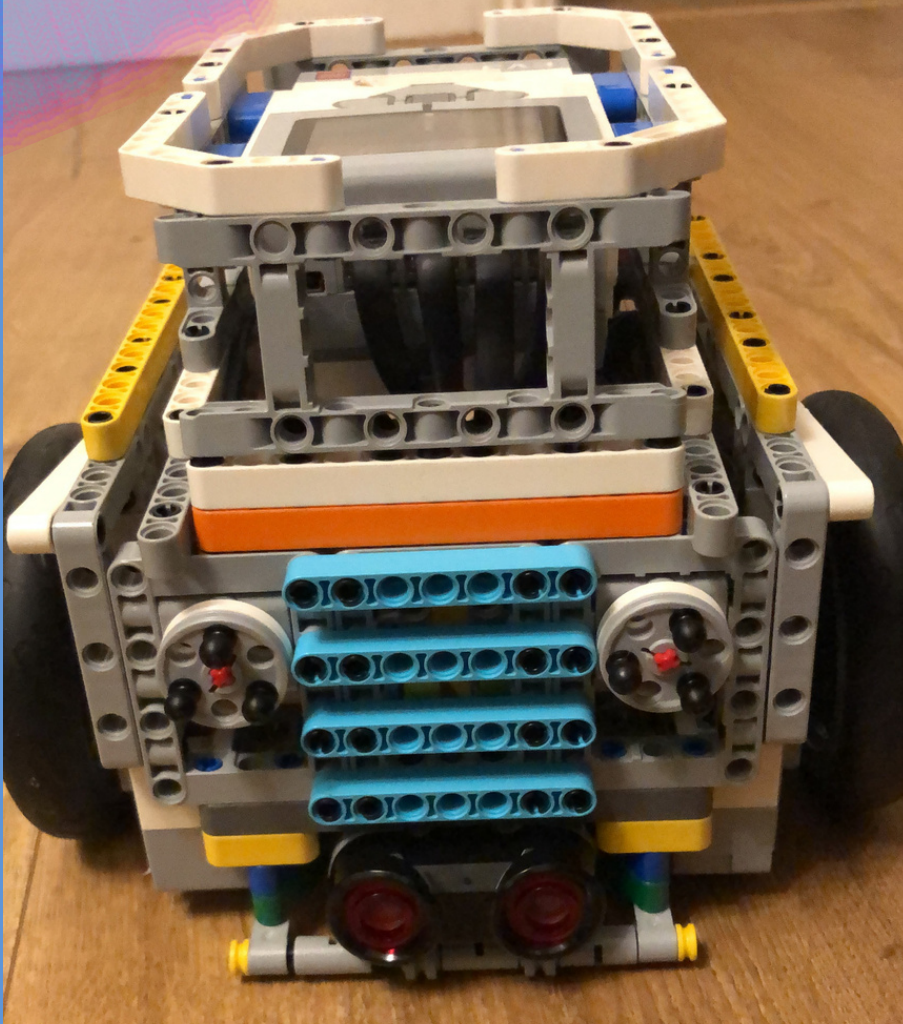




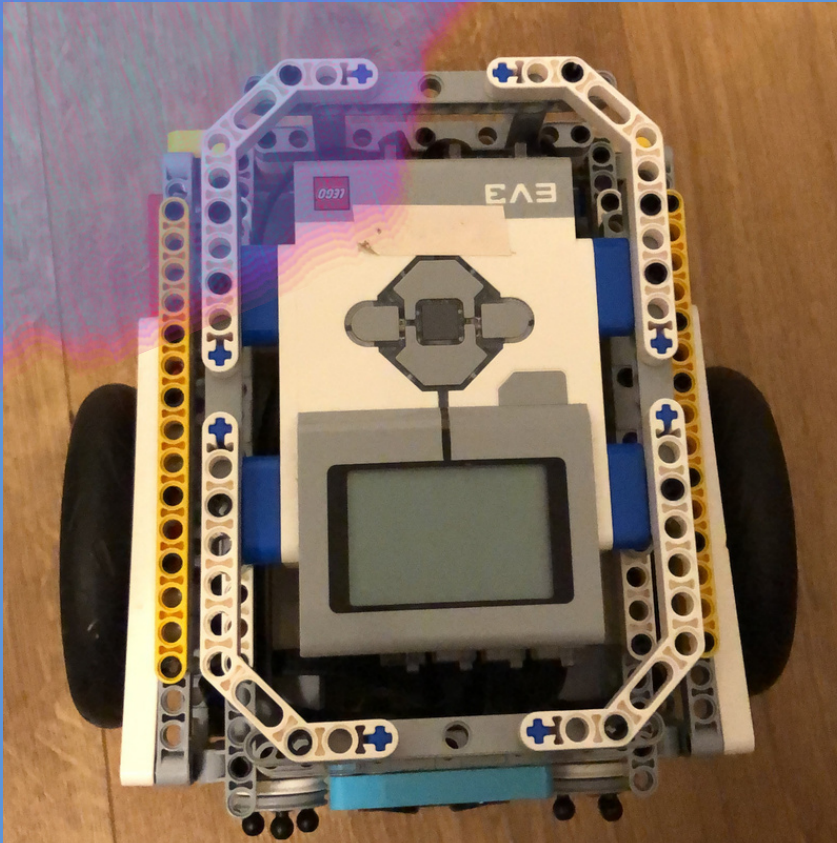
# Team CERC Robot-Bertie

## Front View

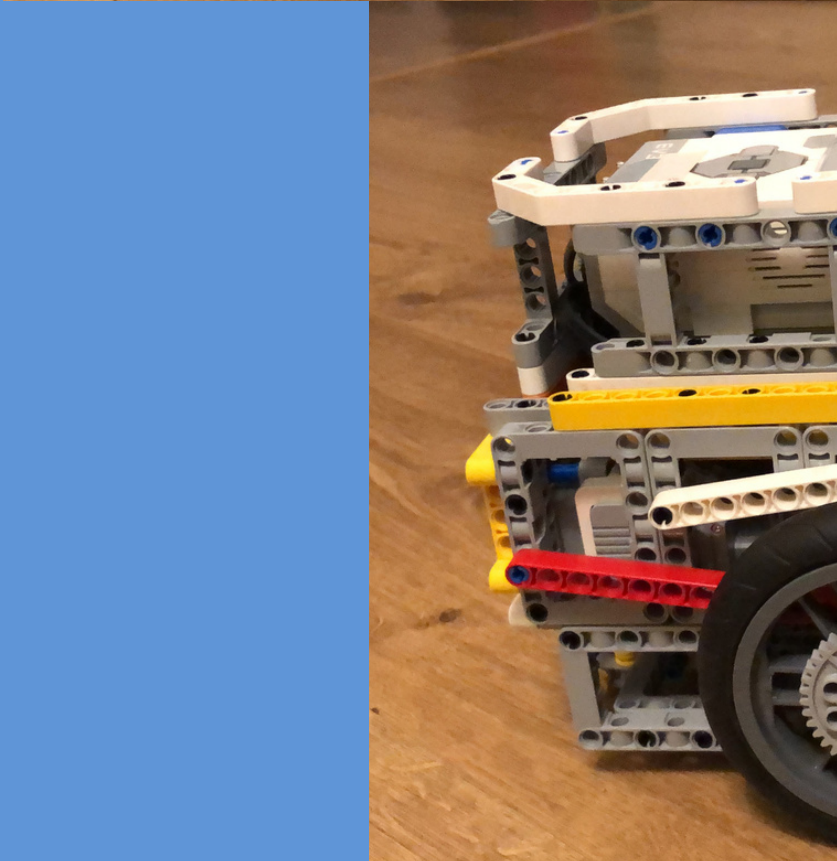


- Two Colour Sensors/one UW Sensor
- Racing bike Tyre 94.2mm D. x 22mm
- Length 20cm Width 17cm Height 16cm
- Fast and reliable turning
- Two Front medium motors for easy motorised and pinless attachment





