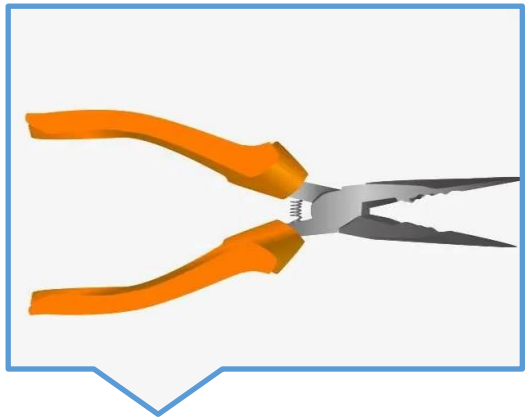
17.Hammer robot

1.Introduction



If you are given a tool that allows you to crack very hard nuts. What tool would you choose?



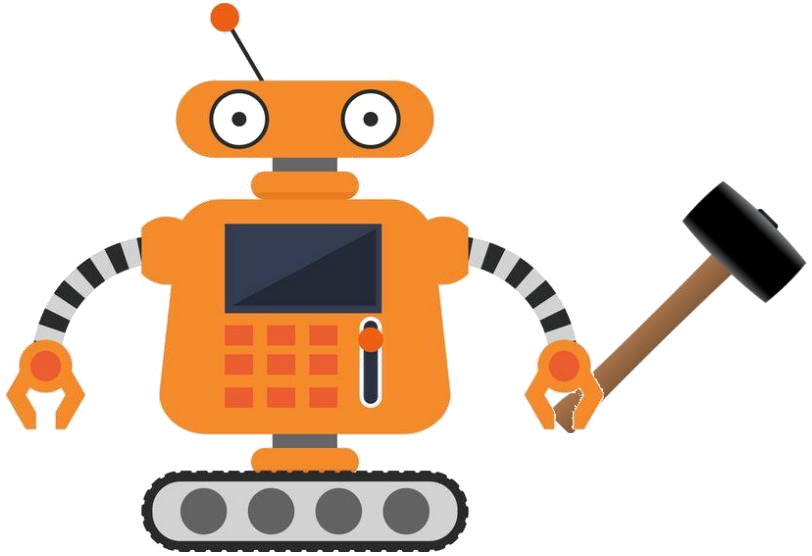






1.Introduction

Today we're going to make a robot that has a hammer that can help us hit what we want to hit.

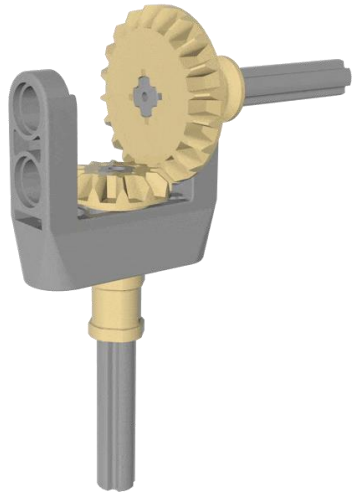


2.Exploration

The first problem we have to solve is how to connect the motor and hammer together.

We can use the transmission structure of bevel gears



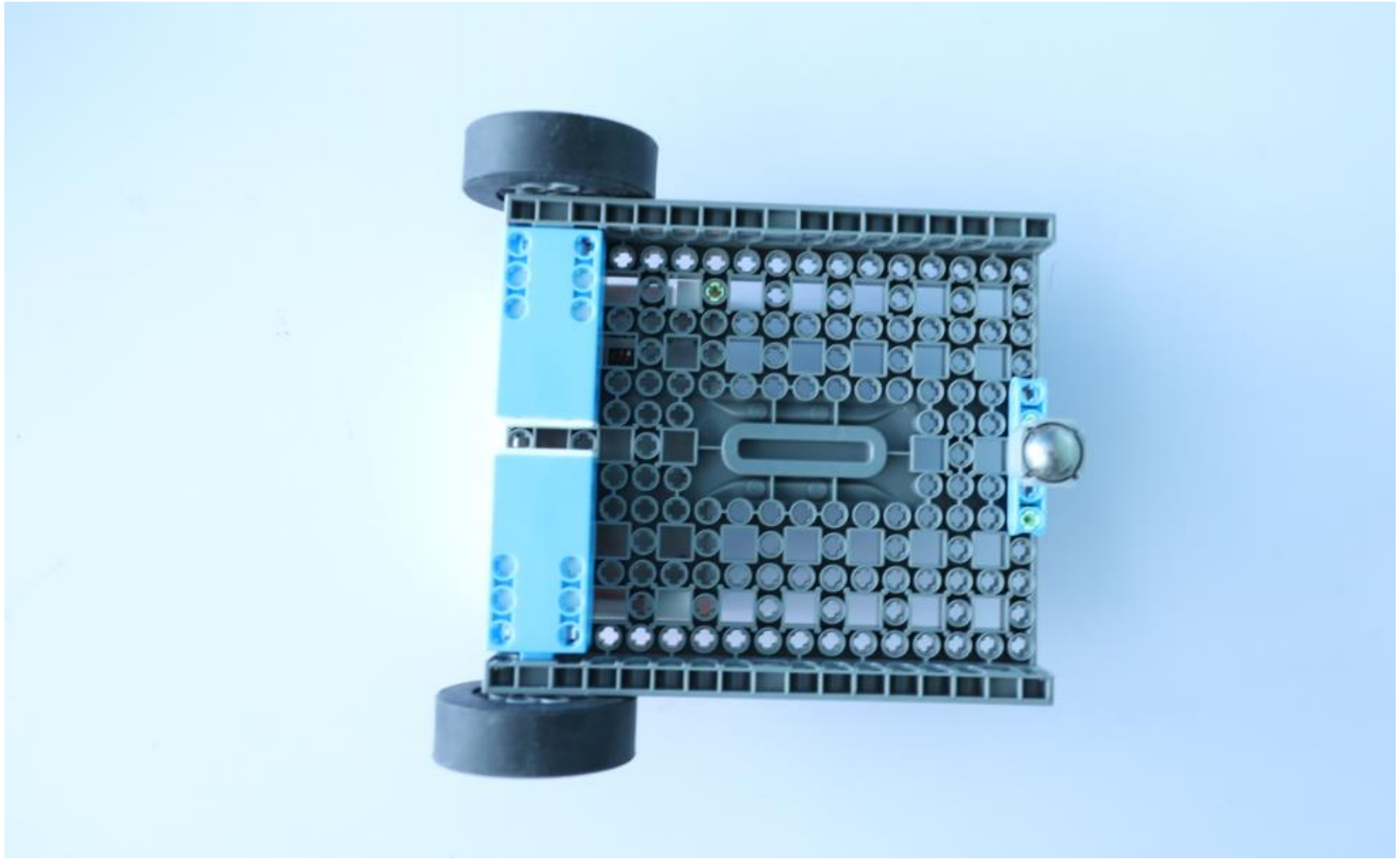


2.Exploration

We can also add a Touch Sensor to make it a remote control. We just press the Touch Sensor and the hammer will work.



