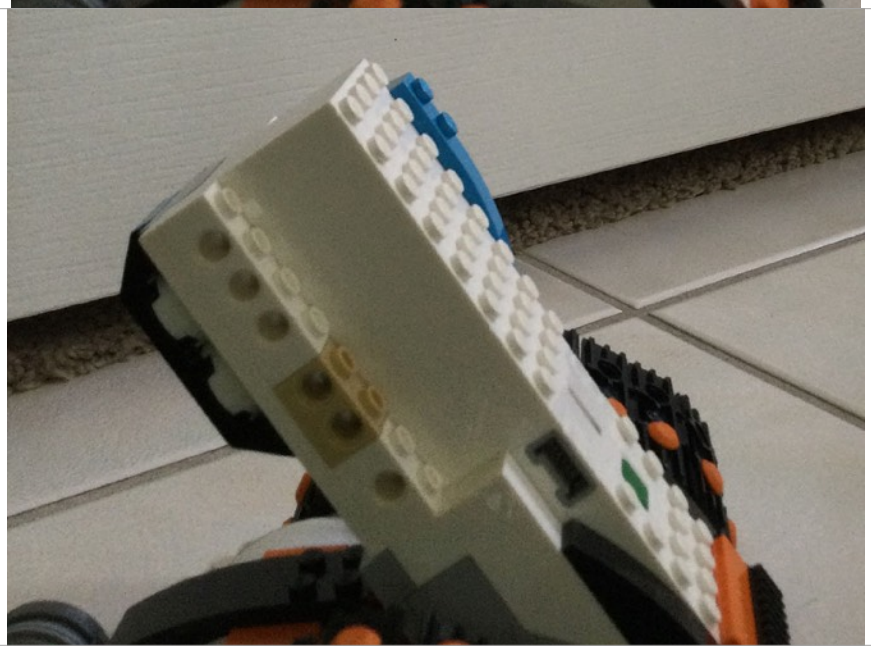
Adding details on the left side

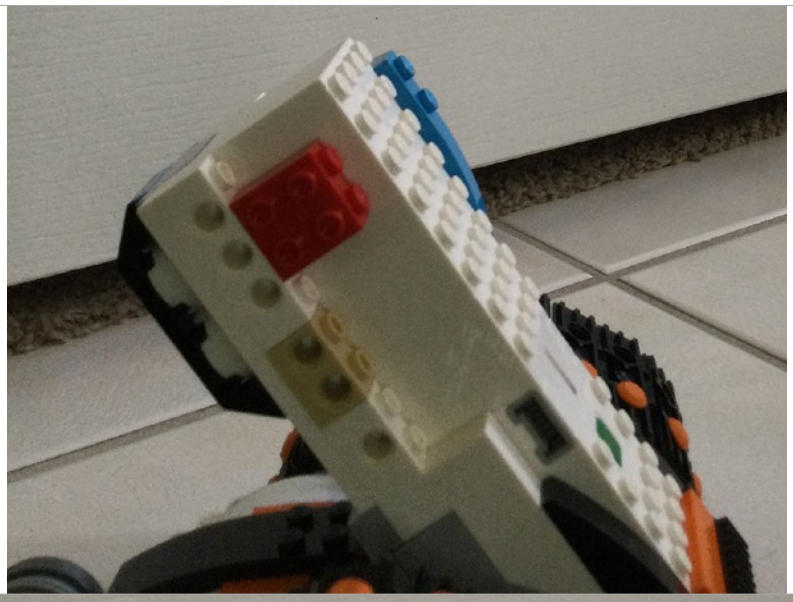


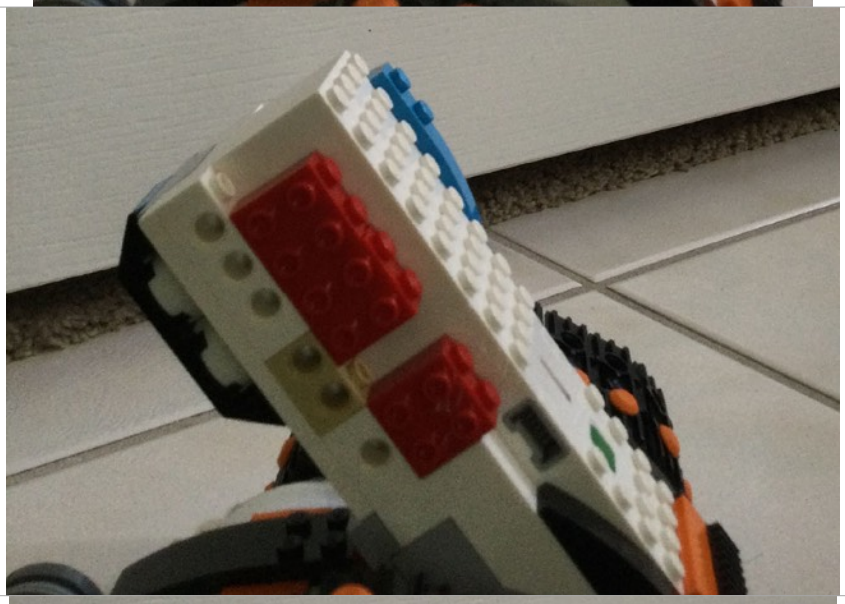


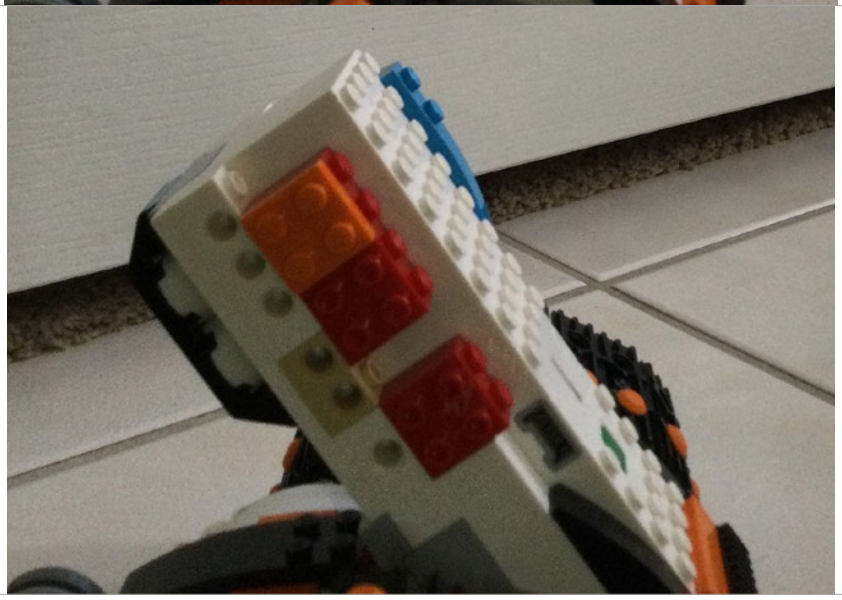
Repeat same steps on right side

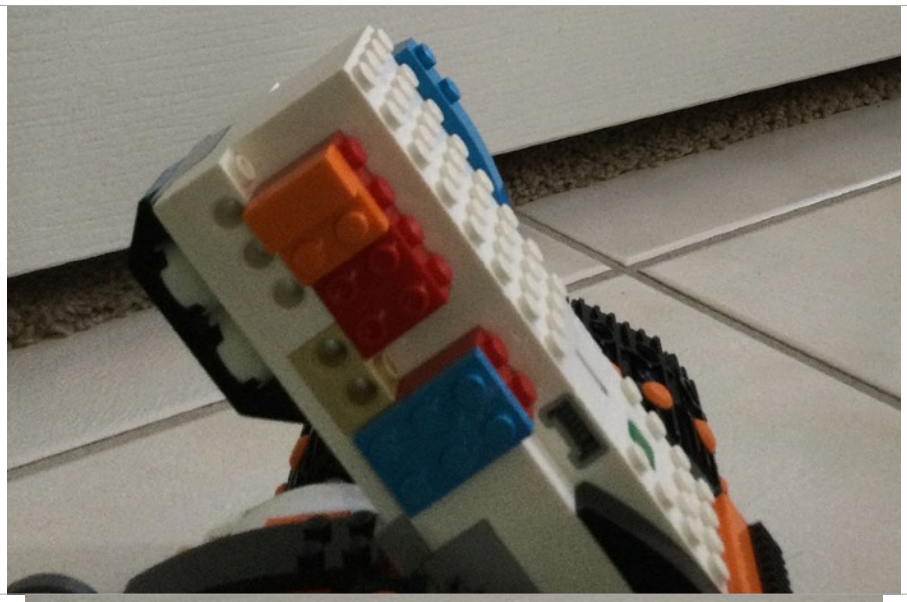


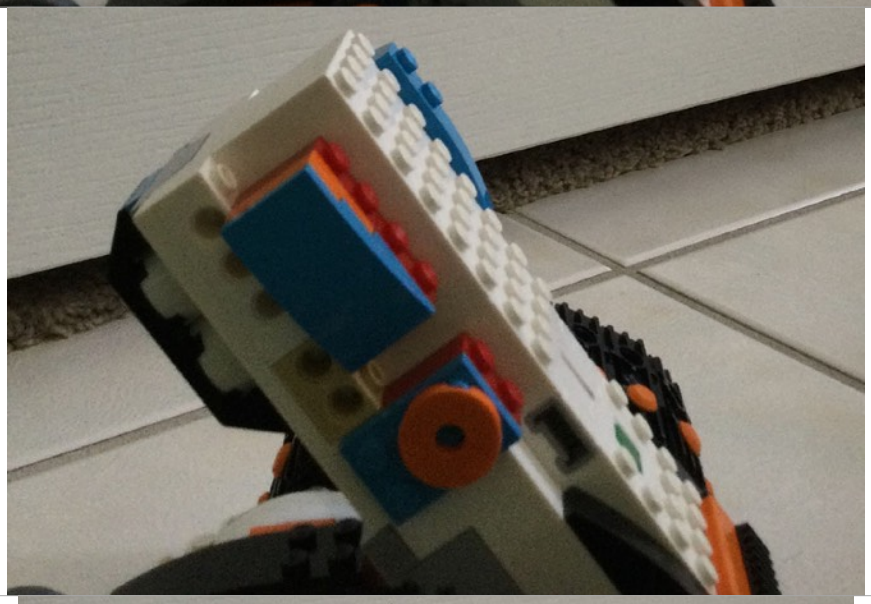


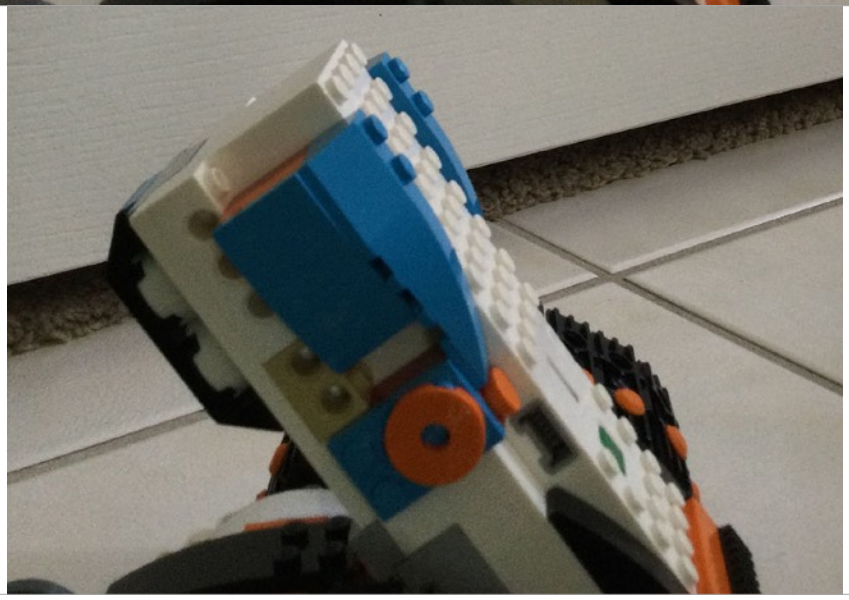




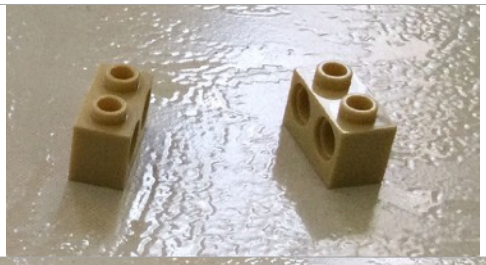


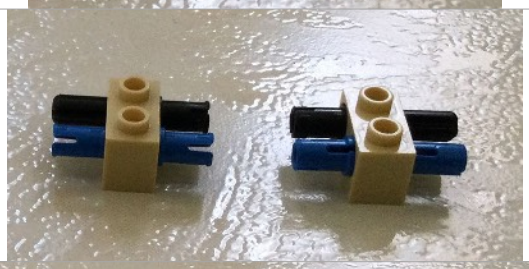


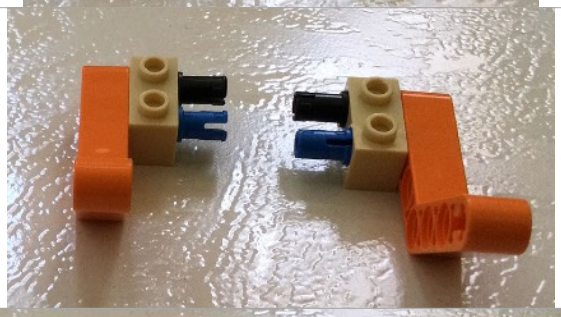


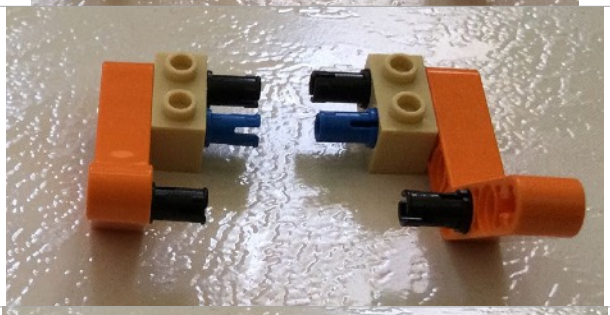


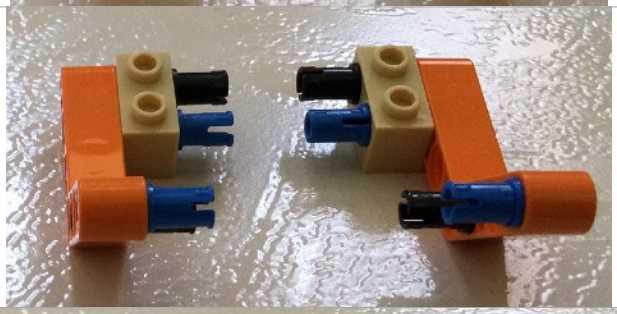