**Top View**

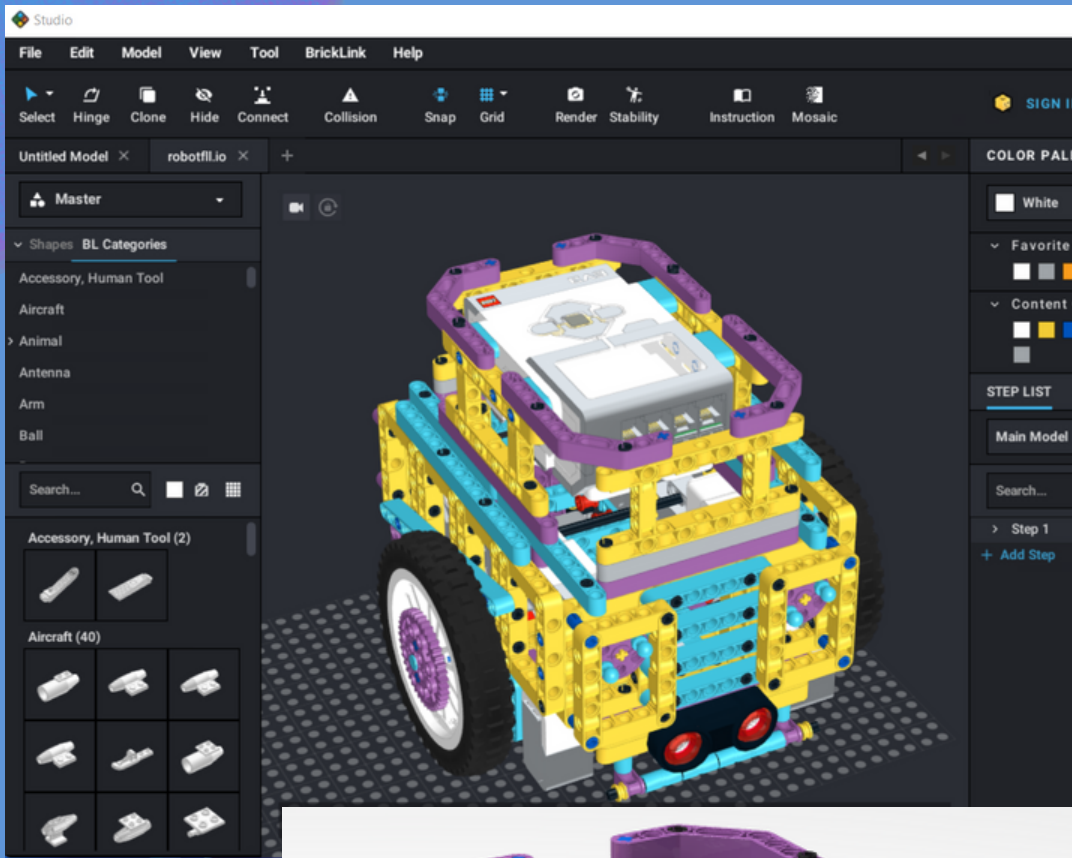


**Side View**

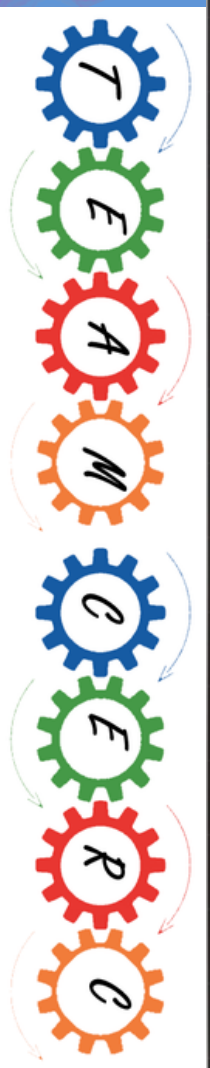
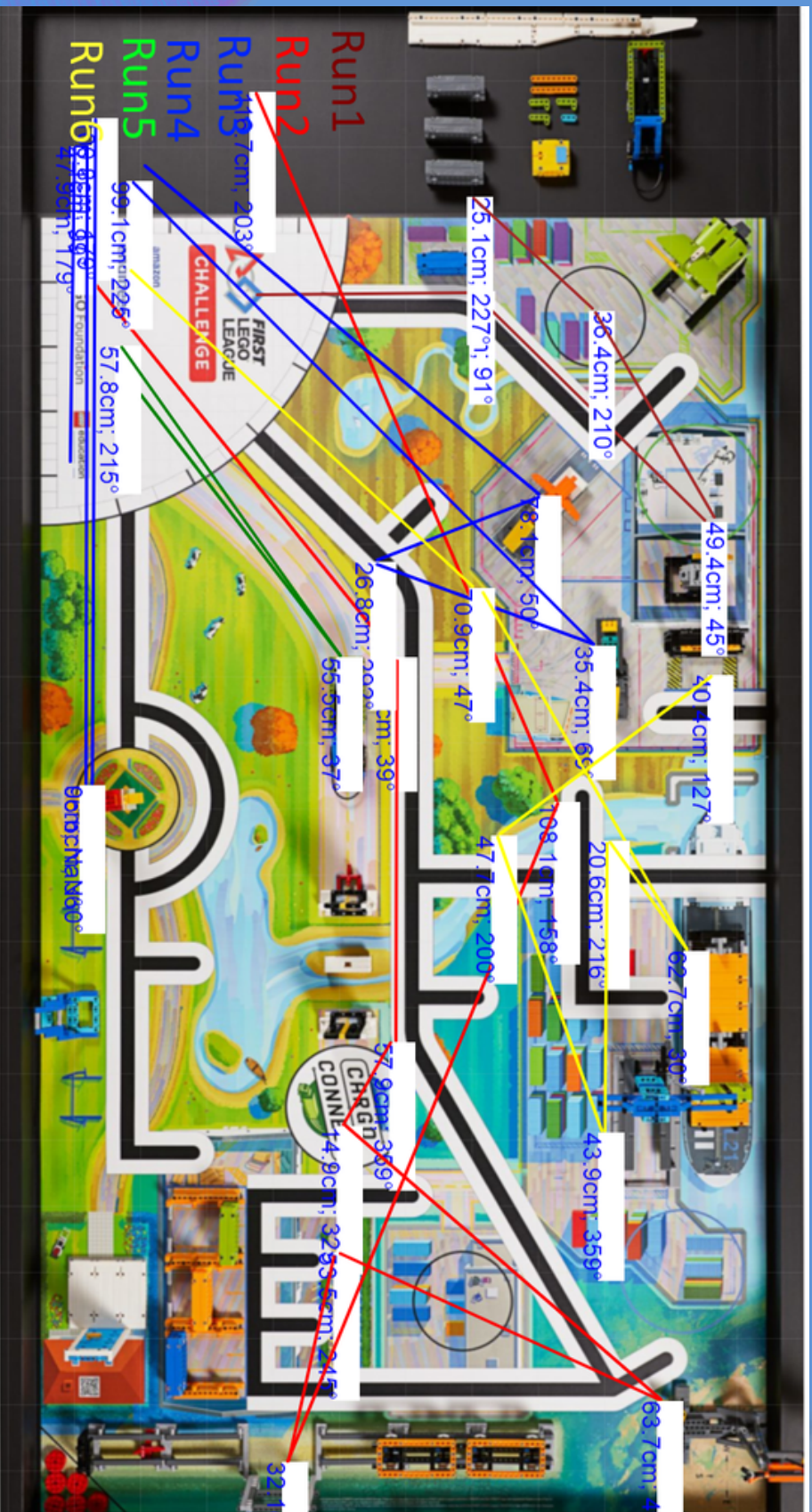