3.Construction



3.Construction



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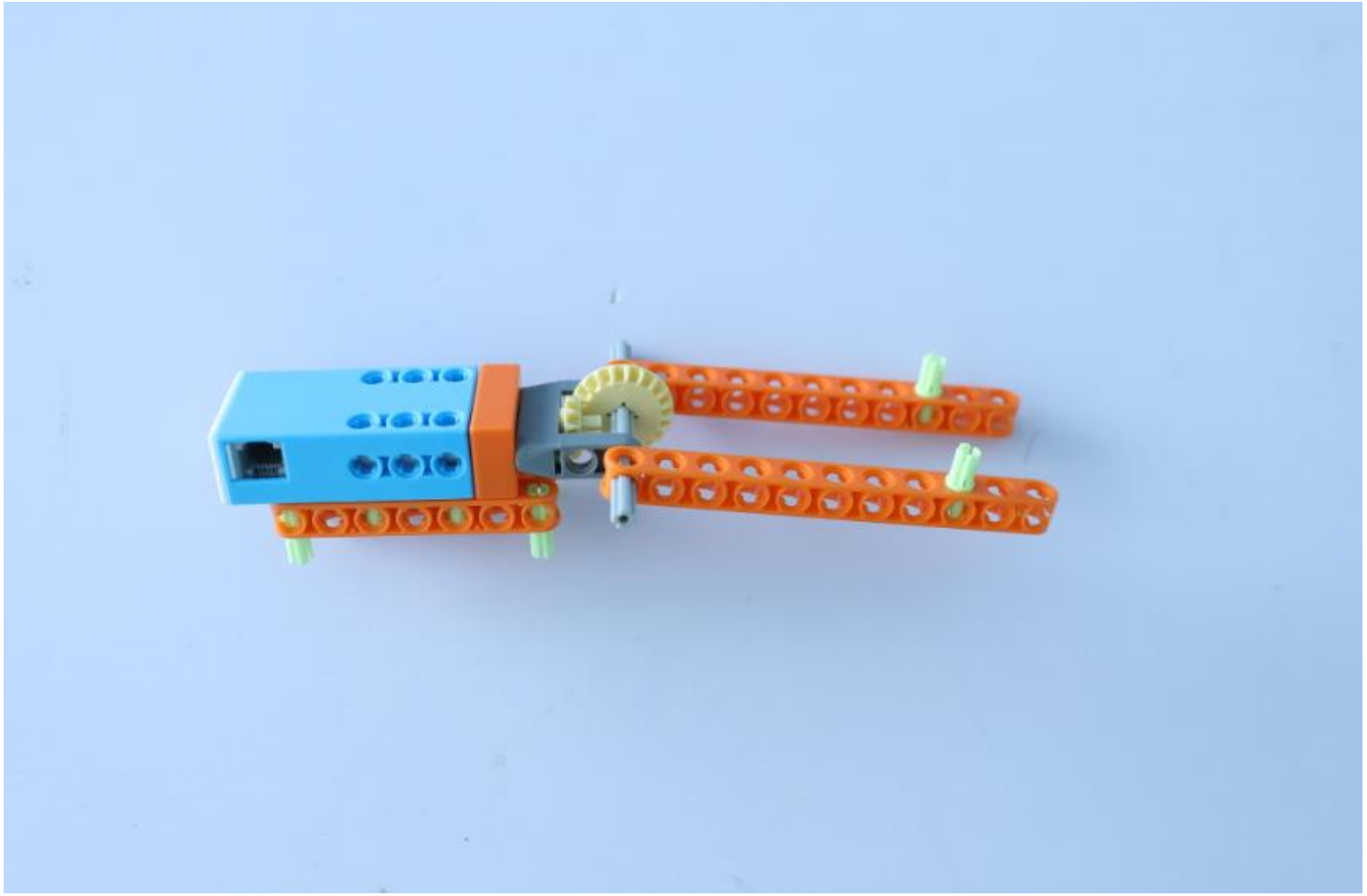

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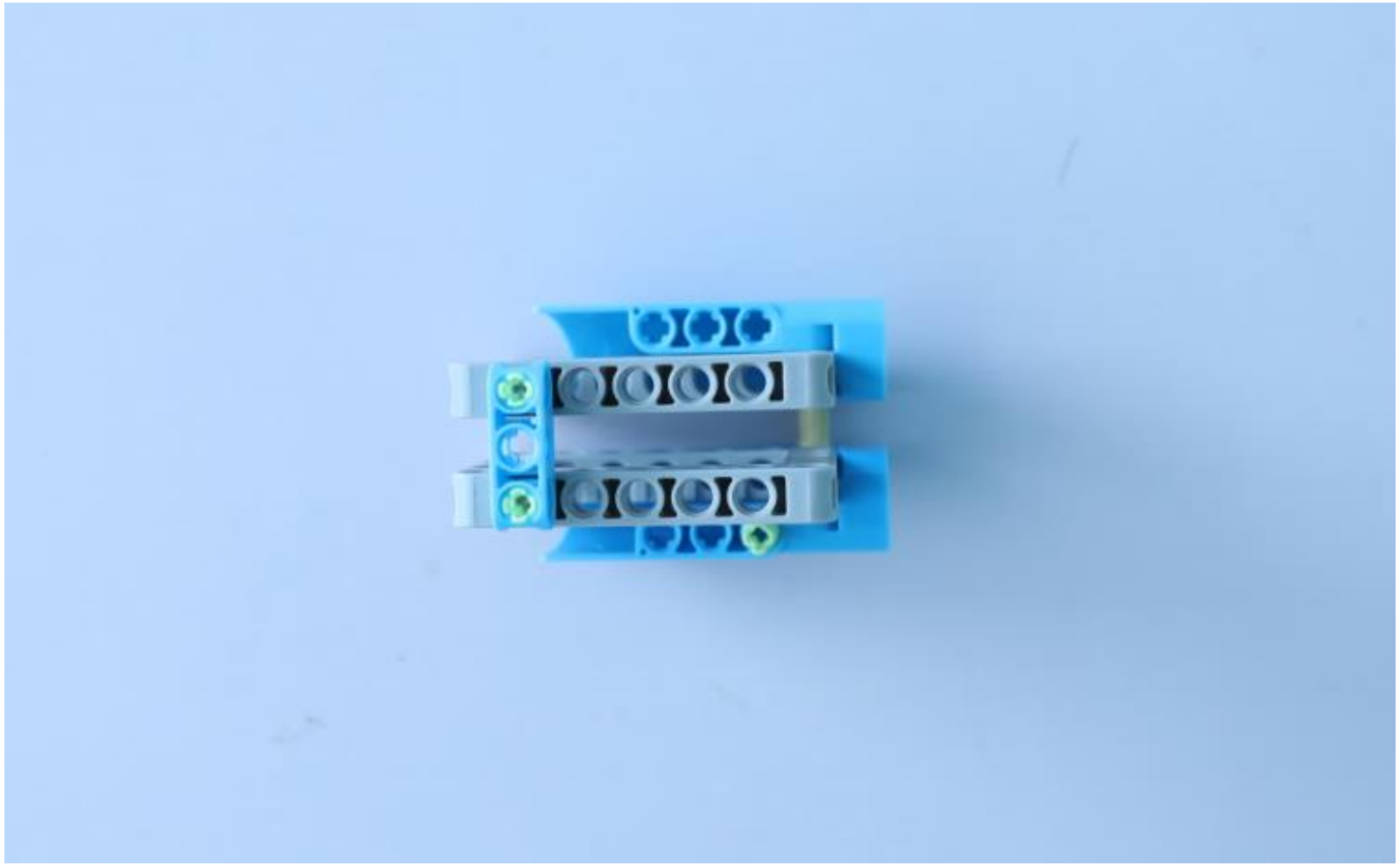

