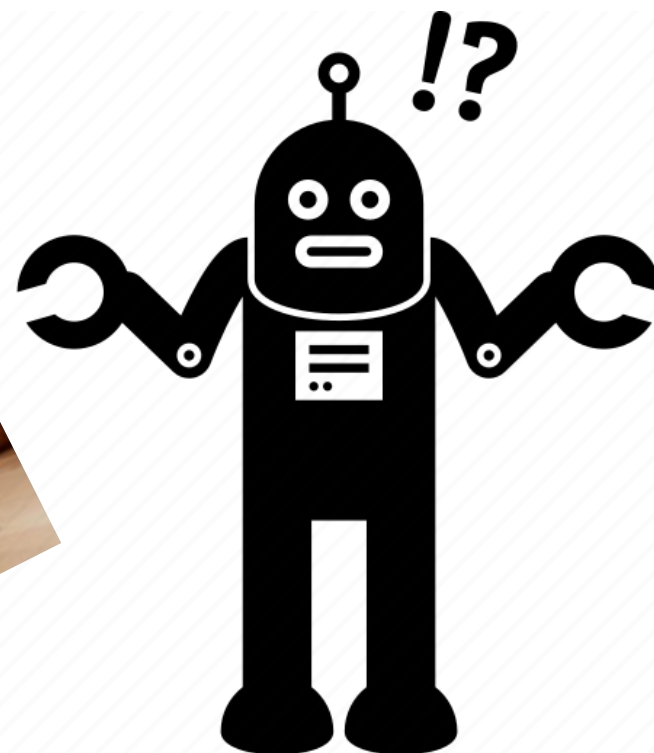




Инженери по автоматизацията



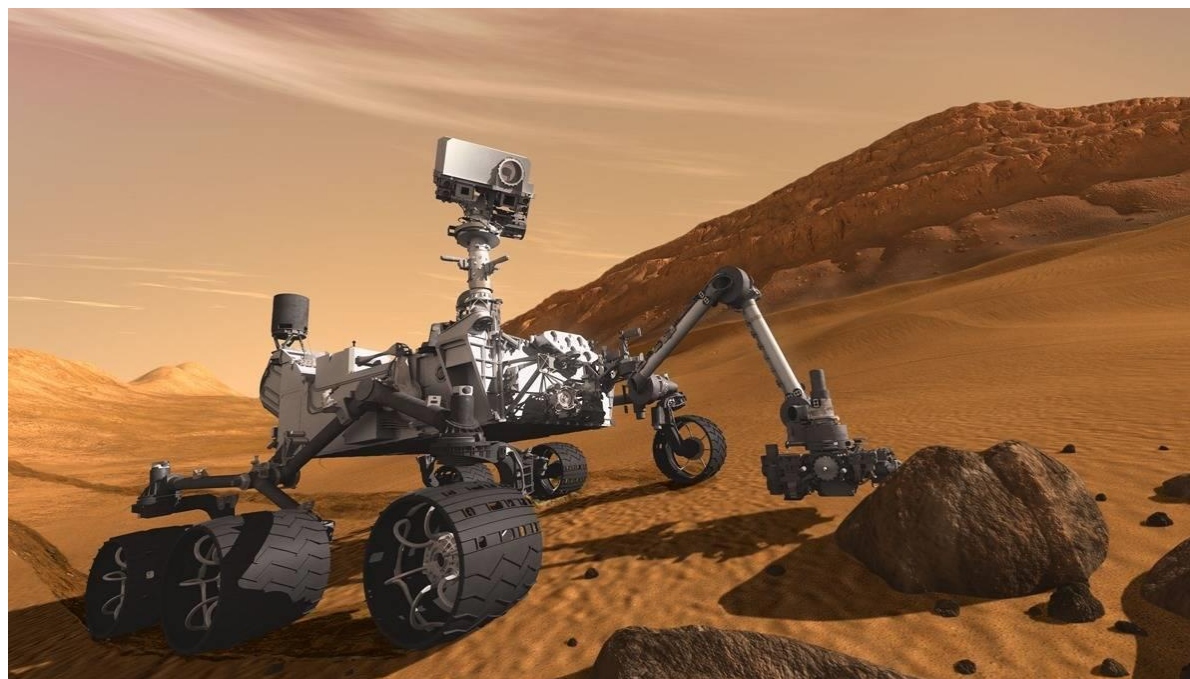
Какво е робот?