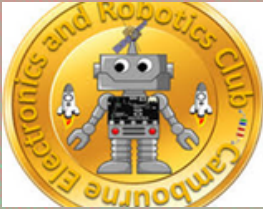


# 3D Model of Robot -Studio



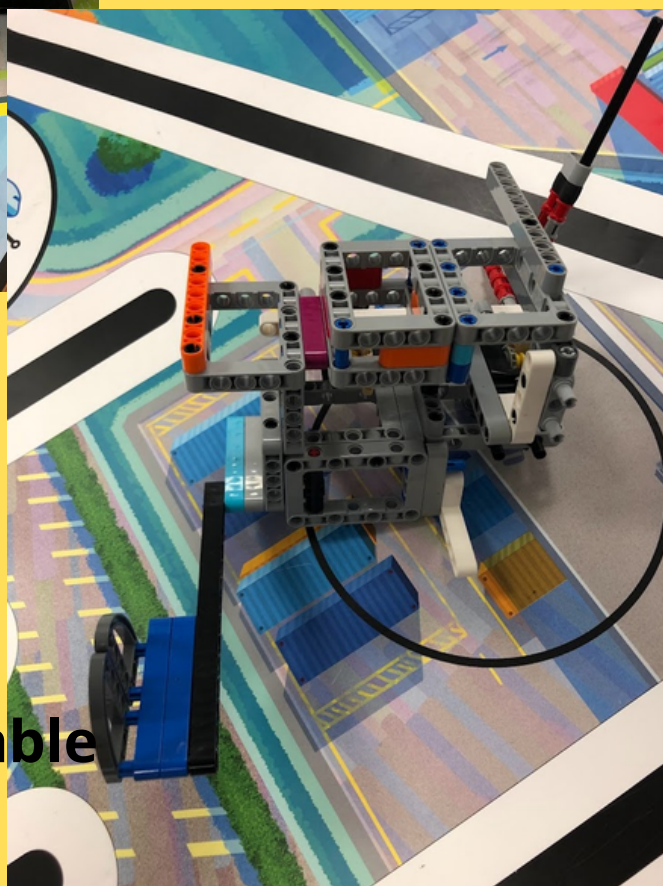
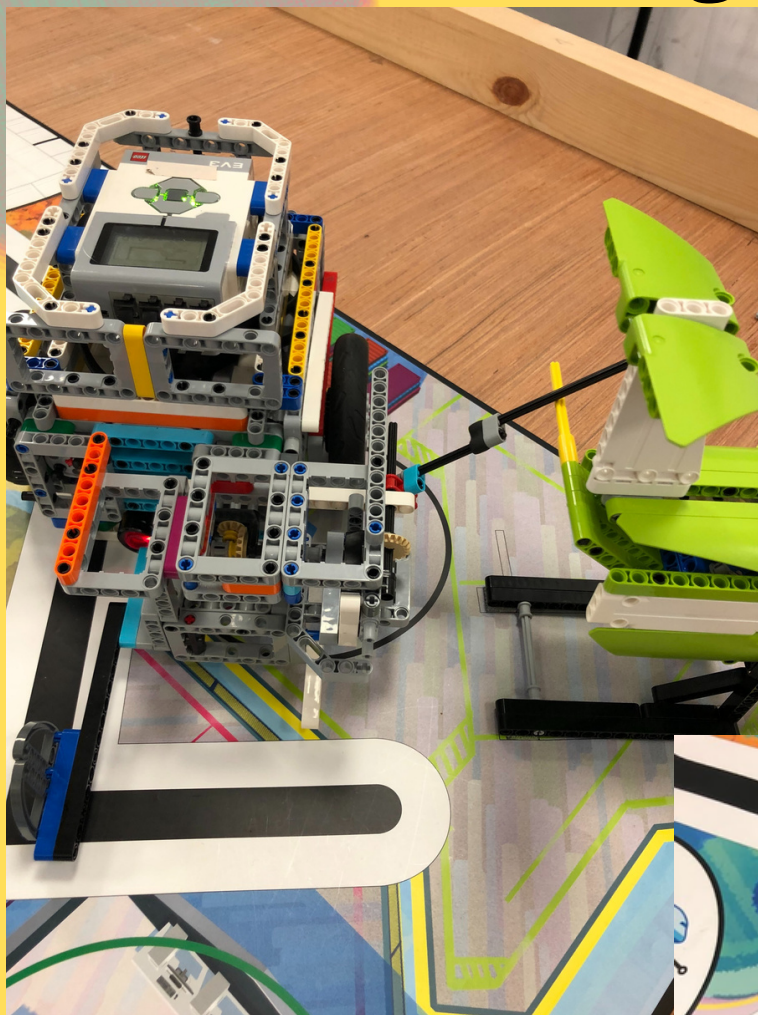
# CERC 5 Robot runs