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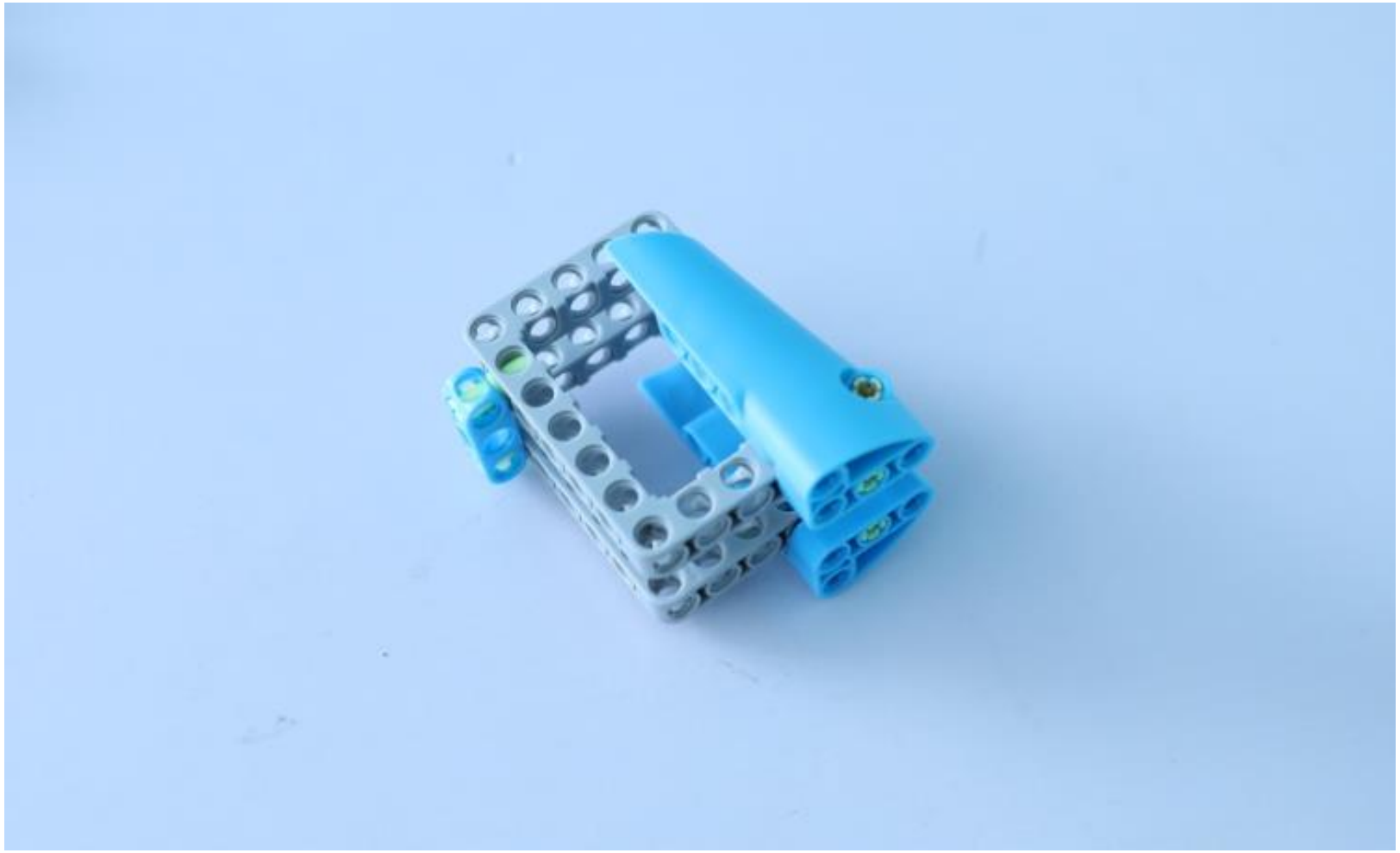