Роботите се използват: В индустрията



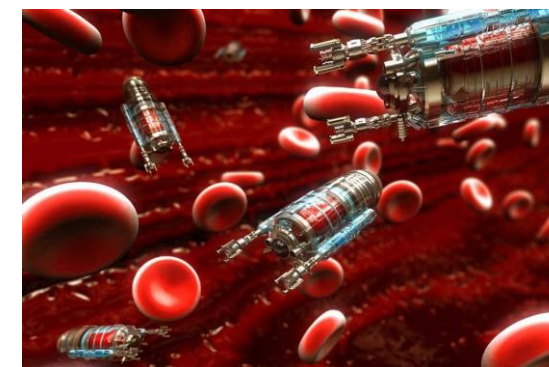
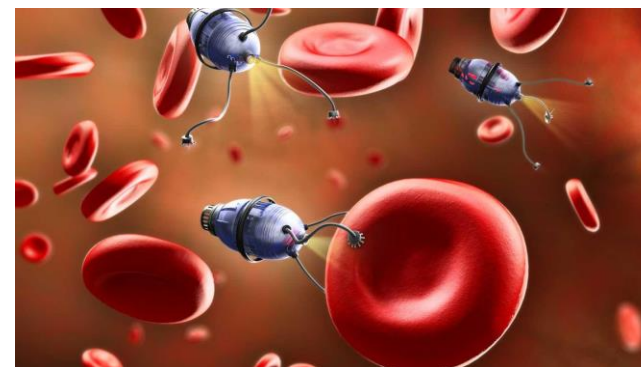
Роботите се използват: В мисии в космоса



Роботите се използват: В спасителни операции



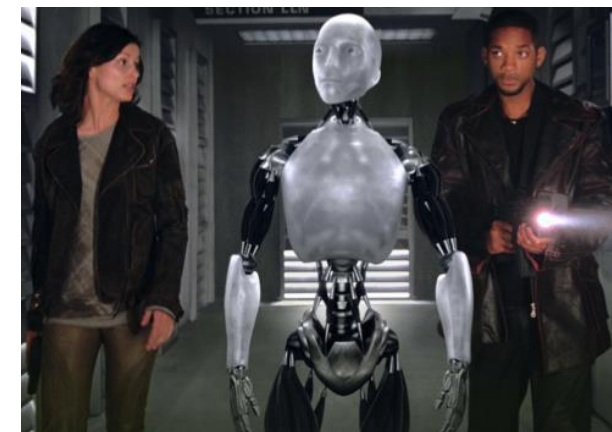
Роботите се използват: В медицината



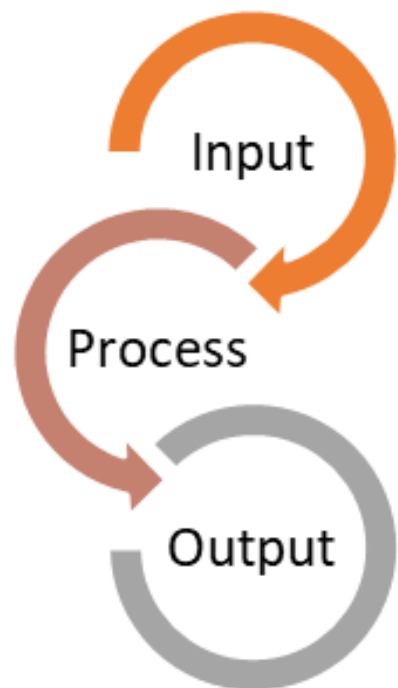
Роботите се използват: Вкъщи



Роботите се използват: Във филмите



Роботът е устройство, което съдържа много автоматизации.

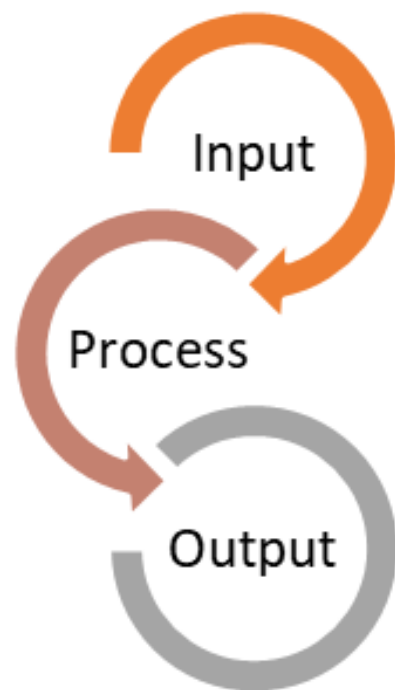


Всяка автоматизация се състои от три части:

- 1) **Вход:** информацията, въведена в системата чрез сензор (устройство, което записва всяка промяна в околната среда) **ПРИЧИНА**
- 2) **Процес:** процесът на разсъждение, който използва информацията от входа, за да достигне до реакция
- 3) **Изход:** изпълнение на реакцията **РЕЗУЛТАТ**

Можете ли да намерите някаква прилика между това и начина, по който хората реагират на стимули?

Роботите имитират хората: Биомимикрия.



1) Вход	
2) Процес	
3) Изход	

Отворете кутиите



Хъб

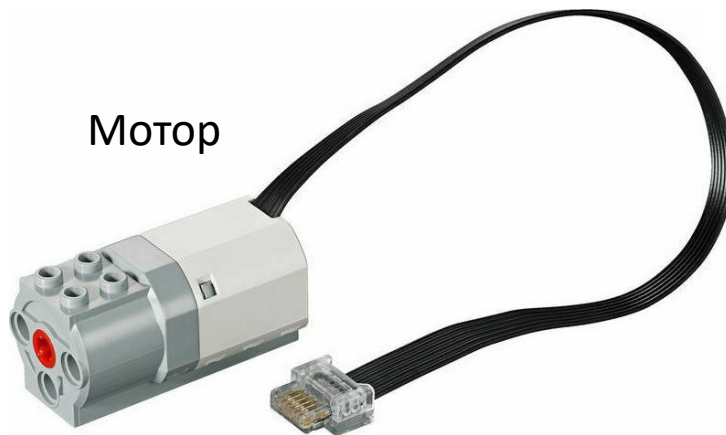
Сензор за дистанция



Сензор за наклон



Мотор



Самолетите винаги
летят в
атмосферата, нали?

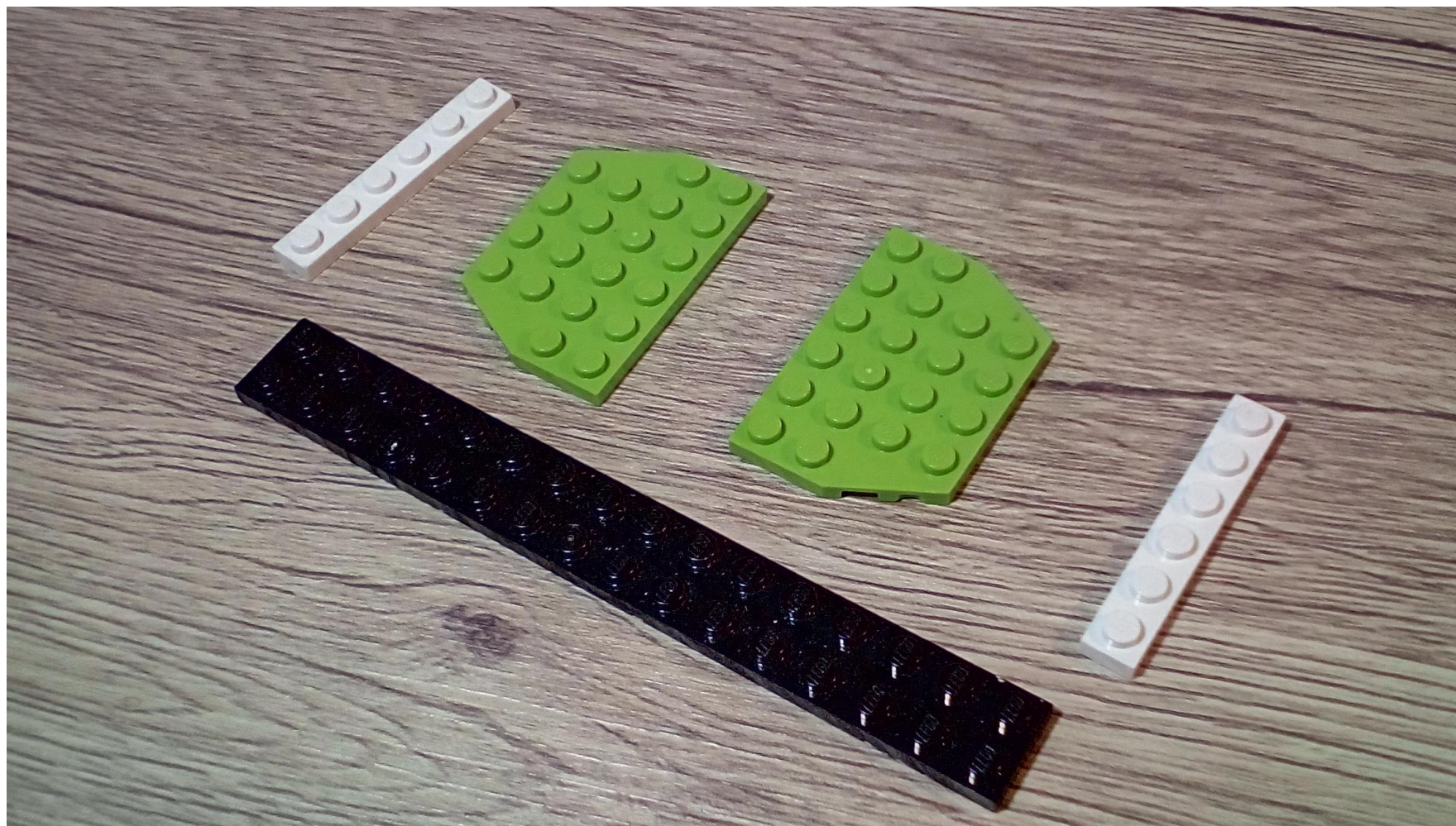
Да!