# M03-Unload Cargo Plane

## M05-Switch Engine



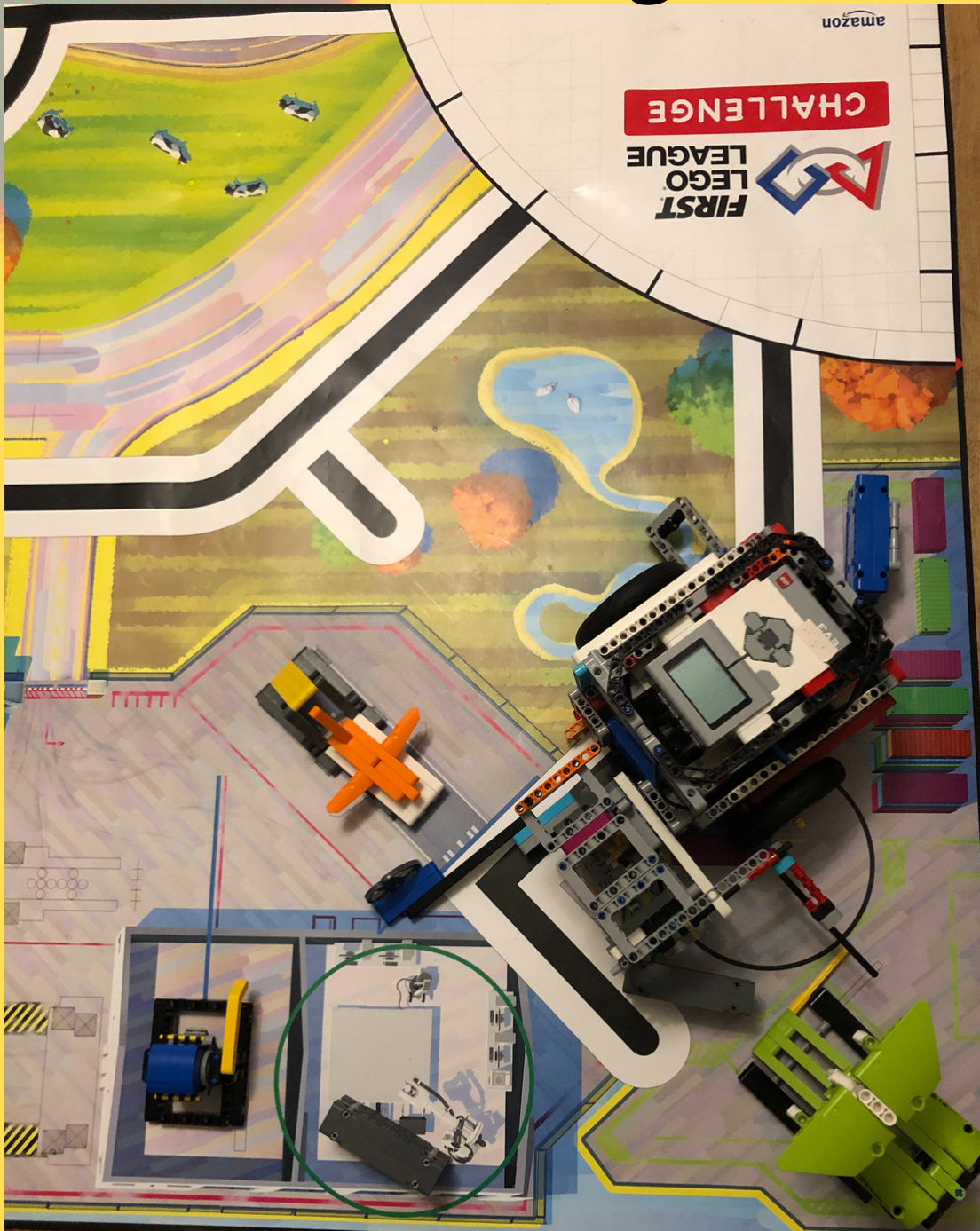
- Unloading is not reliable
- Attachment is bulky





# M03-Unload Cargo Plane

## M05-Switch Engine



- Cargo is not leaving in circle because bulky attachment
- Attachment some times comes off on mat unable to finish all the missions