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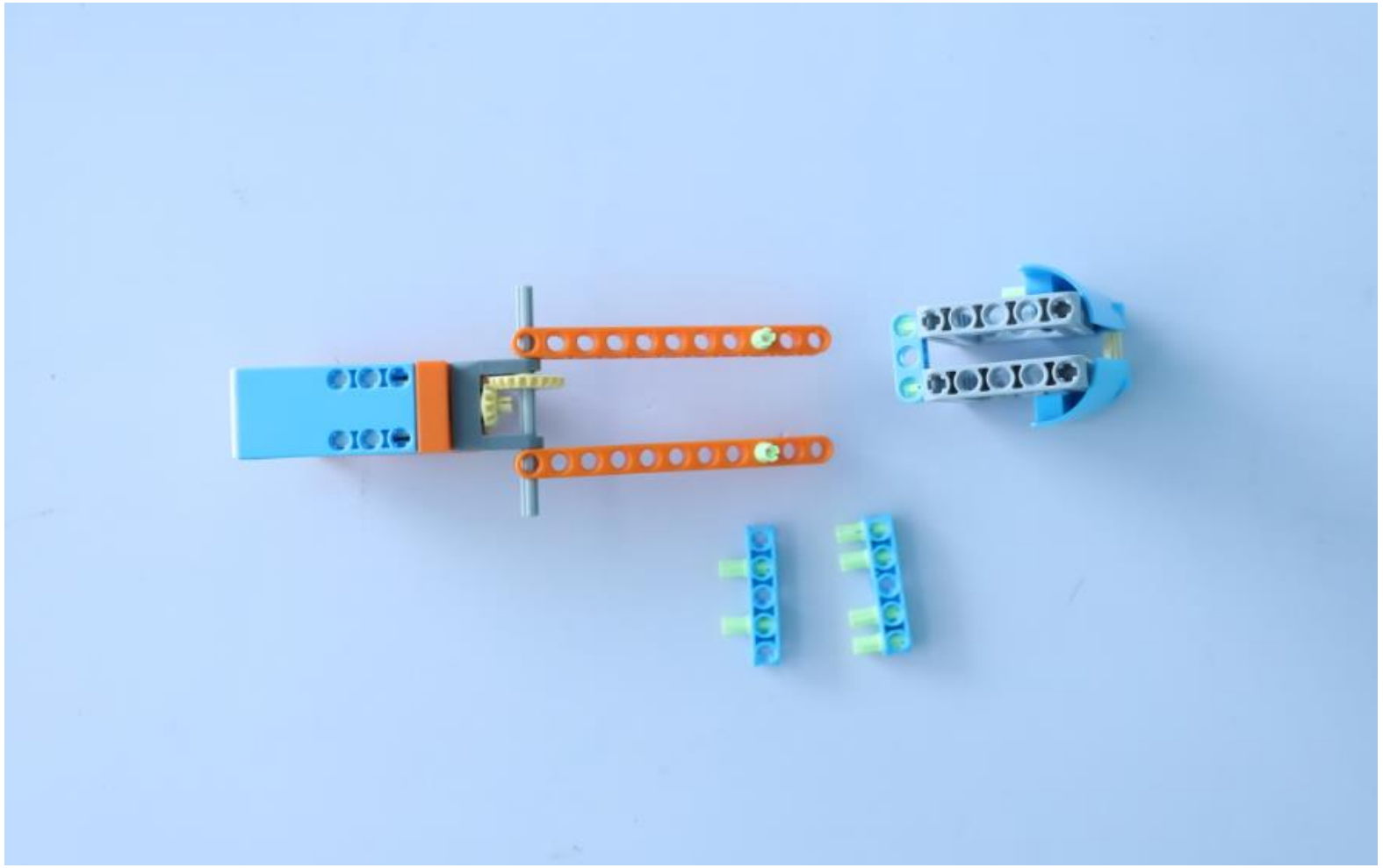

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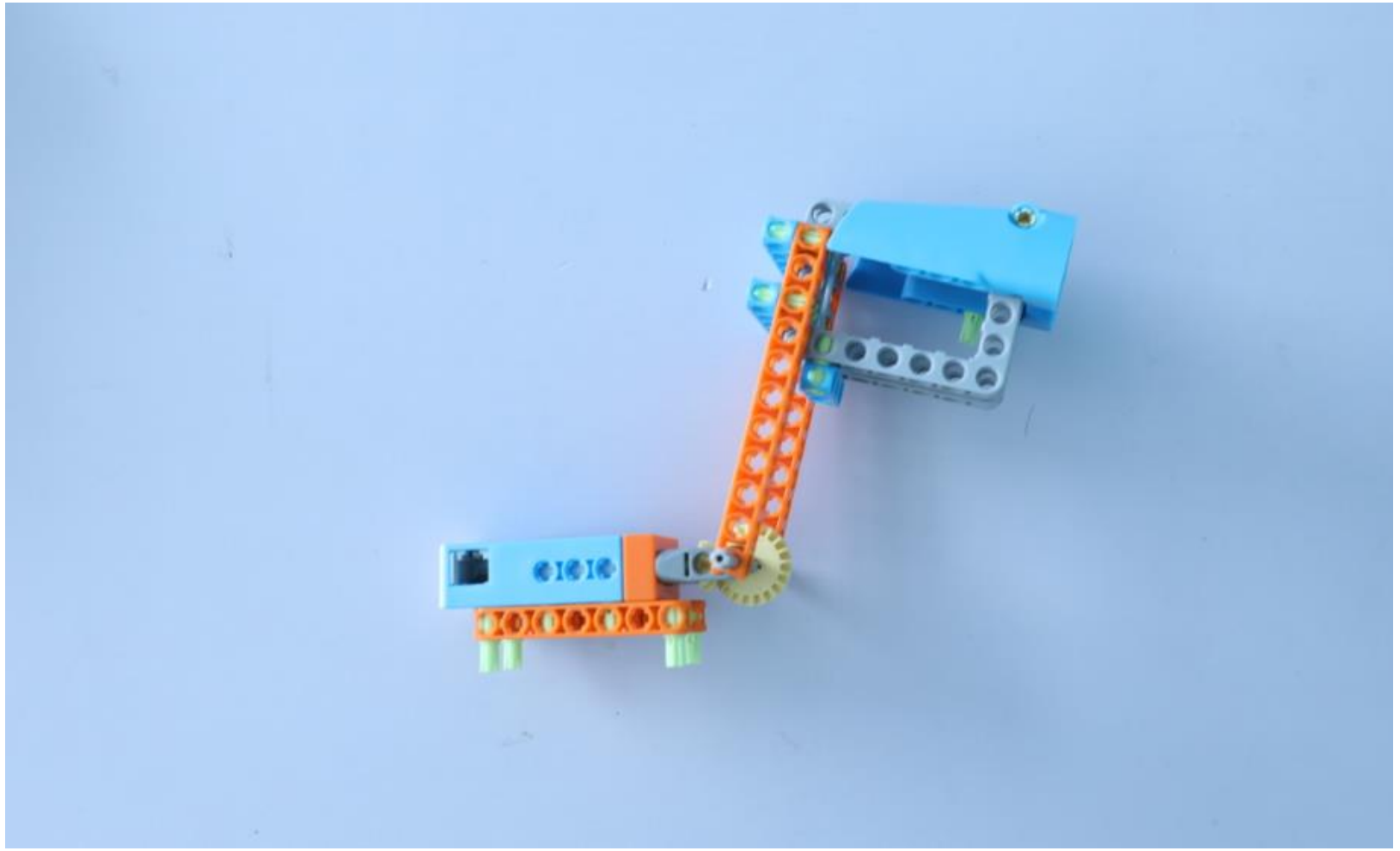