Можем ли да видим
как атмосферният
въздух влияе на
движението на
самолета?

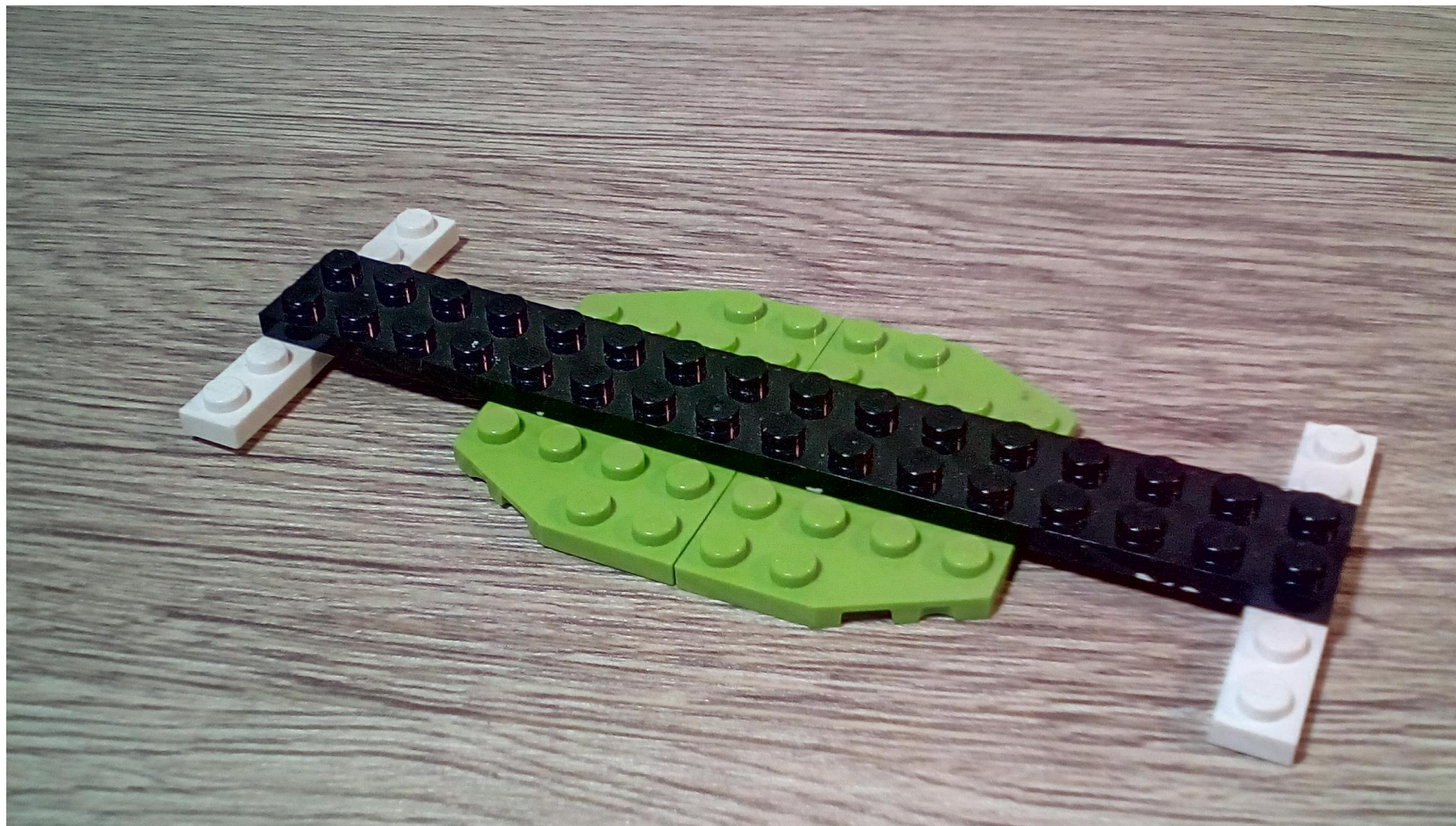
Да! Можем да
построим самолет,
който се върти
заради въздуха!