Now, build the upper body…

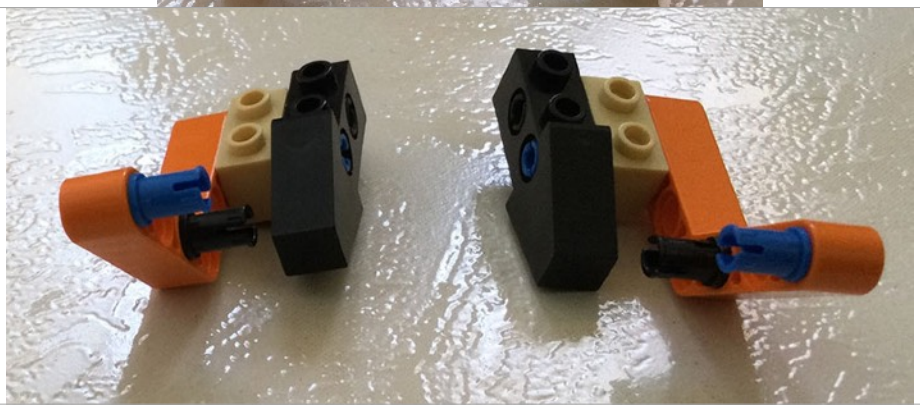




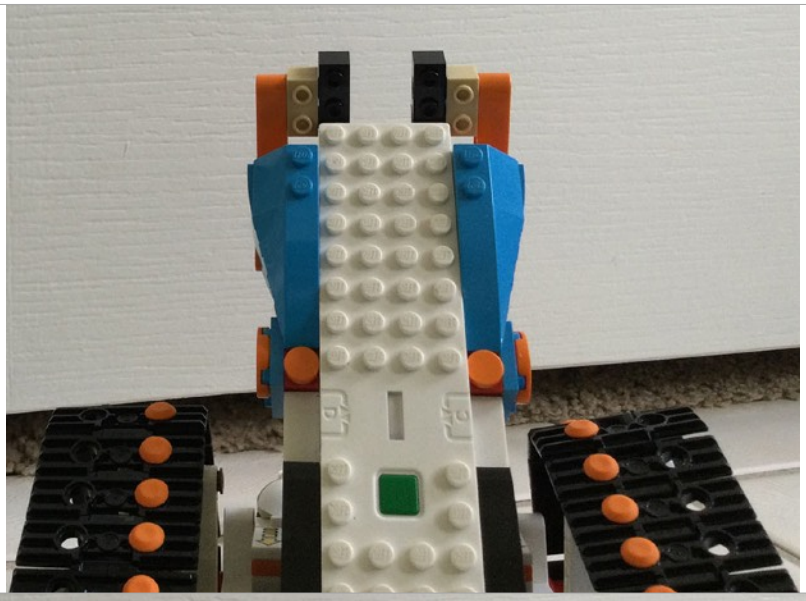


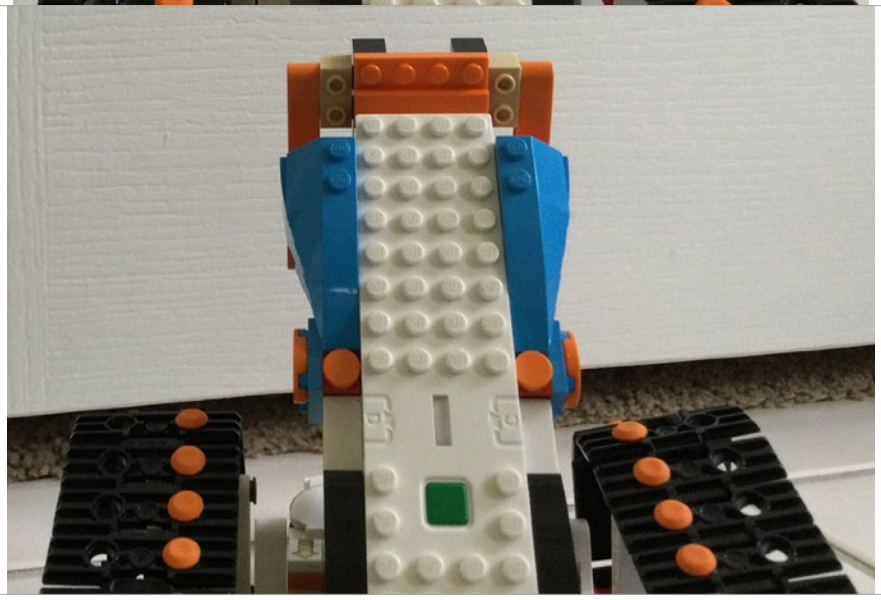




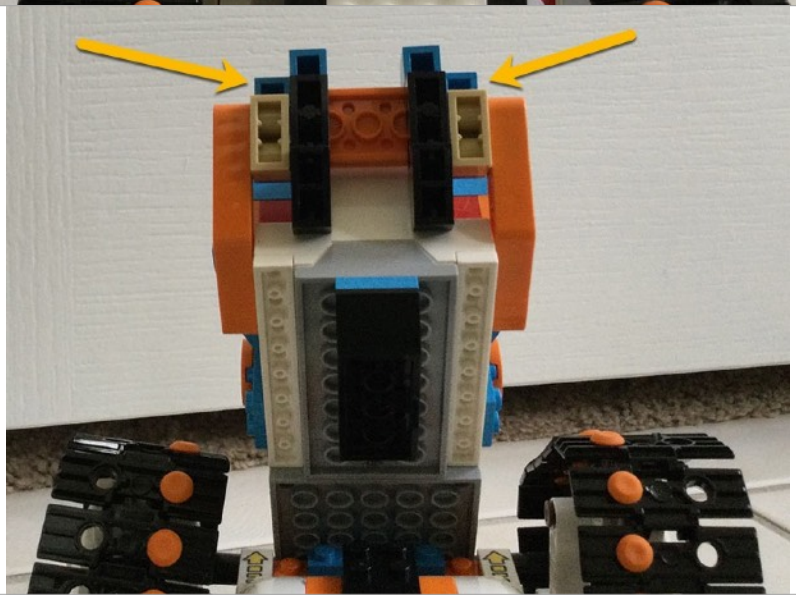


Attach orange technic beams to side of move hub using pins.

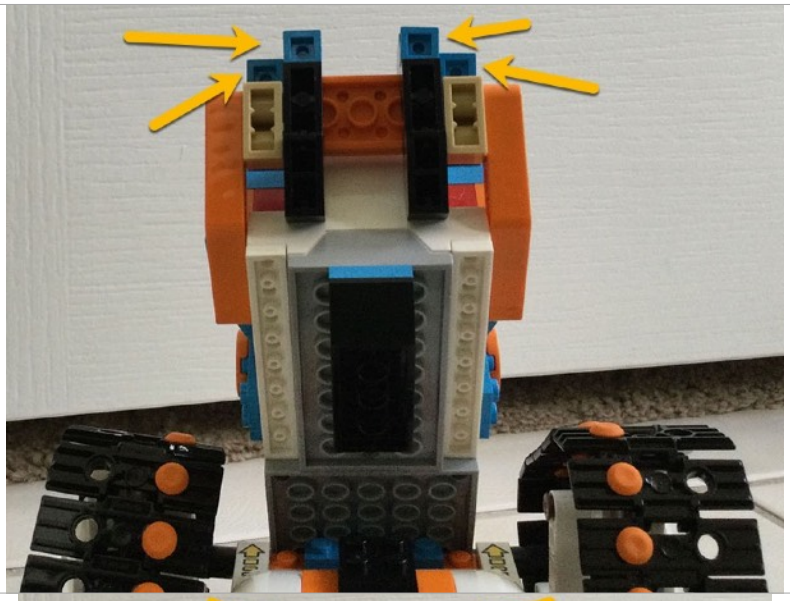




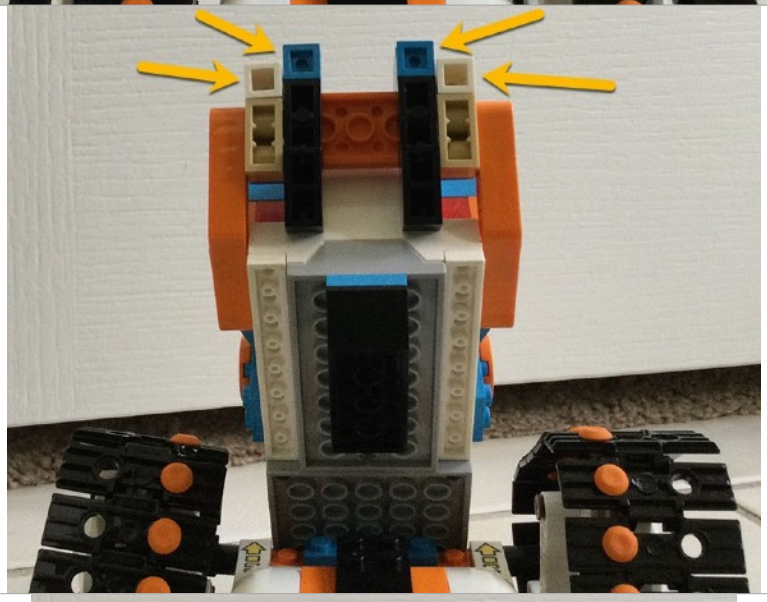
Turn it around. Add two blue 1x3 curved slope pieces with cutouts.



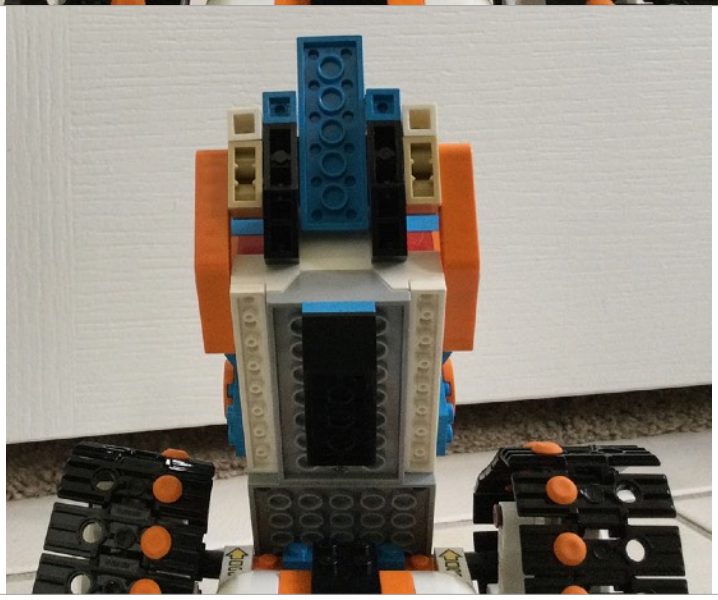
Add 4 blue 1x1 plates



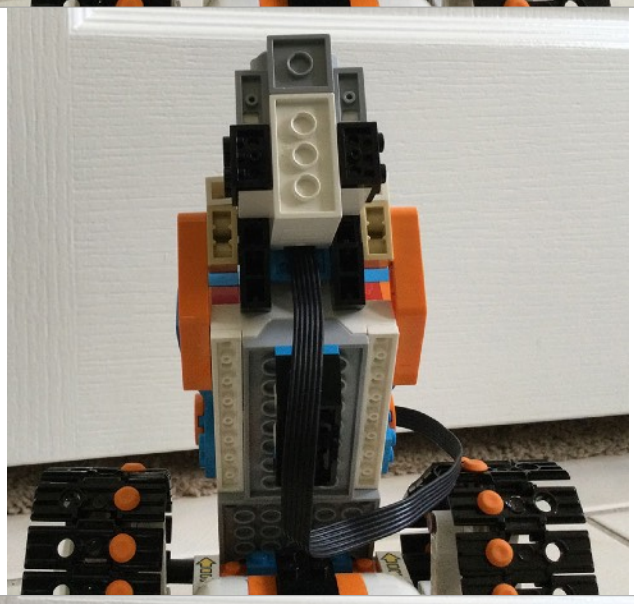
Add 2 blue 1x1 plates and 2 white 1x1 bricks.