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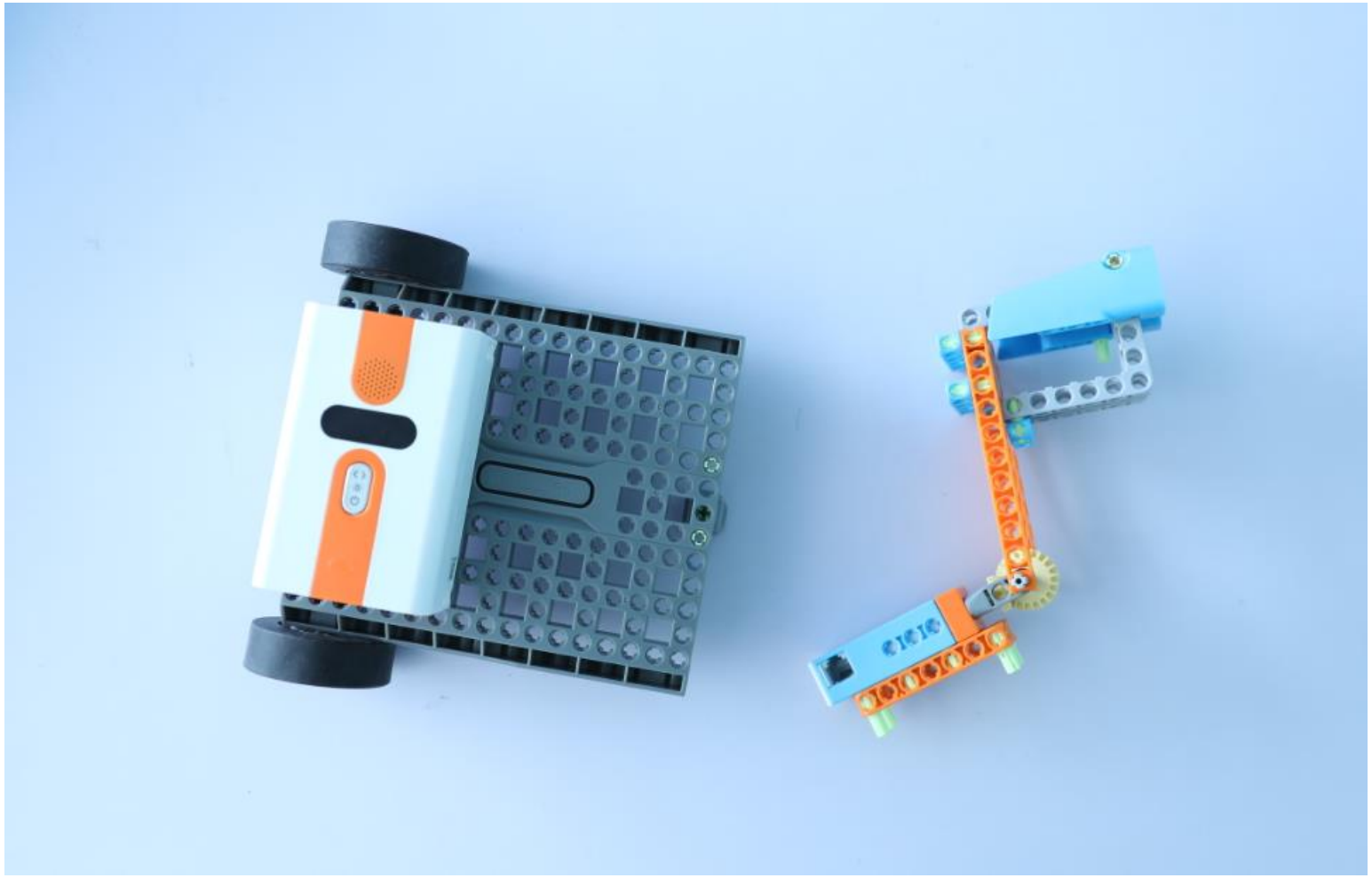

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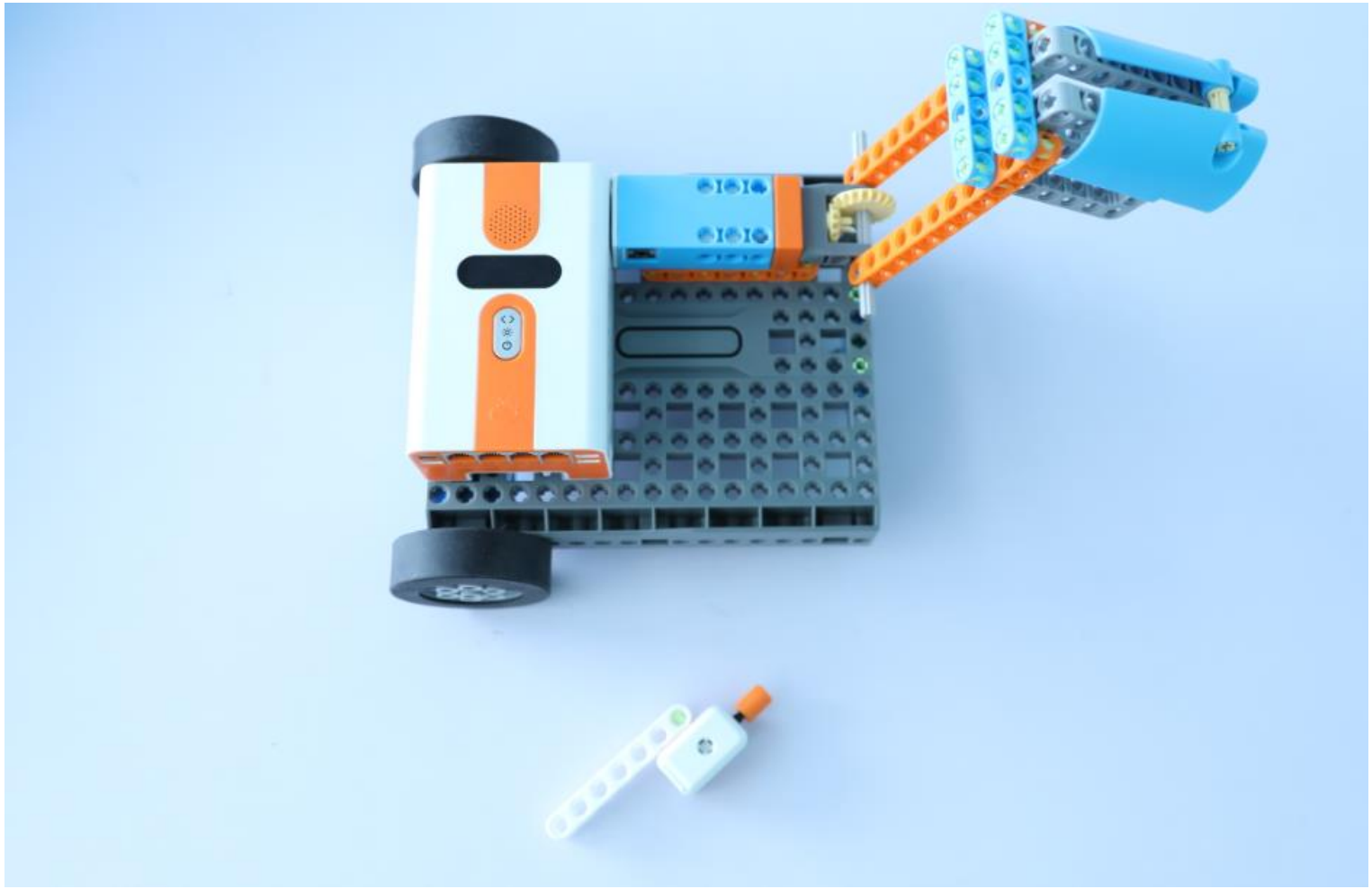