1



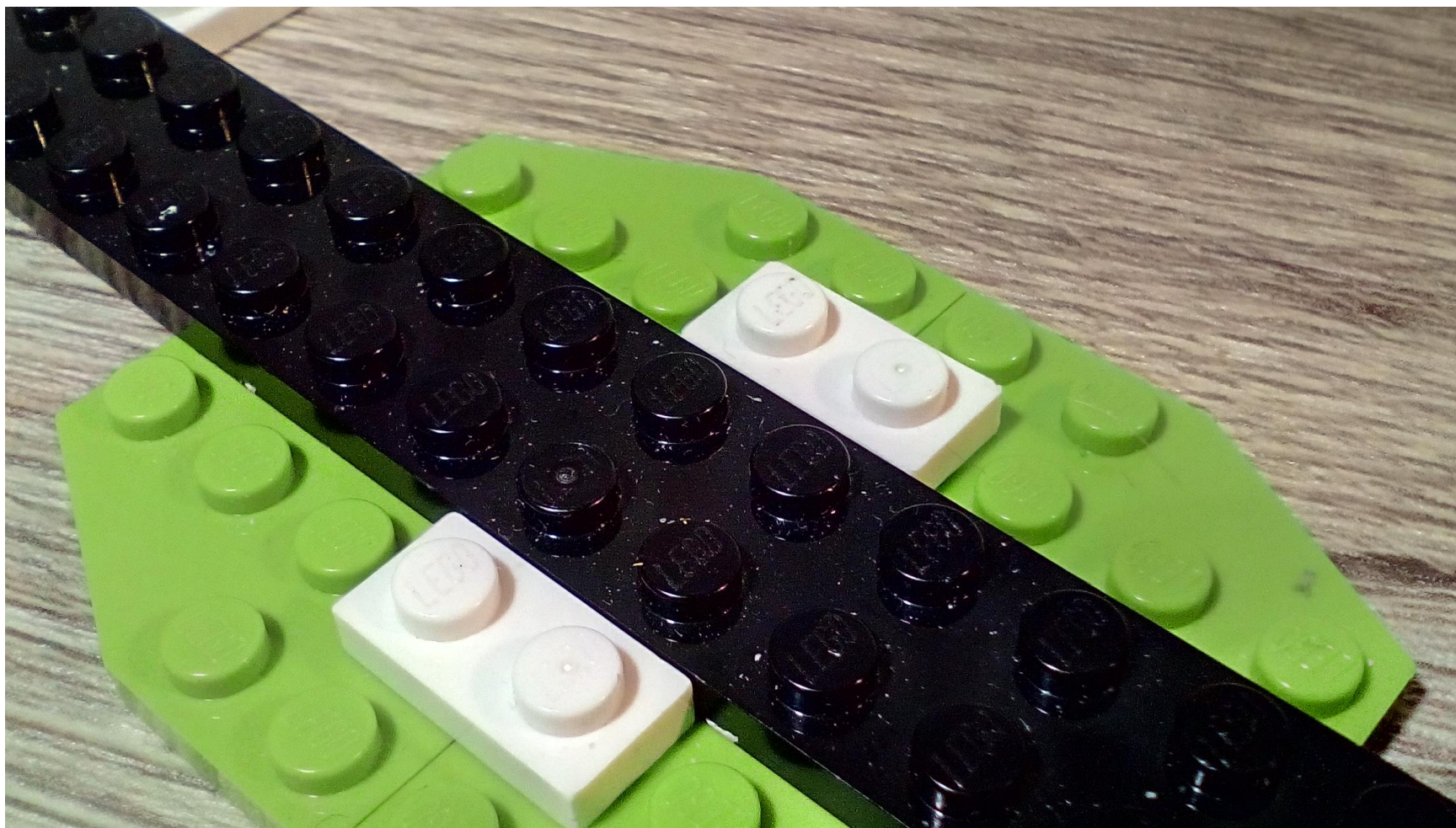
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