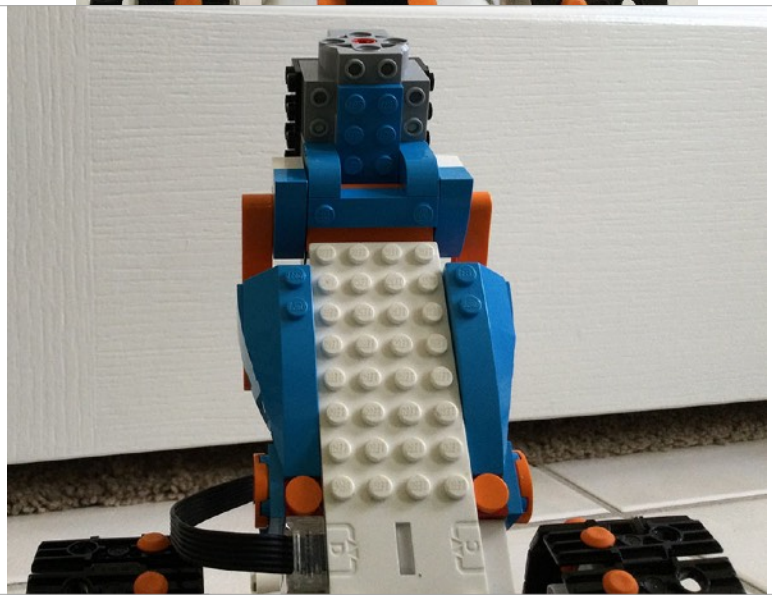


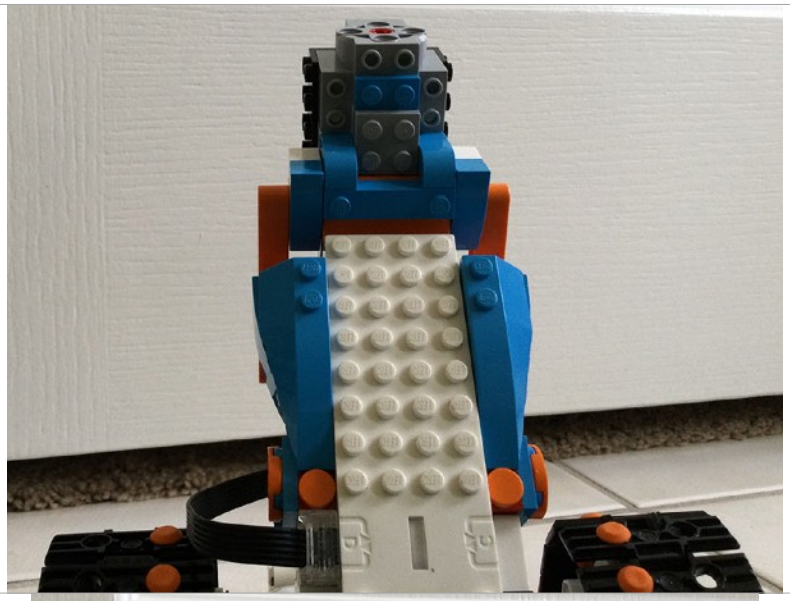
Blue 2x6 plate

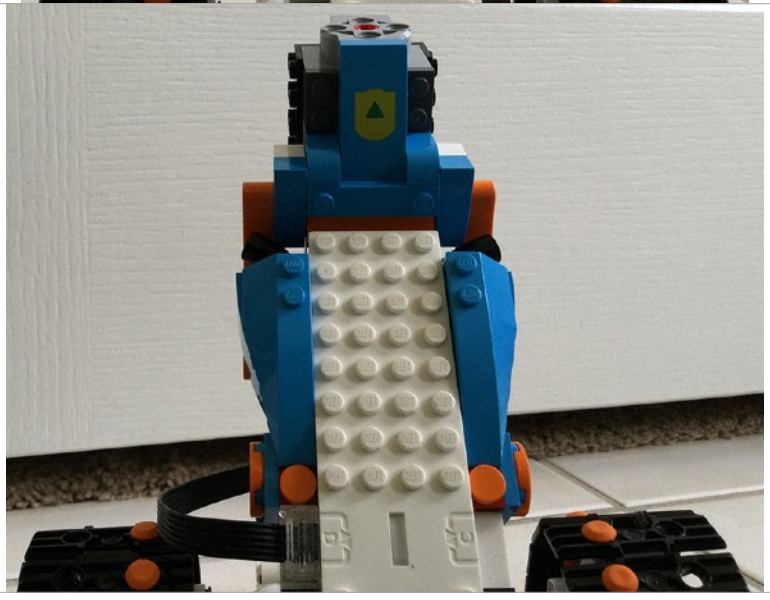


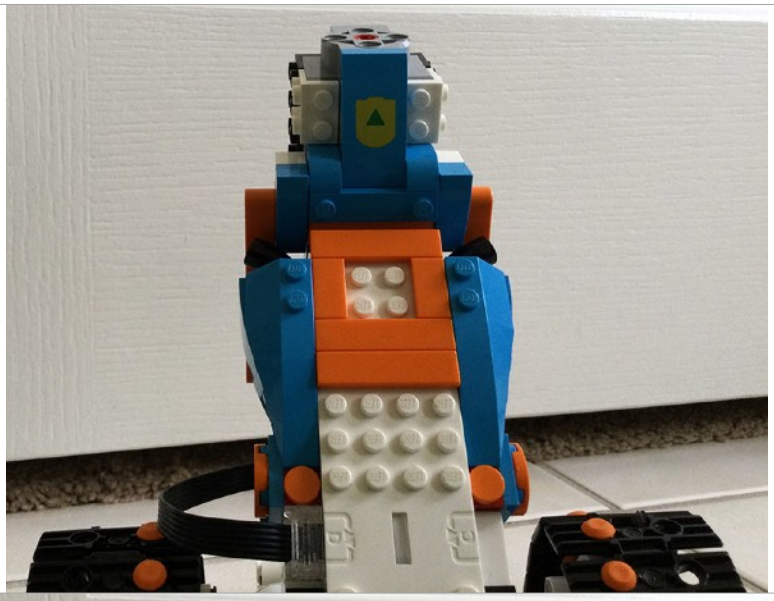
Connect the external motor.

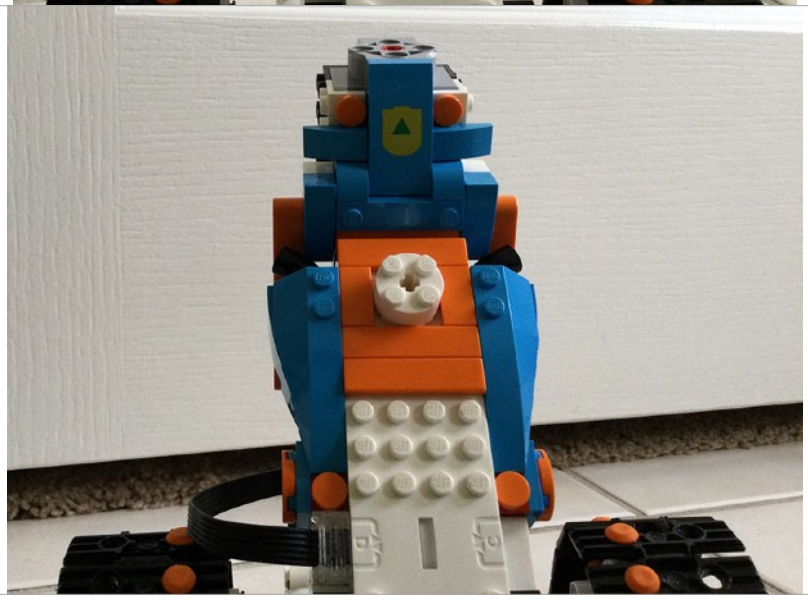


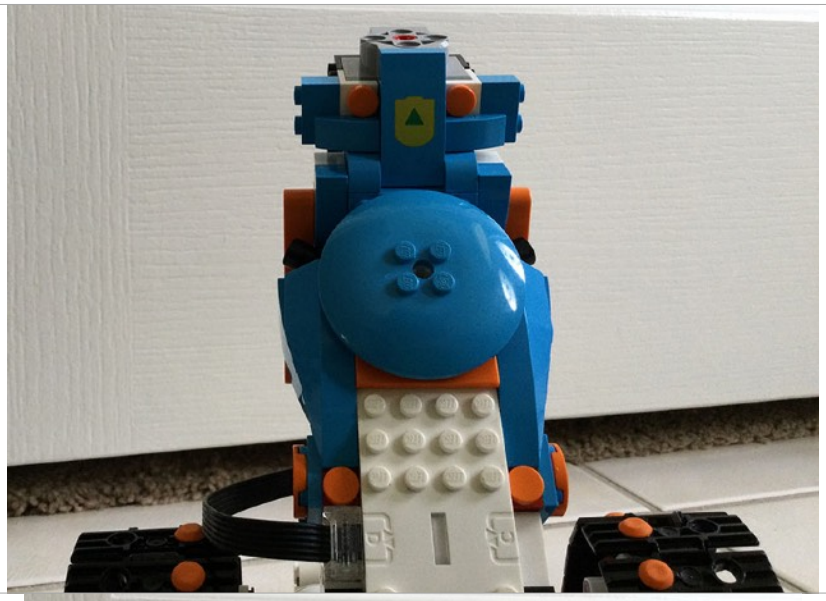




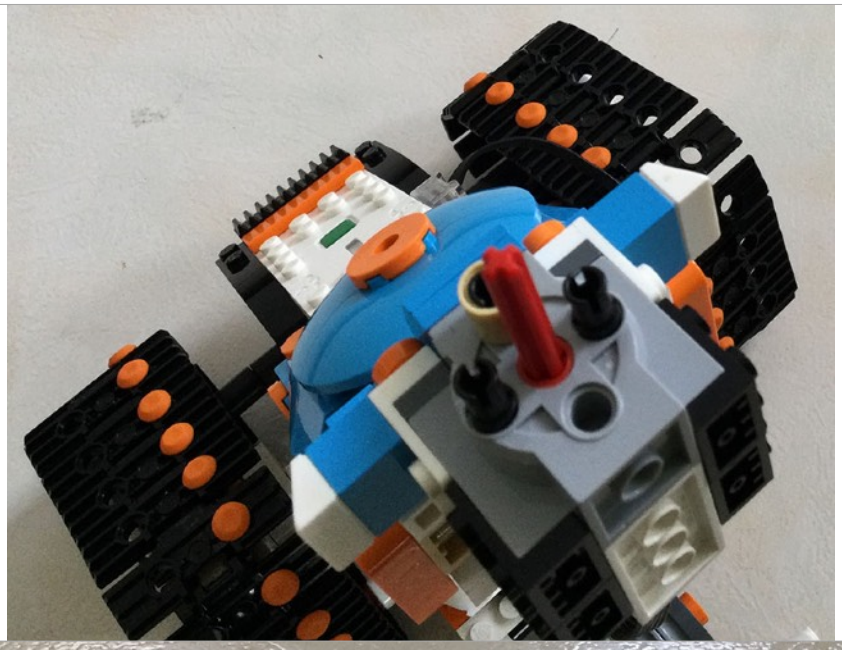




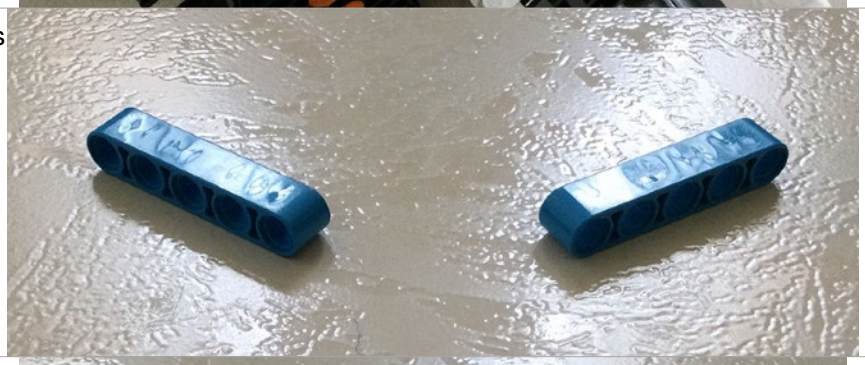


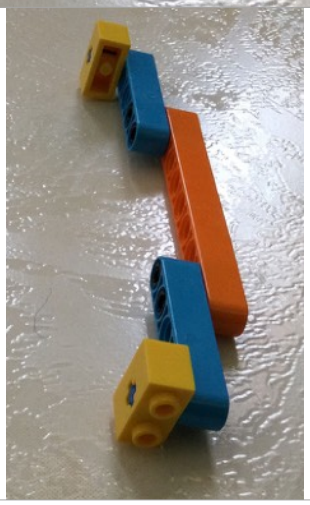


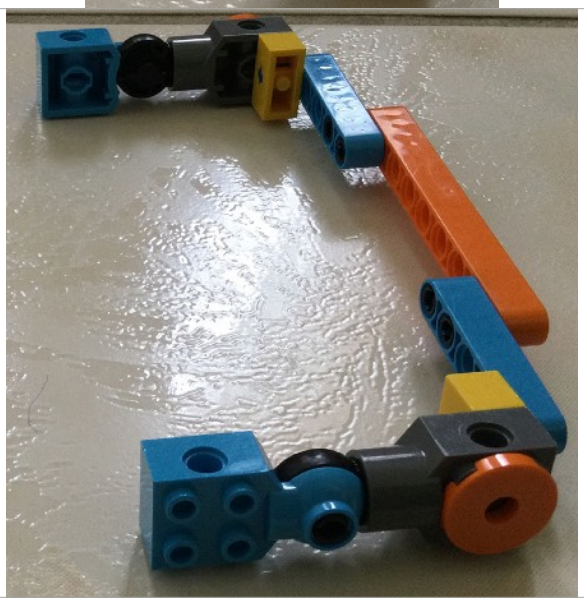
Add 3 black
technic pins to motor.