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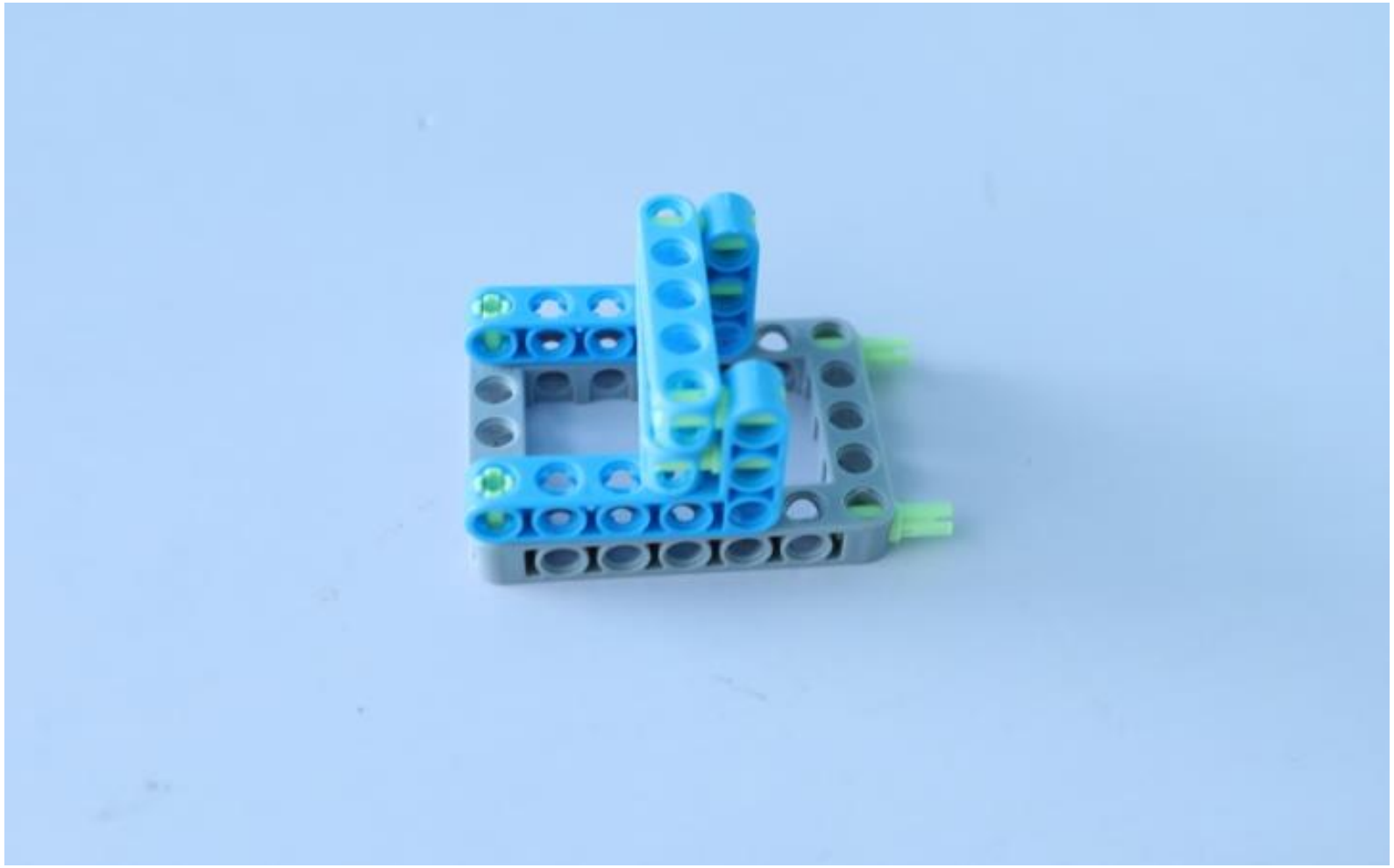

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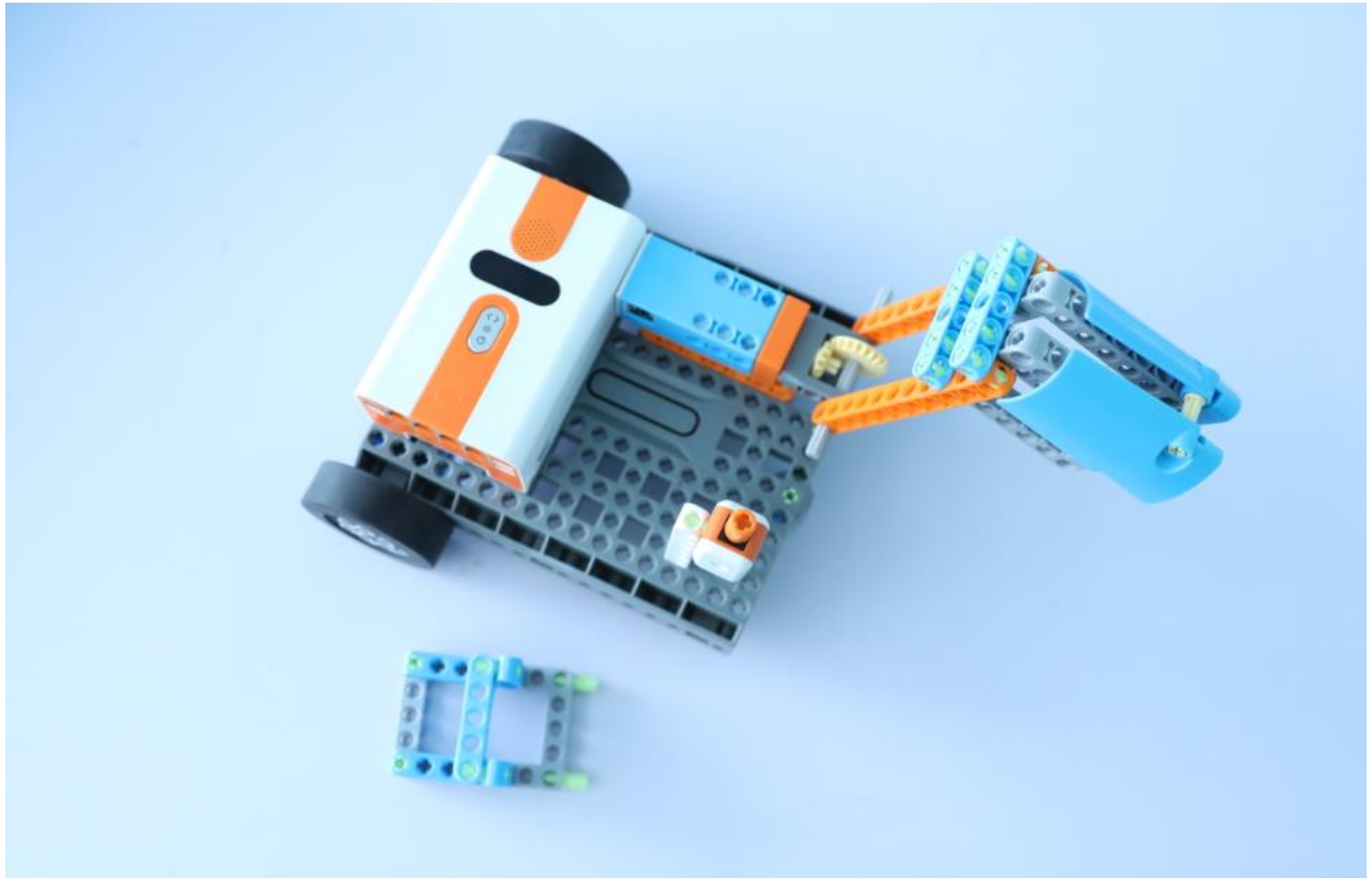