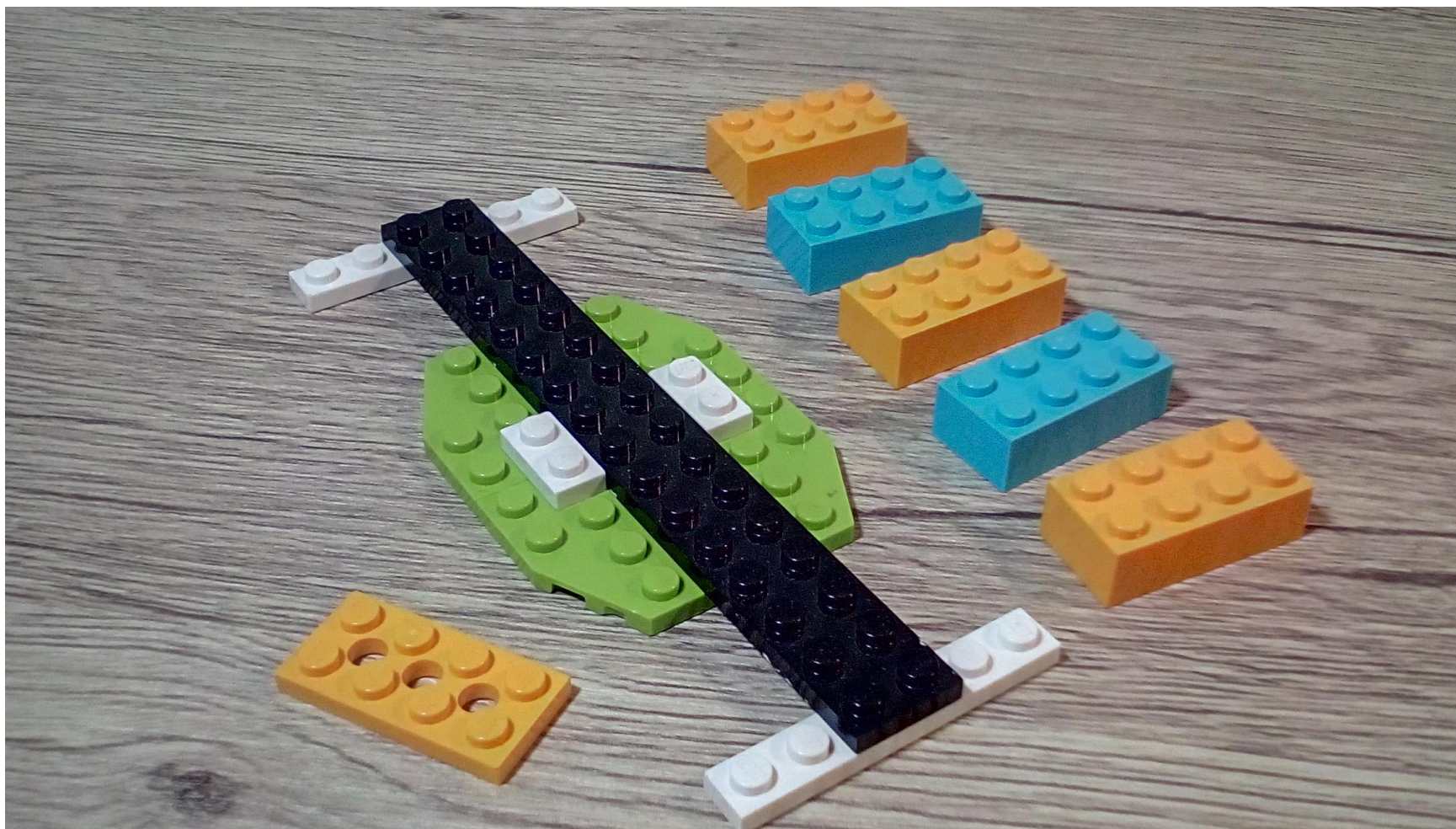
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