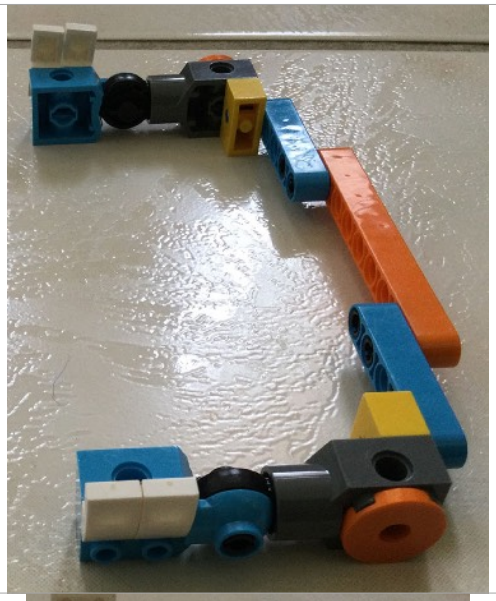


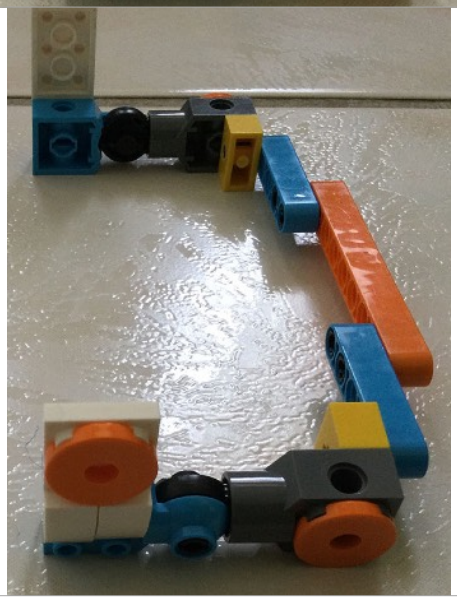
Build shoulders and arms.

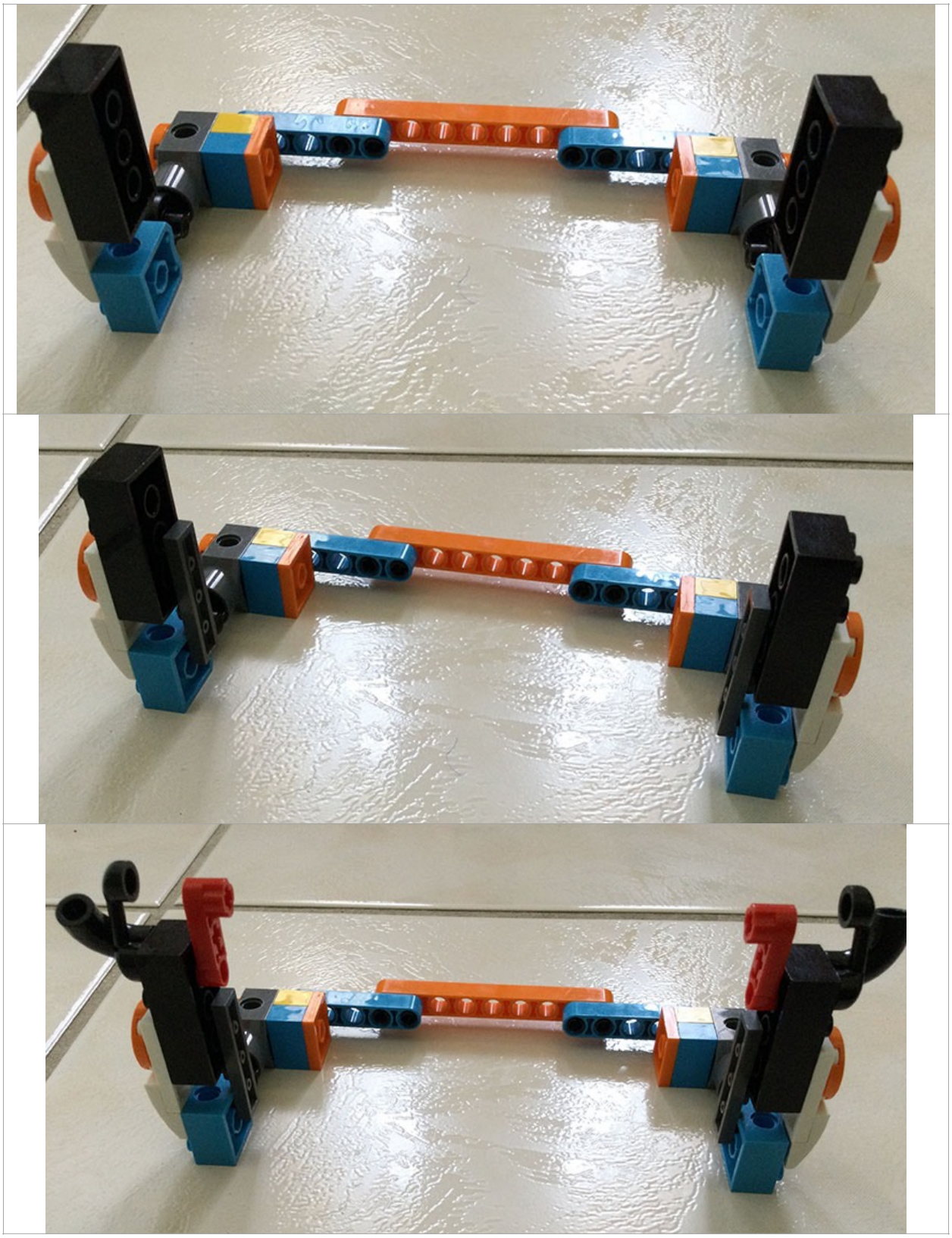




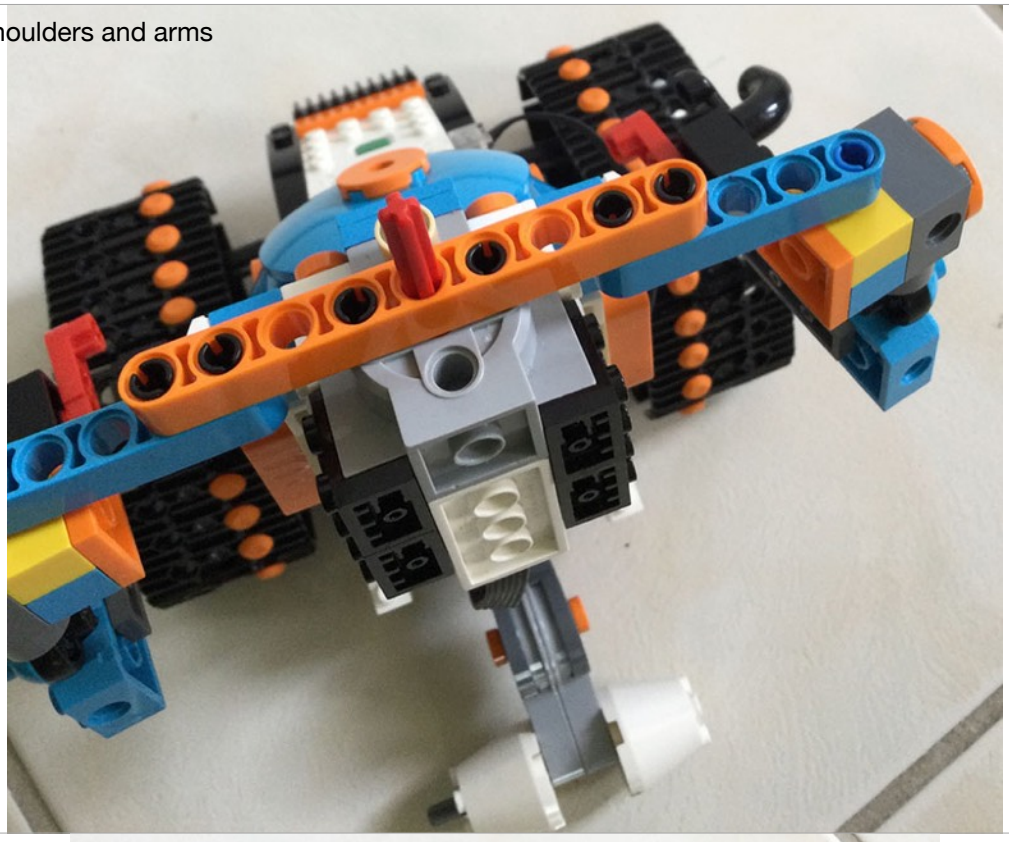


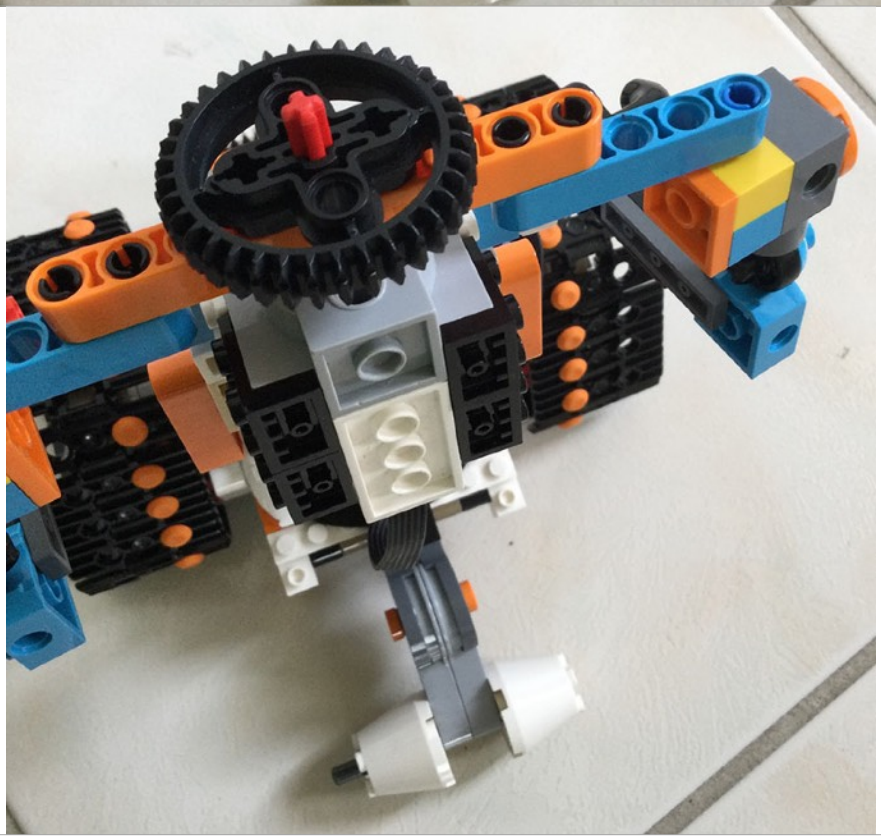




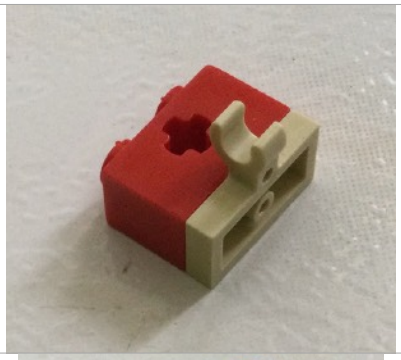


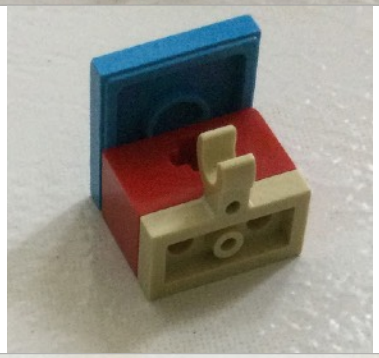
Attach shoulders and arms to motor.