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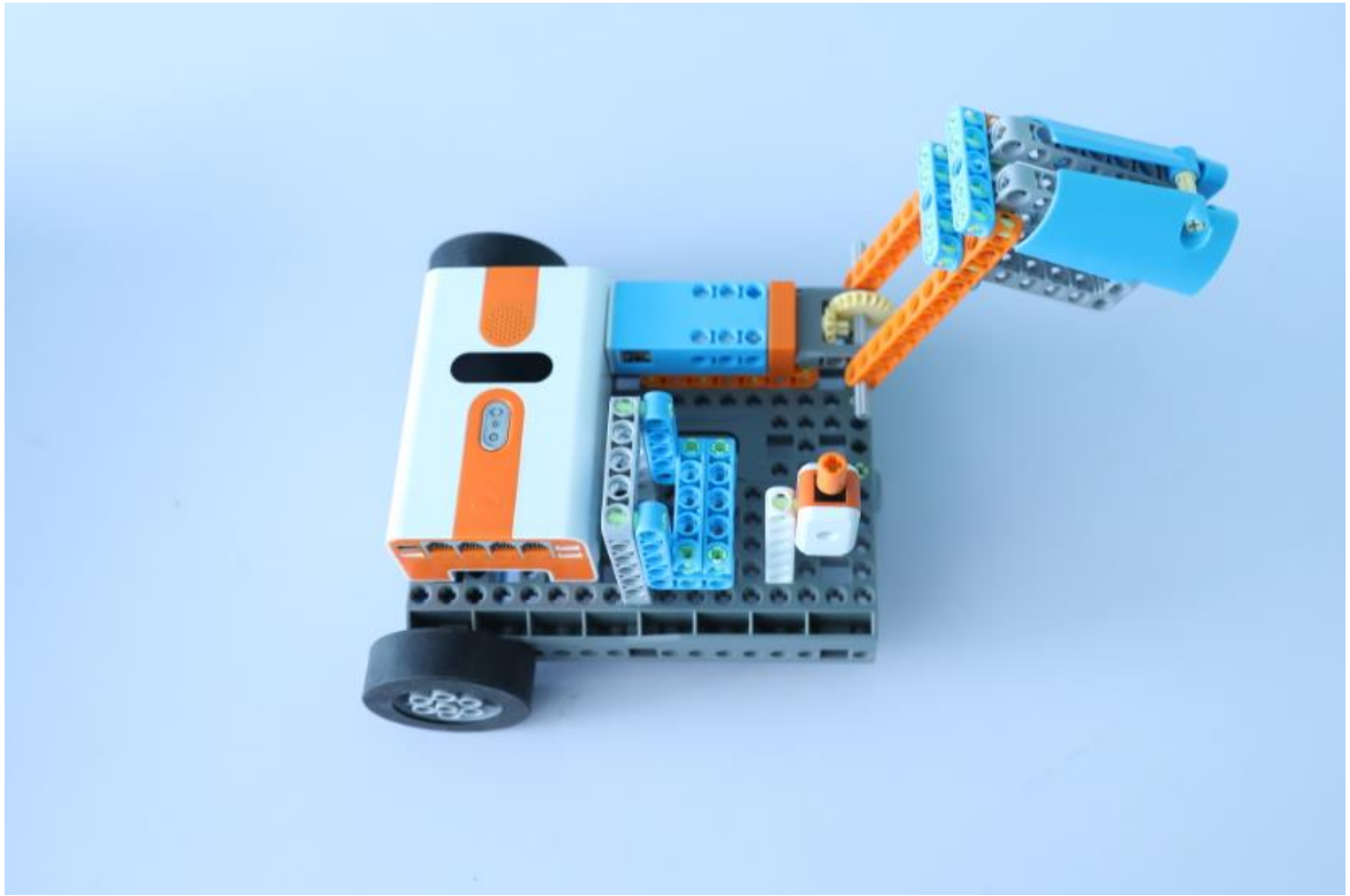