# M03-Unload Cargo Plane

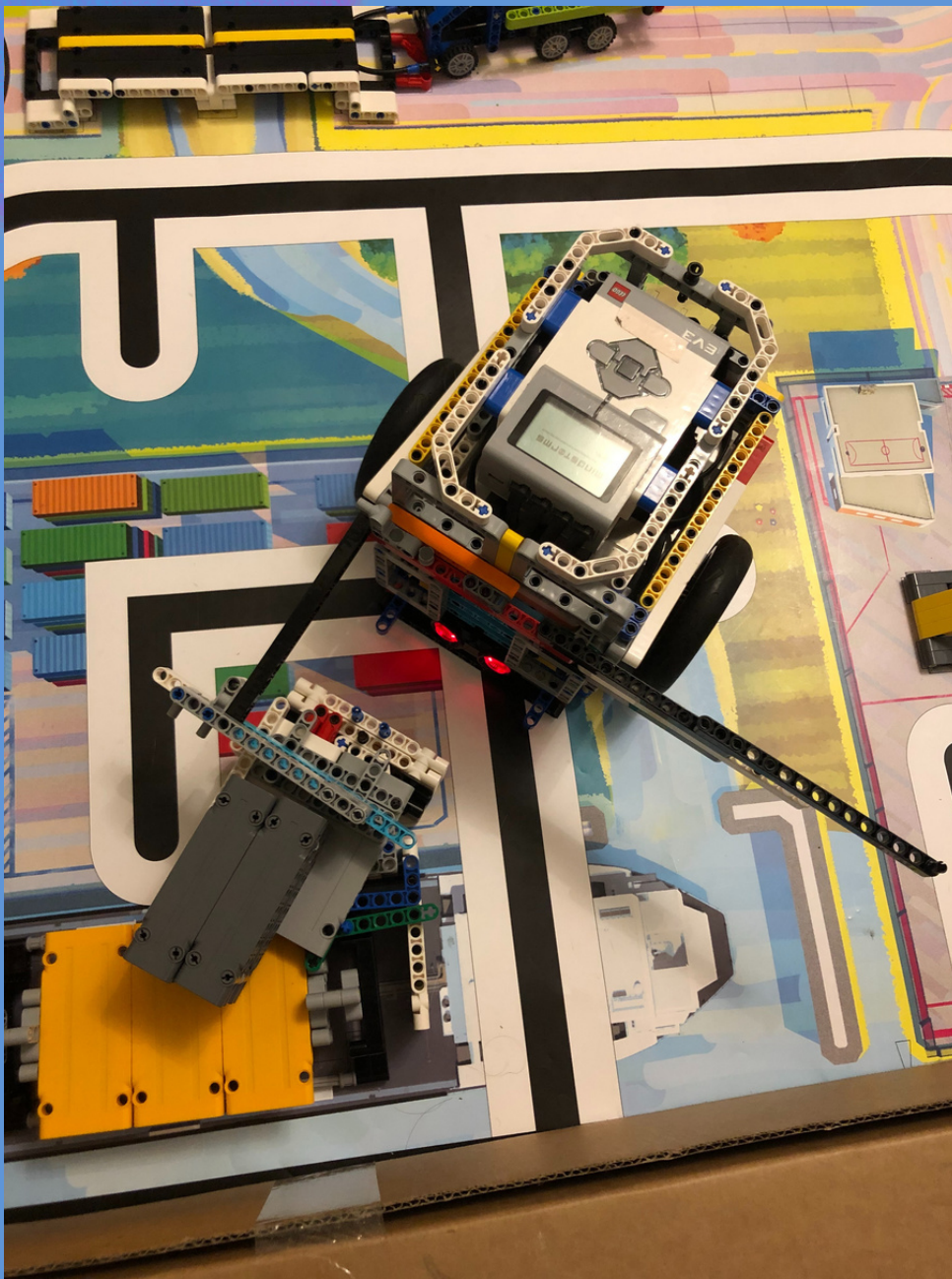
## M05-Switch Engine



- Leaves the front of attachment on the circle with cargo, finishing M05 mission
- Uses Motor to unload M03 and brings cargo to centre of circle by moving