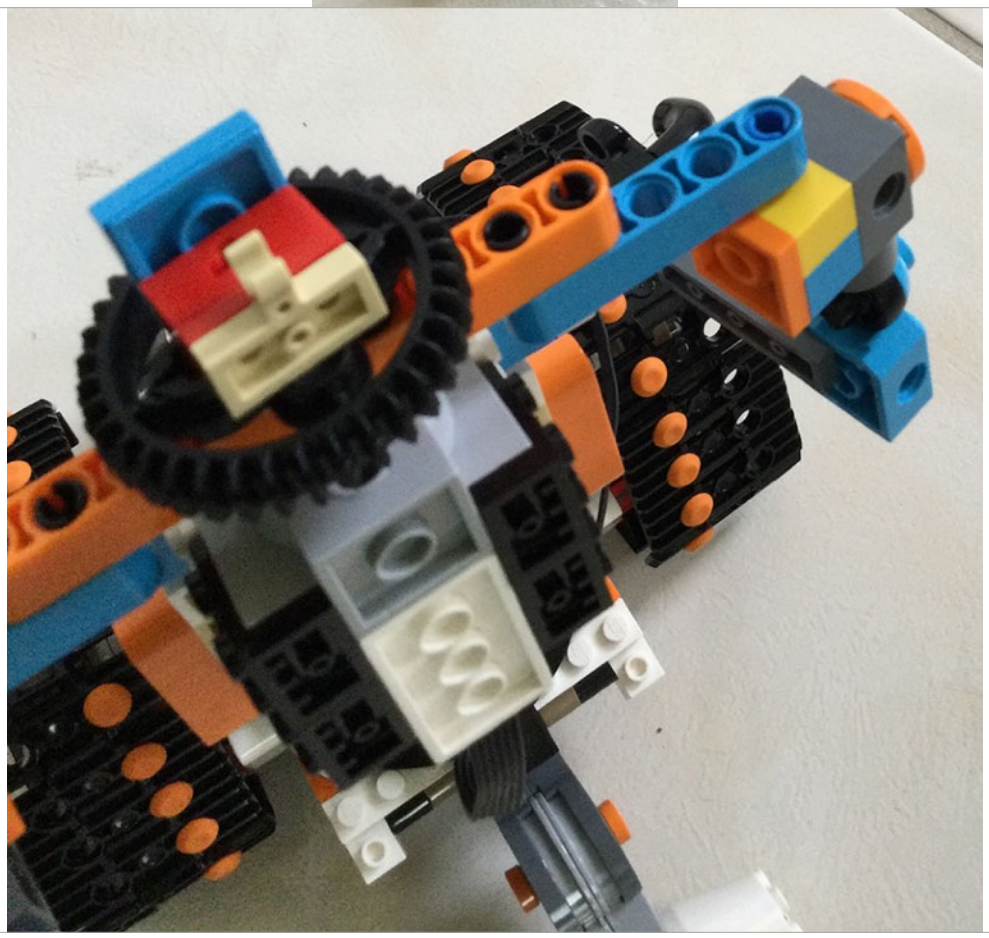




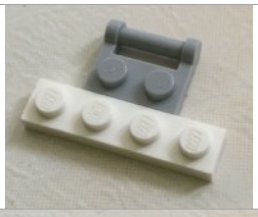
Build the neck

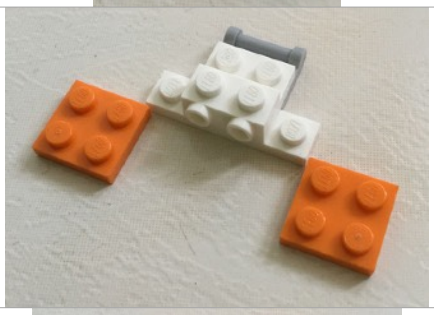


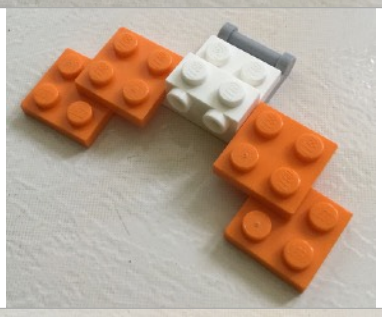


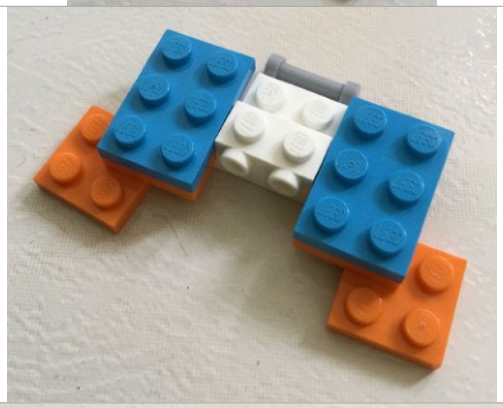


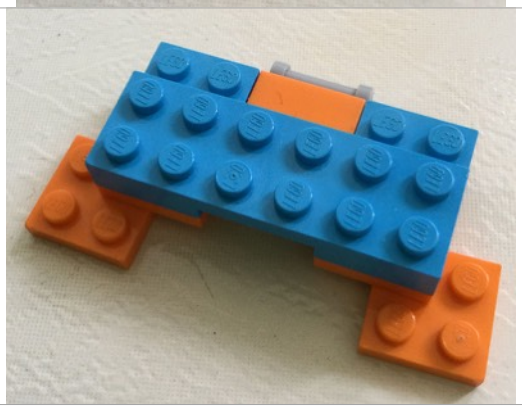
Build the head.