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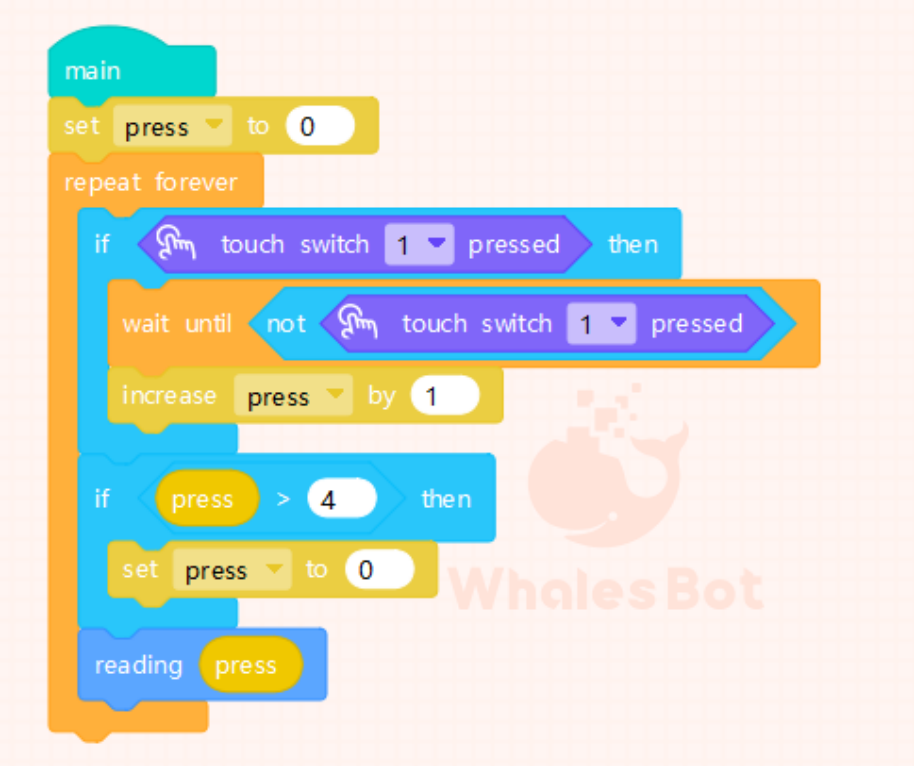
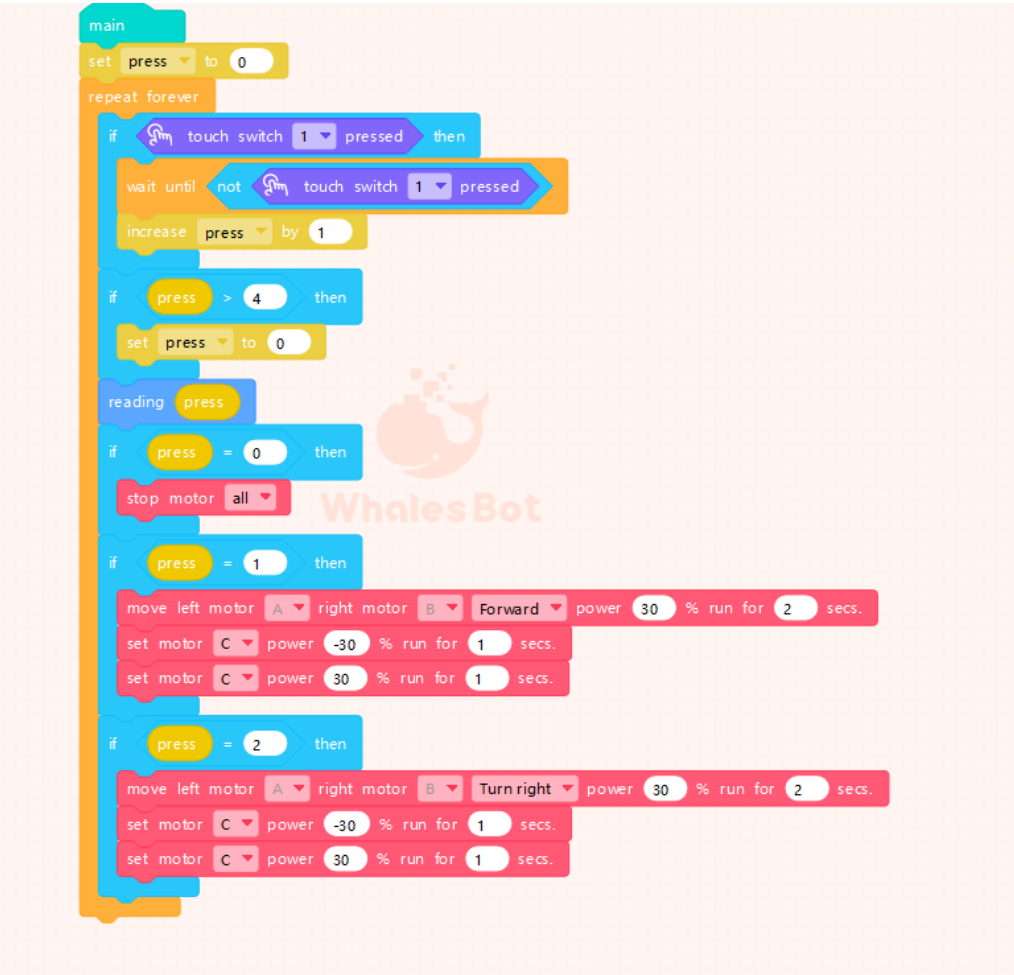


Task 1:

Please do the programming. In the program, first record the number of Touch Sensor presses, and display the number of presses through the display module.



4.Coding



Task 2:

When we press the Touch Sensor once, the robot moves forward and swings the hammer. When we press the Touch Sensor twice, the robot turns right and swings the hammer.



5.Evaluation

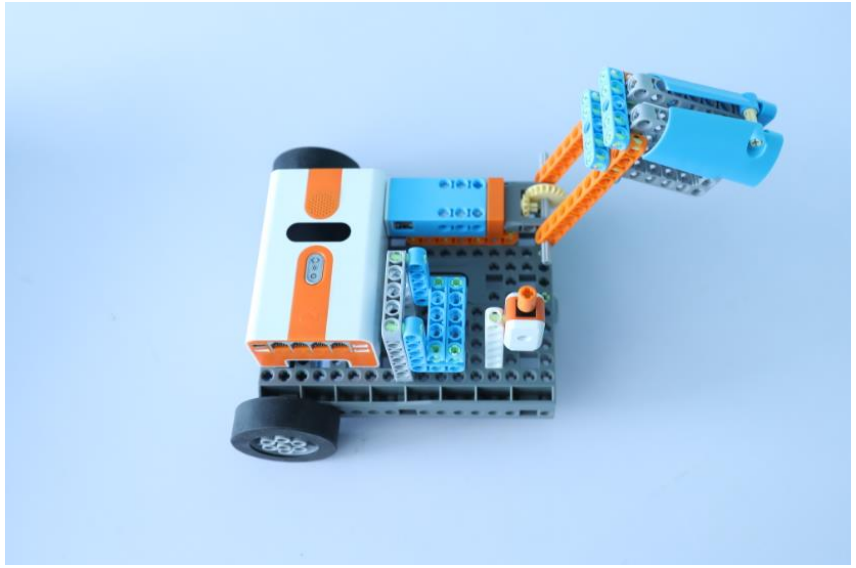
Our digital counter can count up to 4 times.

You can continue programming, when we press the Touch Sensor 3 times, the robot turns left and swings the hammer. When we press the Touch Sensor four times, the robot backs up and swings the hammer.





6.Show



You can have a match with your best friend to see who can hit each other first.