# M15-Load Cargo on Ship



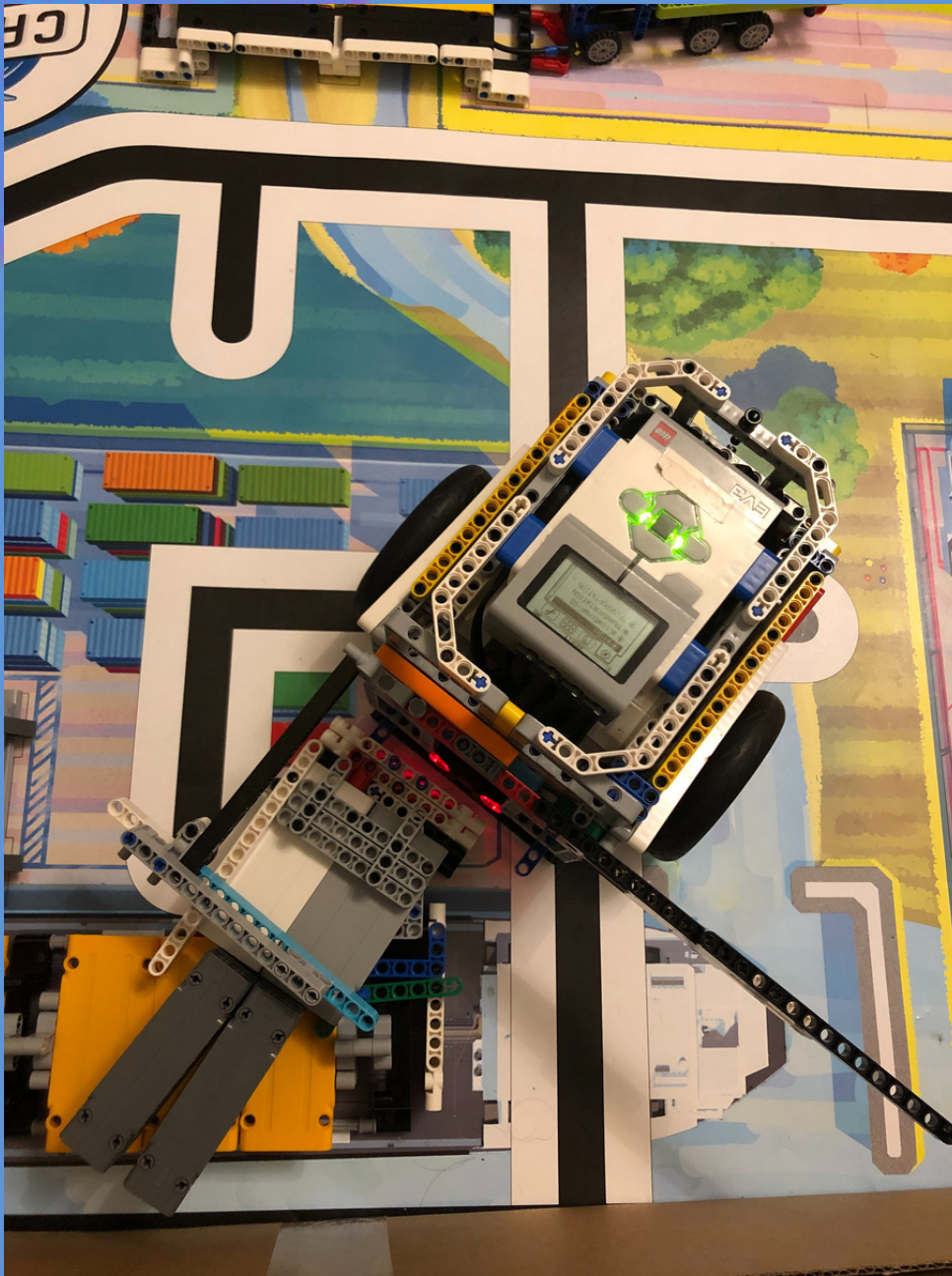
- Robot pushes the cargo with attachment then goes back and pushes cargo with T-shape beams attached separately to robot