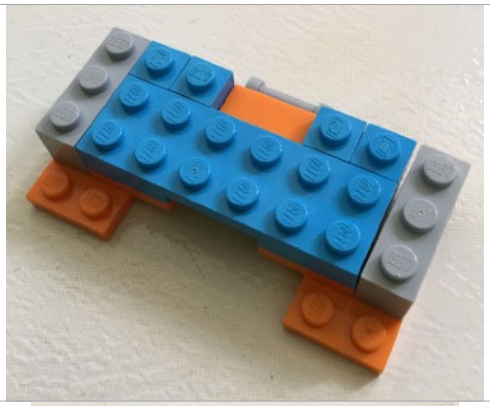


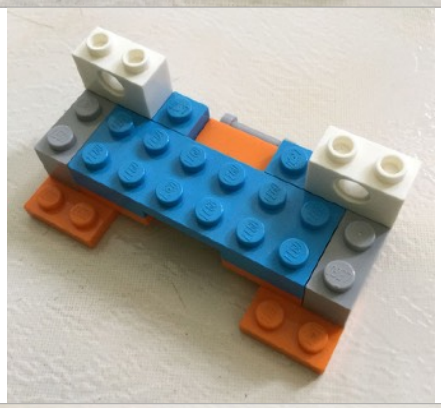


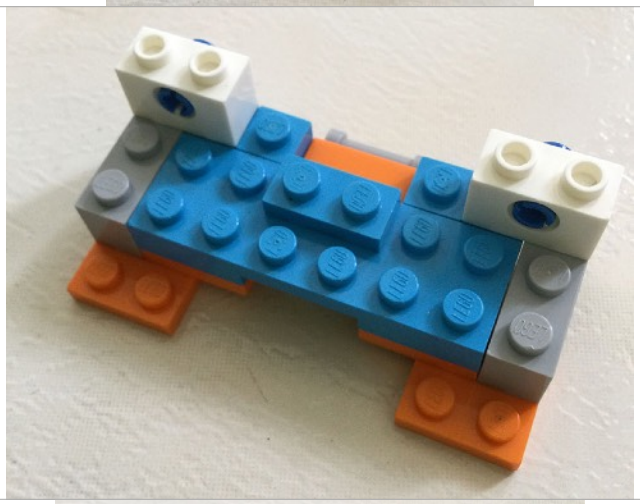


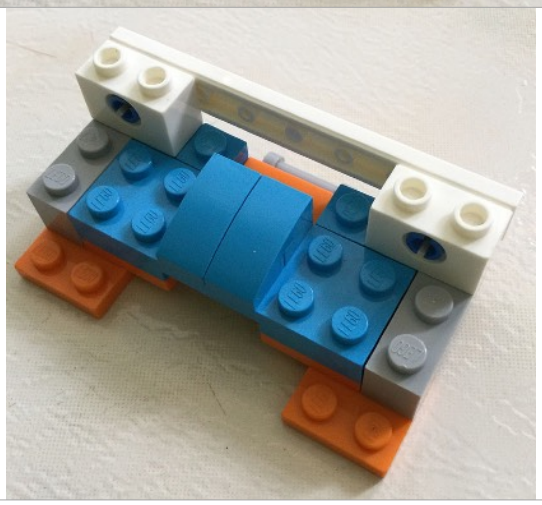


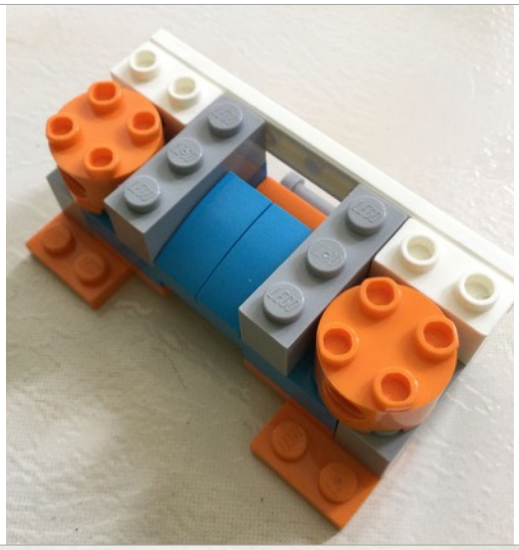


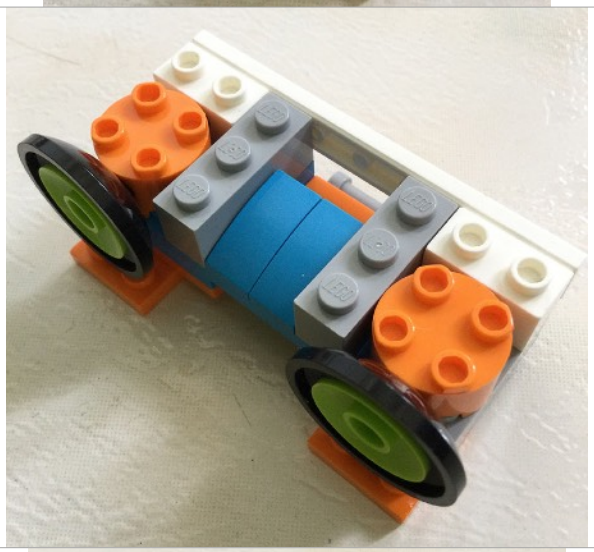


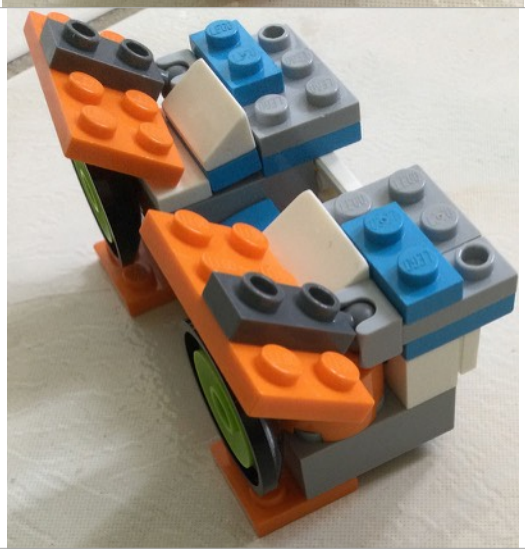




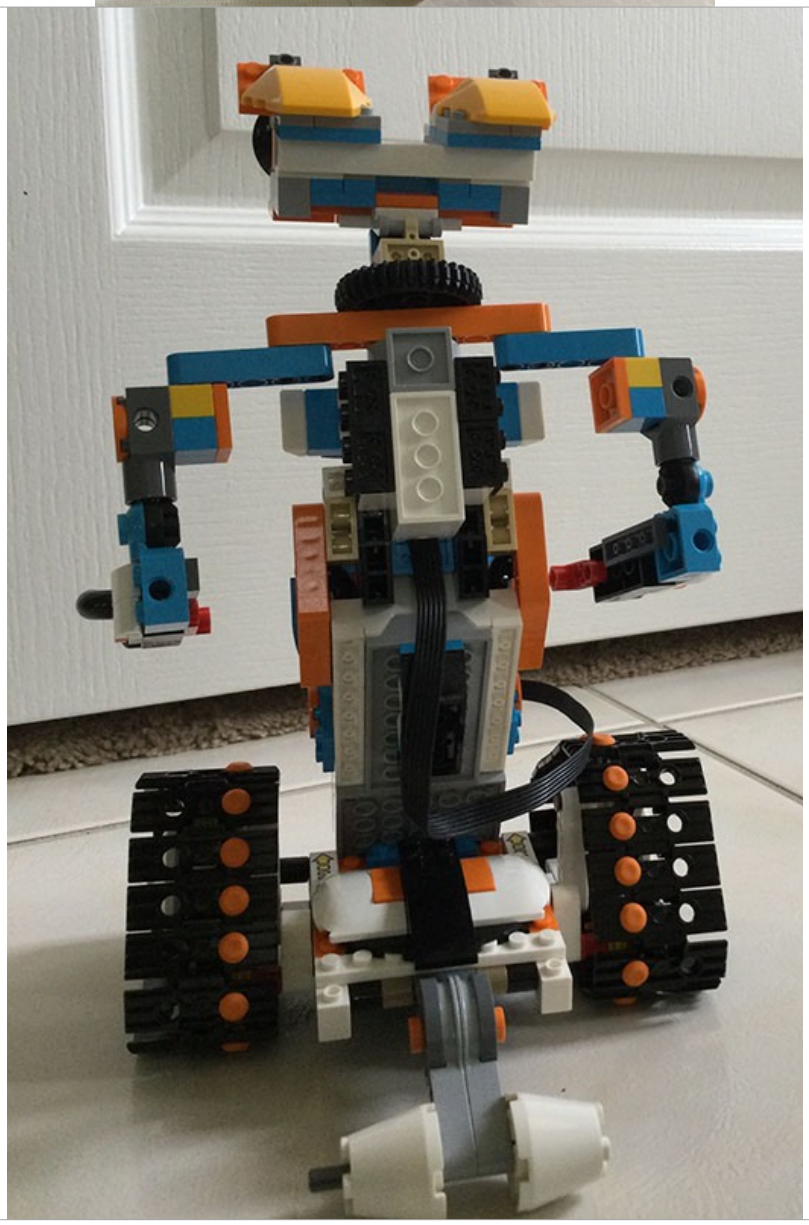


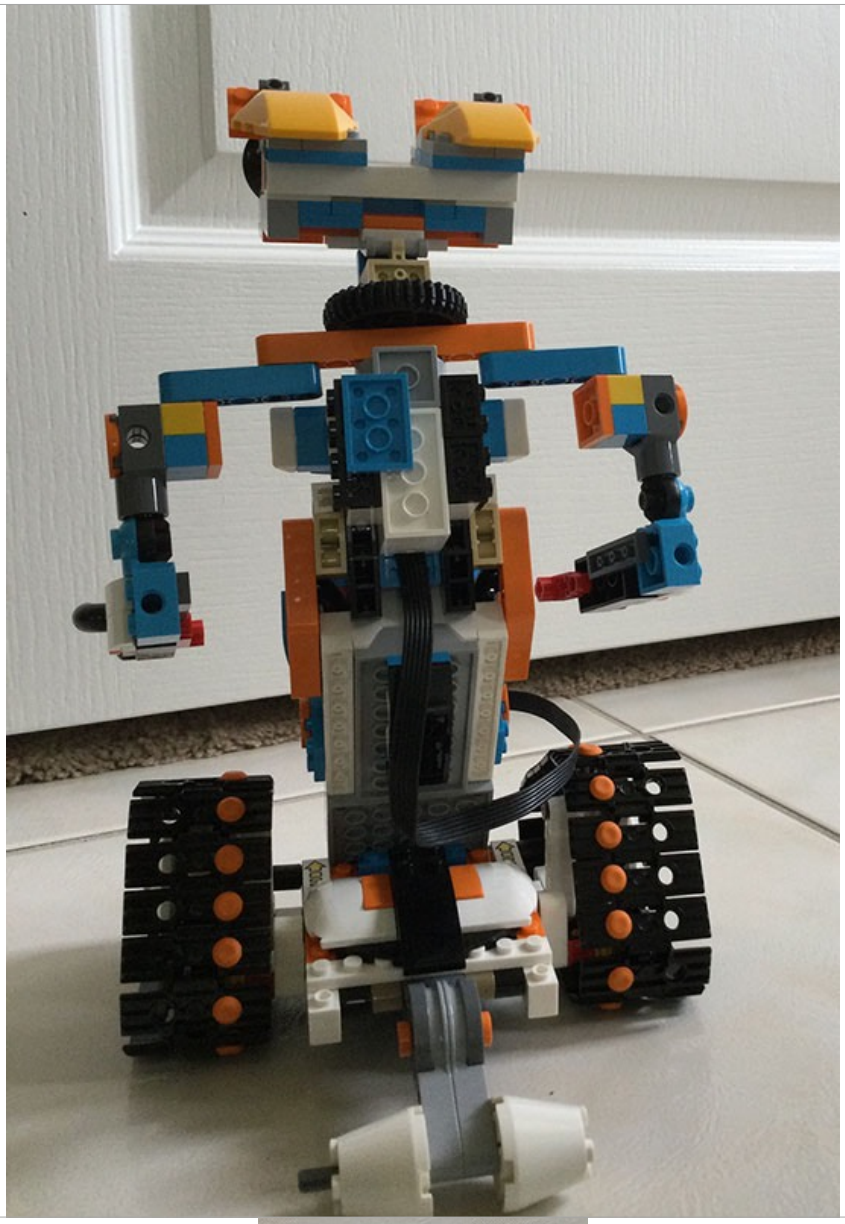




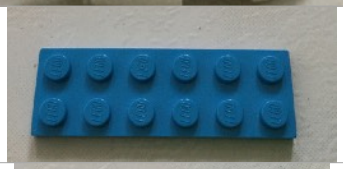


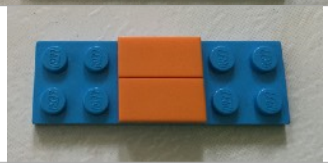
Attach head.



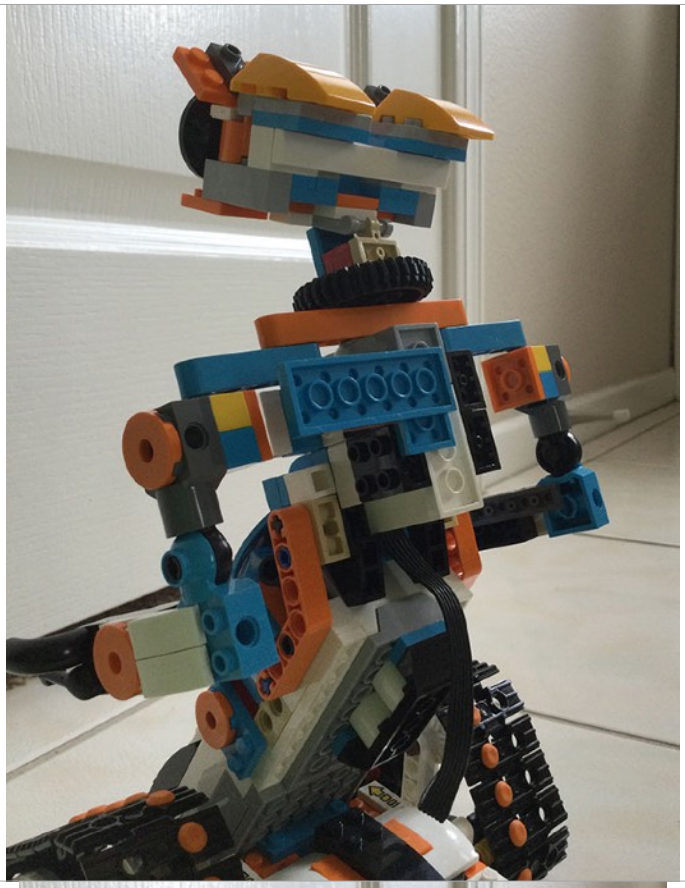


Build the laser cannon.

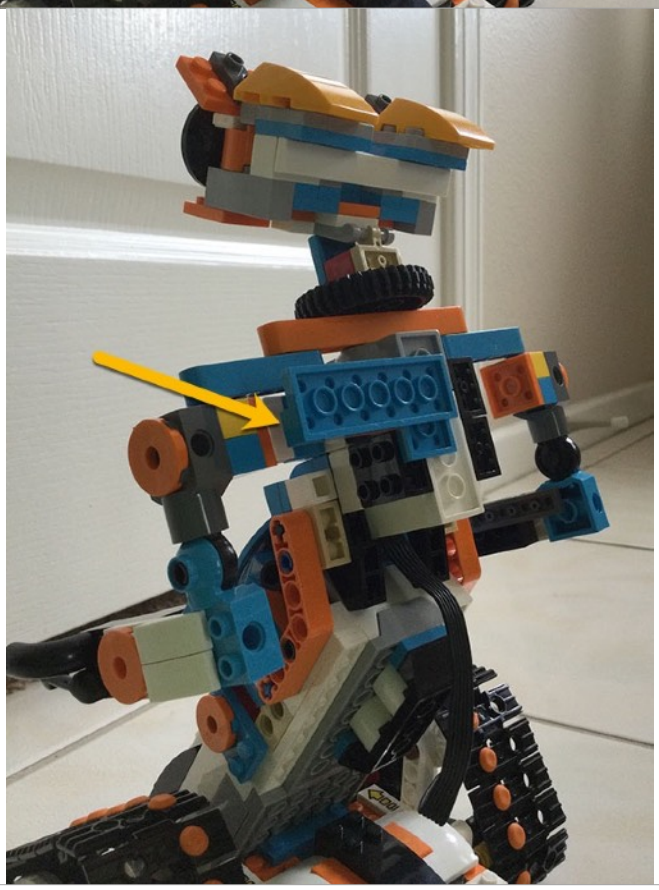




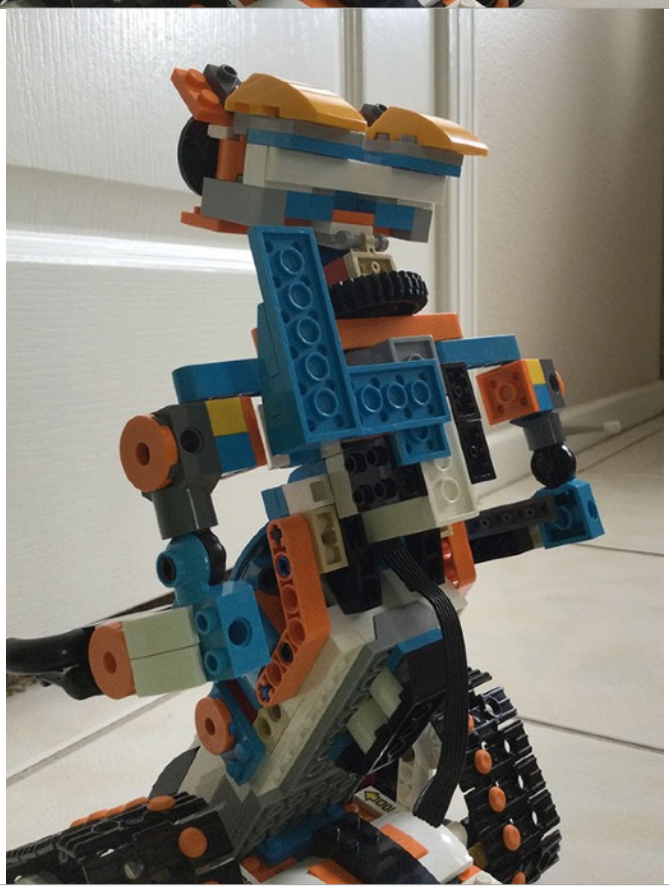
Attach to his back.