# M15-Load Cargo on Ship



- picture of robot pushing cargo from attachment to ship deck





# M13-Platooning Trucks/ M14-Bridge



- Attachment is not pin less so takes time to change





# M12 -Load Cargo on Ship Deck

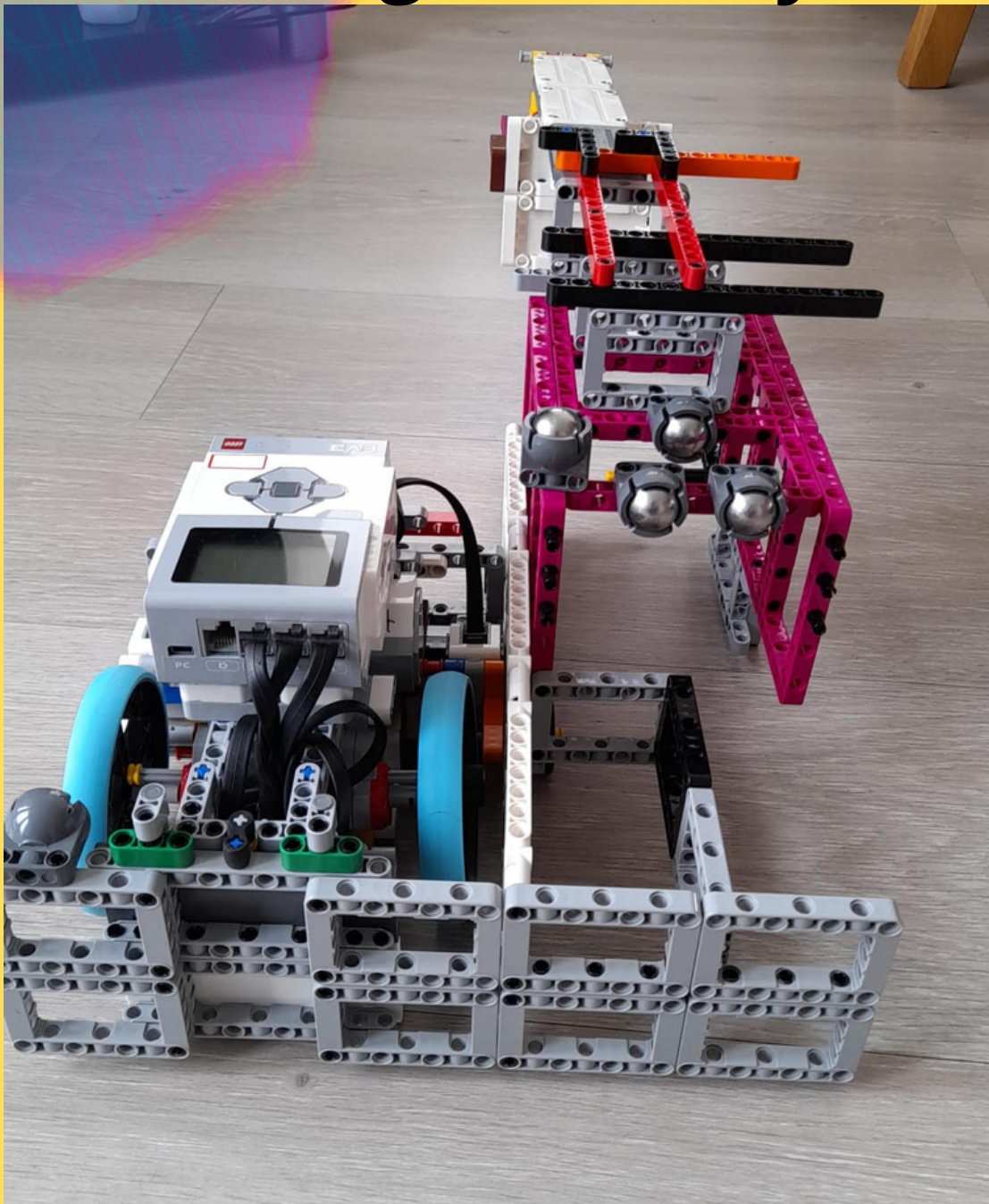


- Cargo slips from the wobbly deck
- Attachment is bigger causes turns difficult
- Attachment adding taking time and not pinless





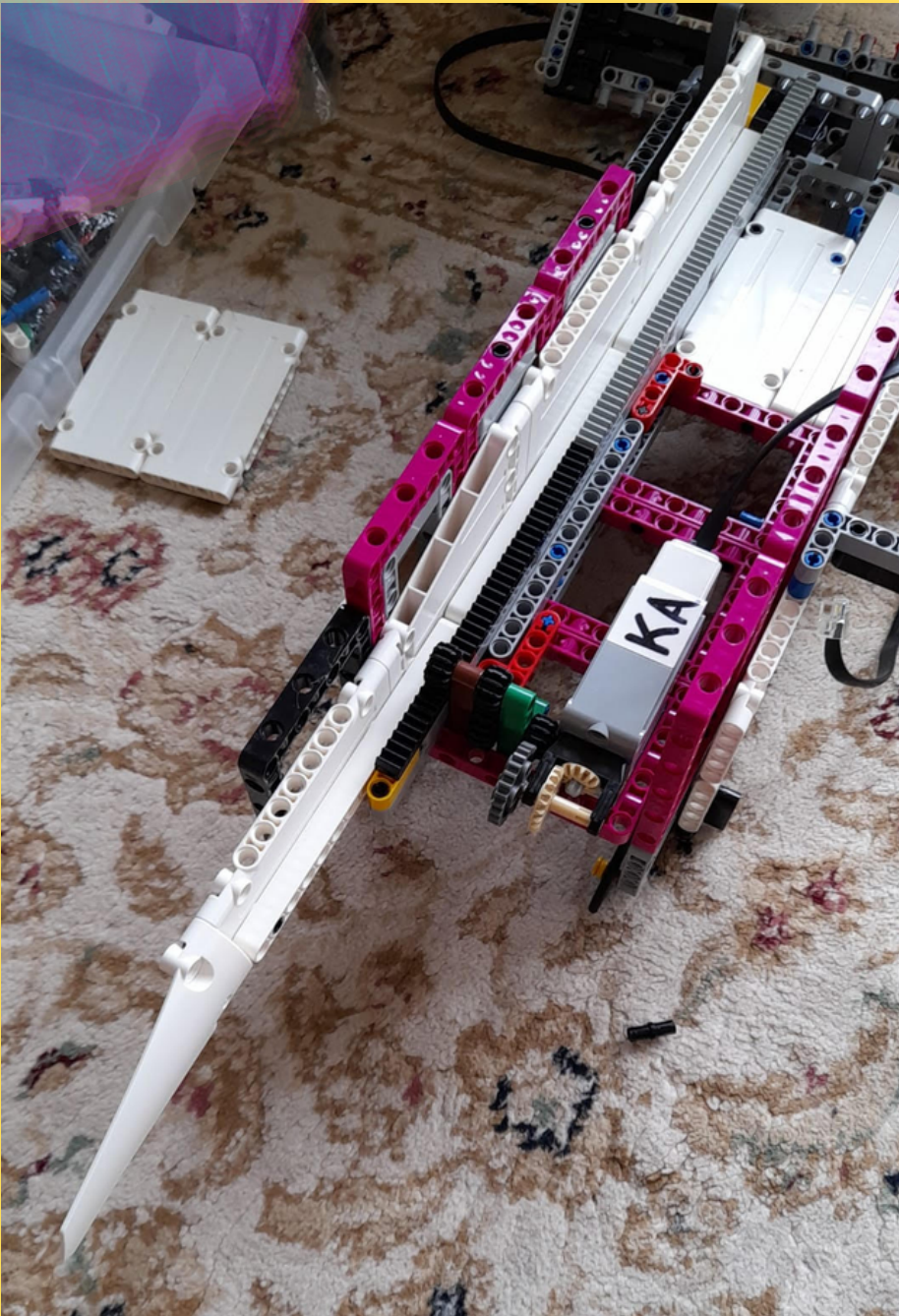
# M12 -Large Delivery/M16



- Weight of attachment making robot to turn even if we go straight next to table wall and causing chicken to move



# M12 -Large Delivery/M16



- Attachment is too big causes difficult turn
- Using motor outside the robot needs changing wires take time