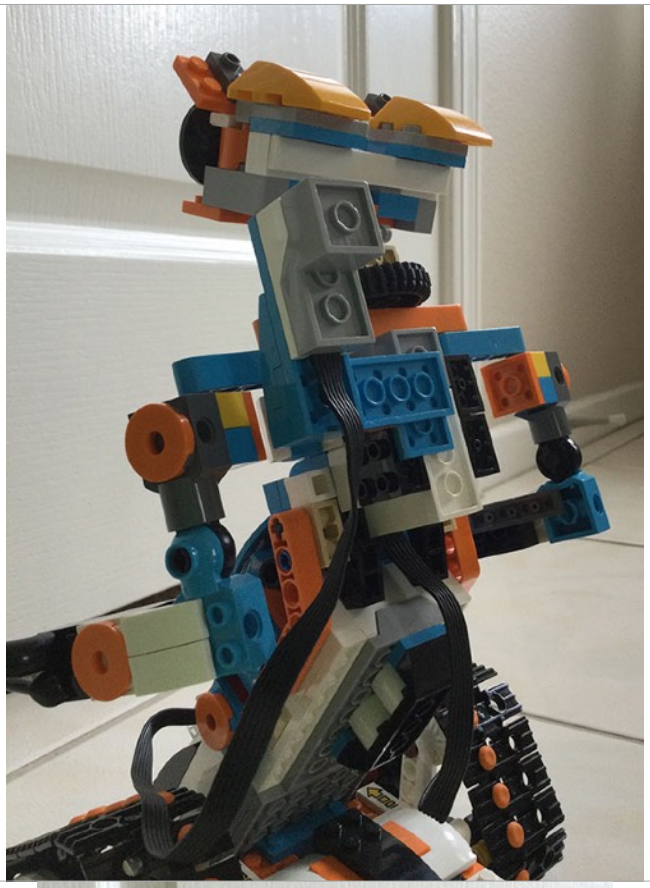
Add blue 1x2 plate inside

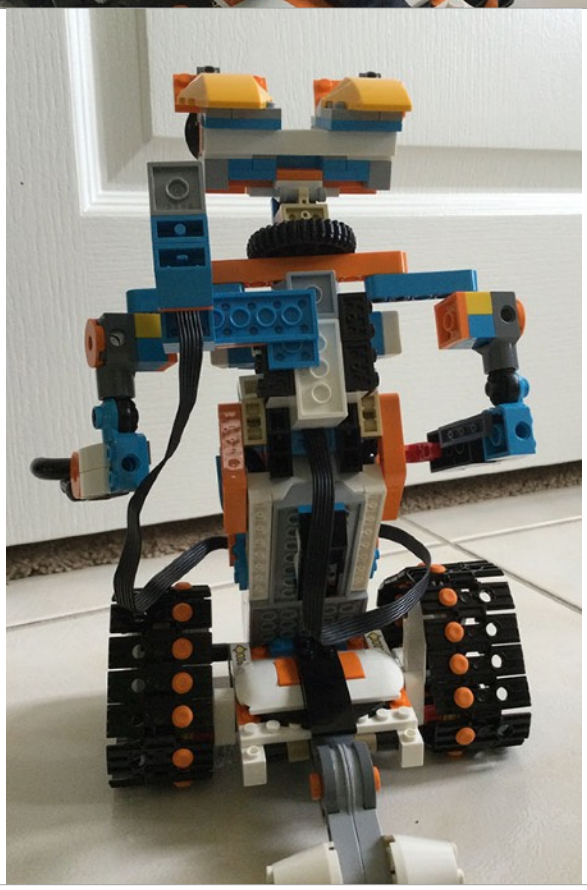


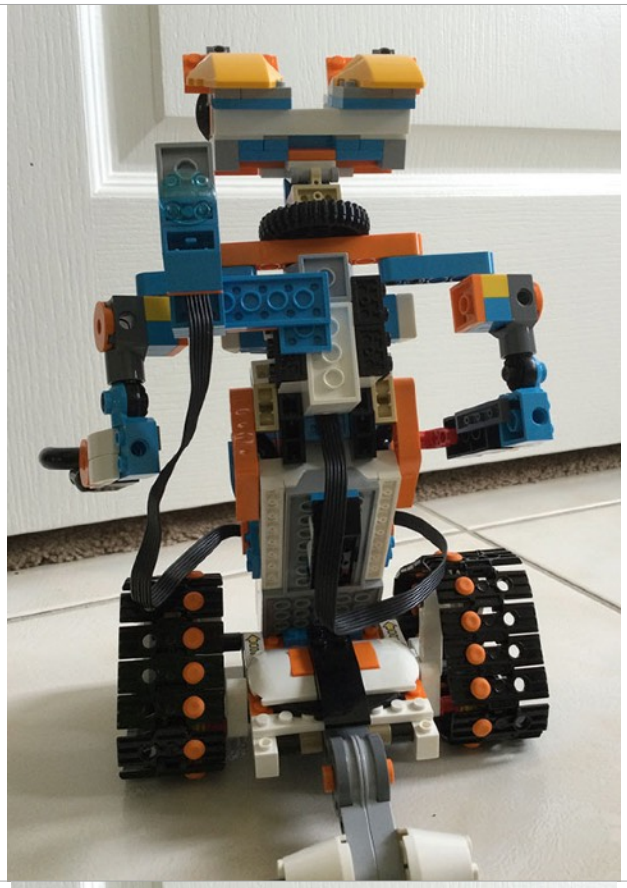
Add blue curved 2x4 brick with cutouts.



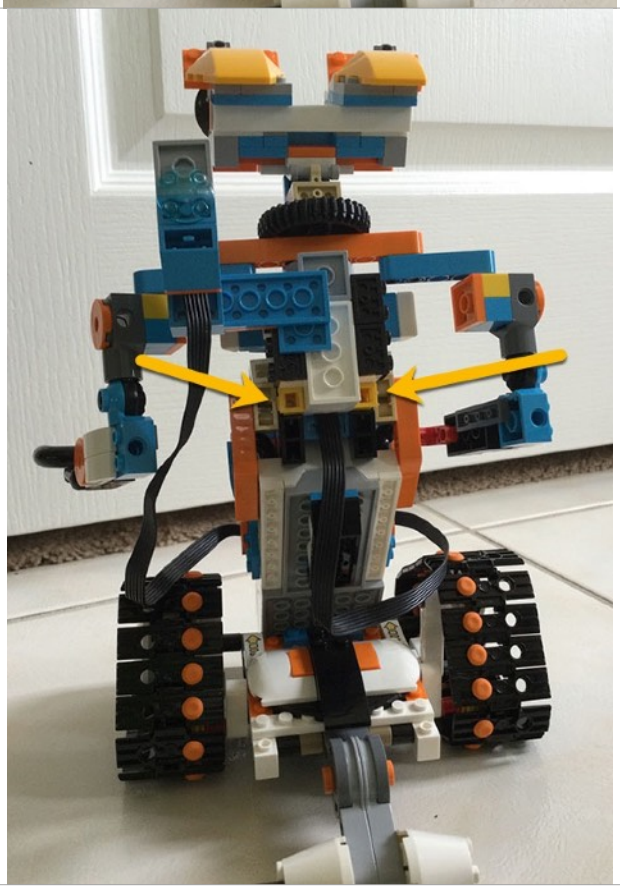
Attach distance sensor.



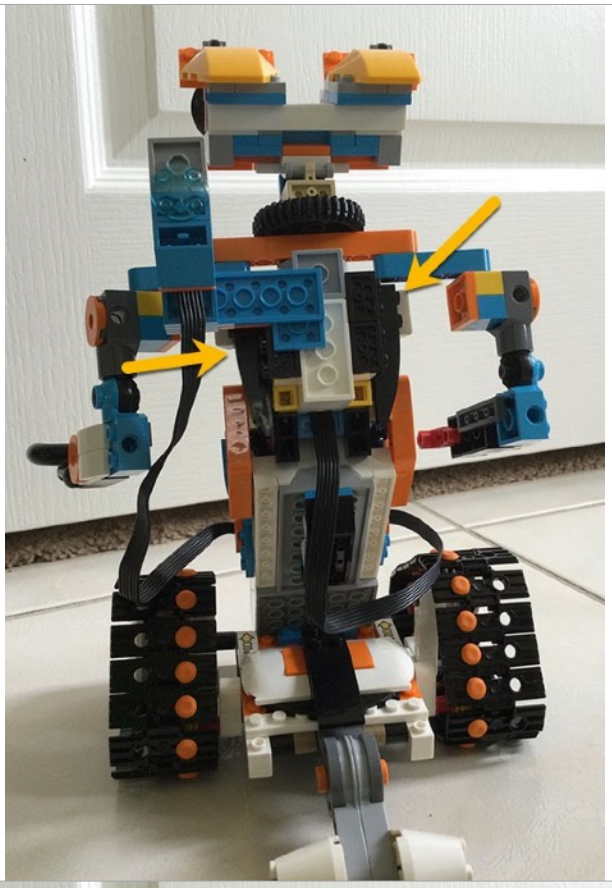




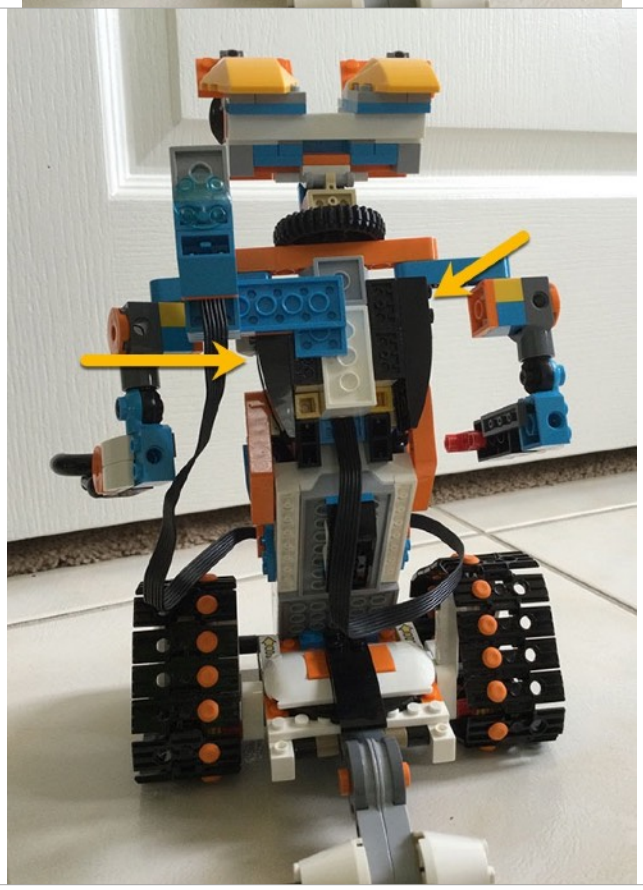
Add 2 yellow
1x1 bricks with studs
on the side.

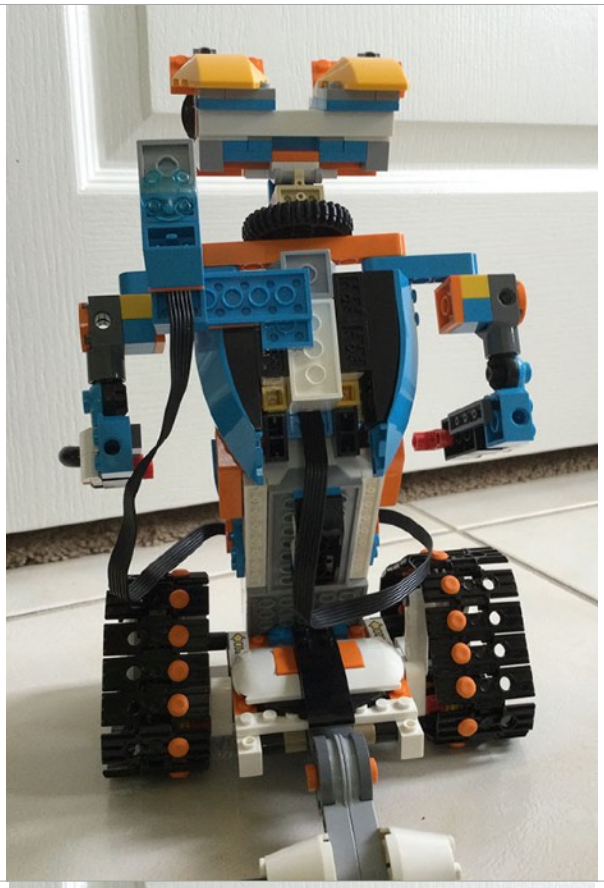
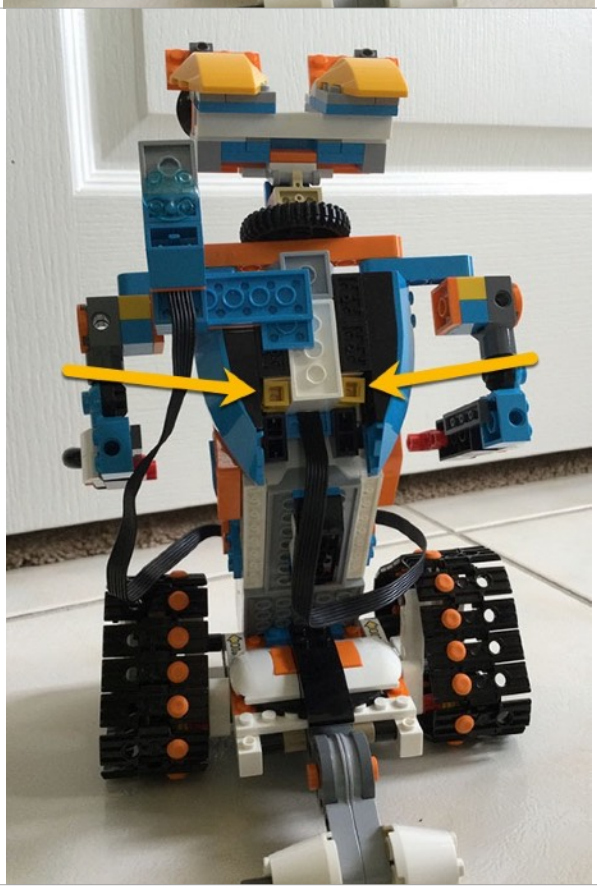


Add 2 black
2x6 curved bricks

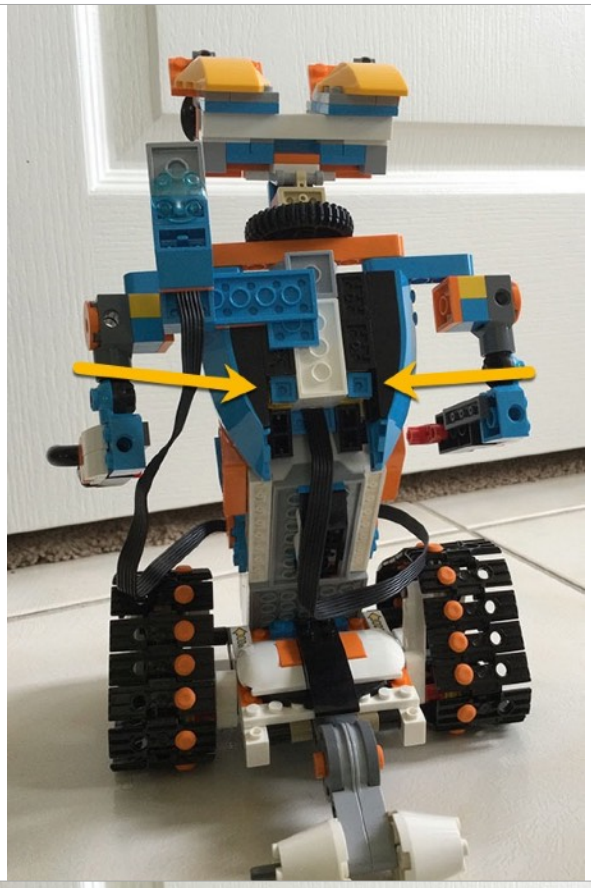


Add 2 black
1x6 curved slopes
right next to the
previous ones.

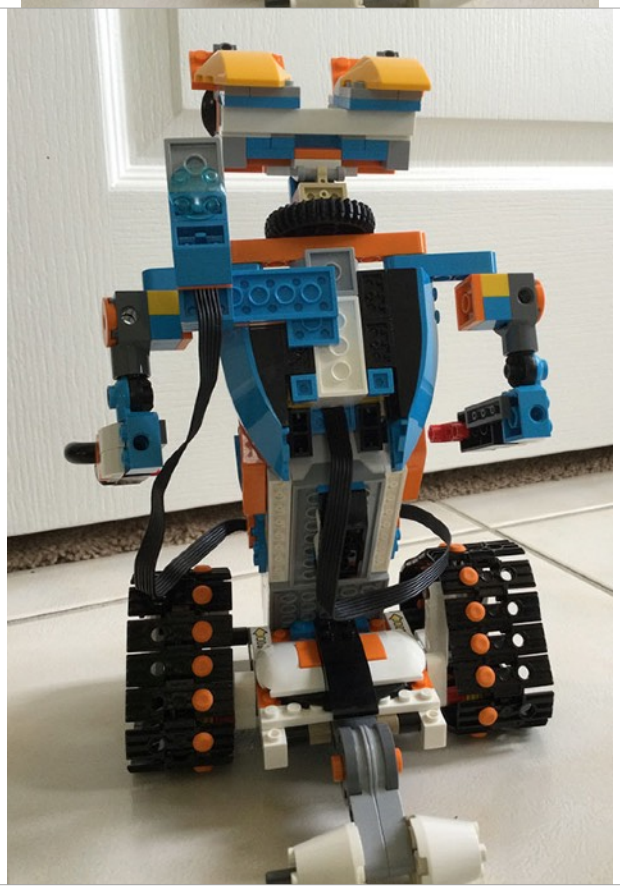


Add blue curved bricks to form outer body.	
Add 2 more yellow 1x1 bricks with studs on the side.	

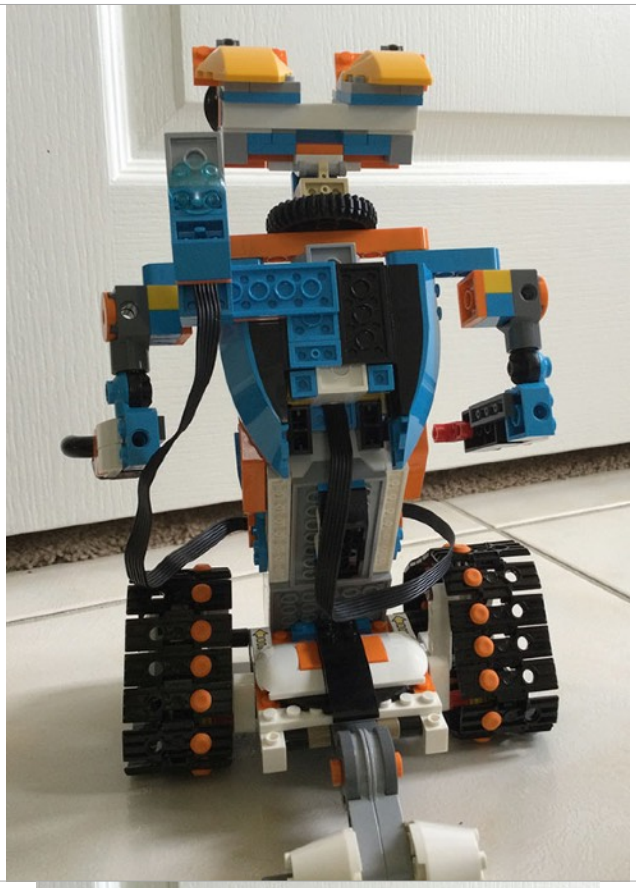
Add 2 blue
1x1 plates.



Add 2 more blue
1x1 plates.

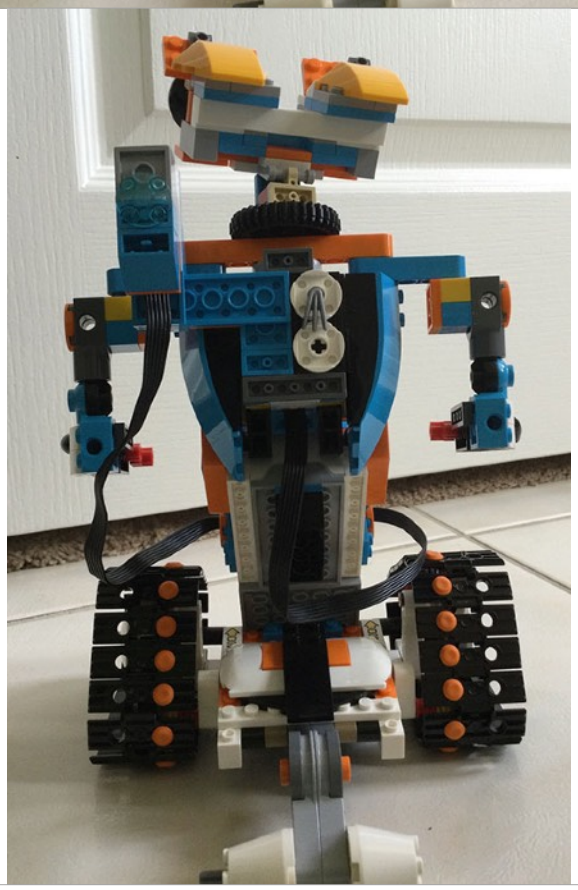


Attach black
2x4 plate and
blue 1x2 plate
to back for extra detail.

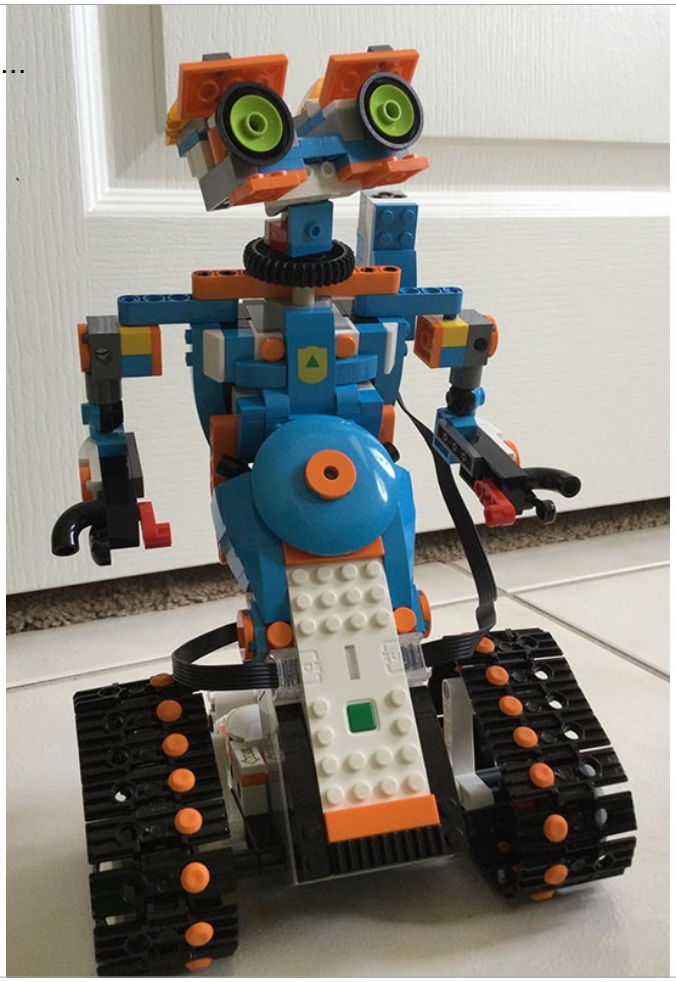


Add 2 white round
2x2 plates, with gray
“wires” and a dark gray
1x4 plate.

Also, add a 1x2 dark
gray plate just above
the white pieces.



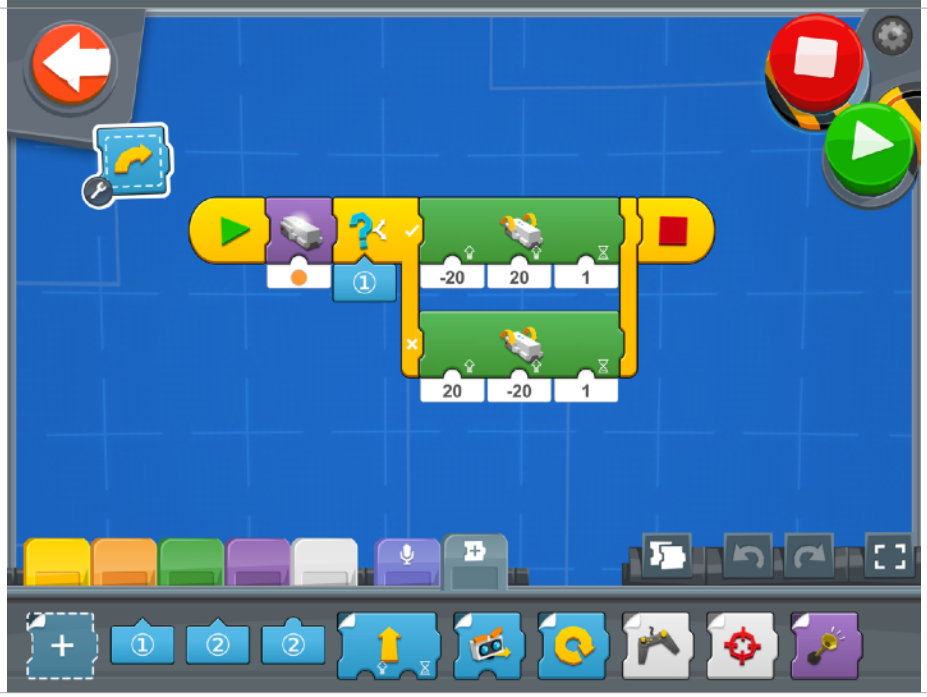
All done!
Now, let’s program him…



Programming Instructions

First, create the FORWARD block.

Next, create the LEFT and RIGHT block.



Create the HEAD TURN block.	
Create the SPIN block.	

(Optional) Create a JOYSTICK CONTROL block. (This block is not used in any of the following programs, but it is a fun addition to your own code.	
Create AIM and SHOOT laser cannon block.	

Create a STOP LIGHT SEQUENCE block.

This creates a countdown

All blocks are now completed. Now we just need to create the programs!

This one is called,“MAL-FUNCTION, NEED INPUT”

It uses code blocks we created earlier.

Trigger it by waving your hand over the sensor.

This one is called, “READY, SET, SHOOT” It uses the code block we built earlier.	
This one is called, “AUTO-NOMOUS ROBOT”. It uses code blocks we built earlier.	

Feel free to make your own programs for this model!
I would love to see what you come up with.

-Rowan