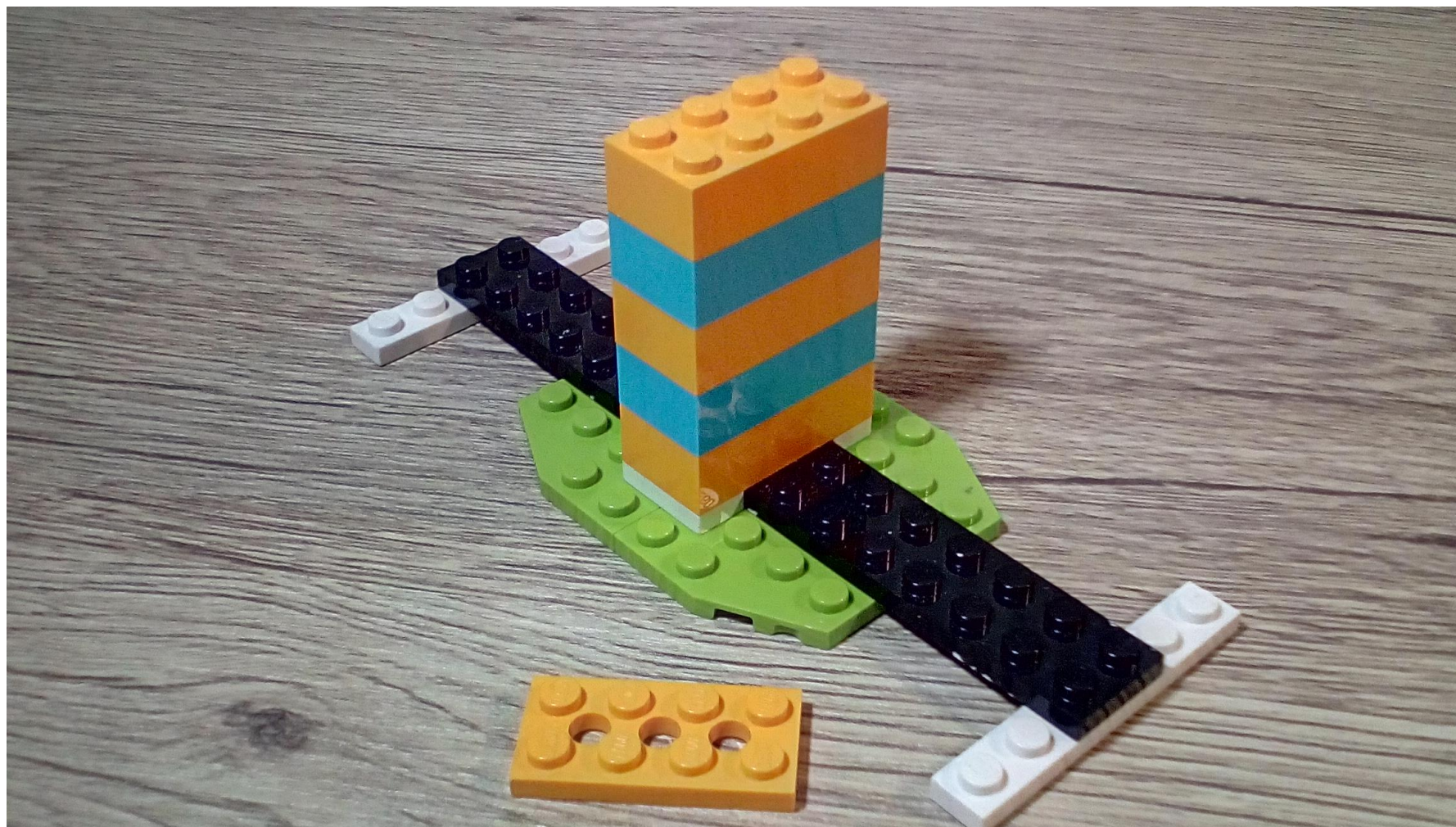
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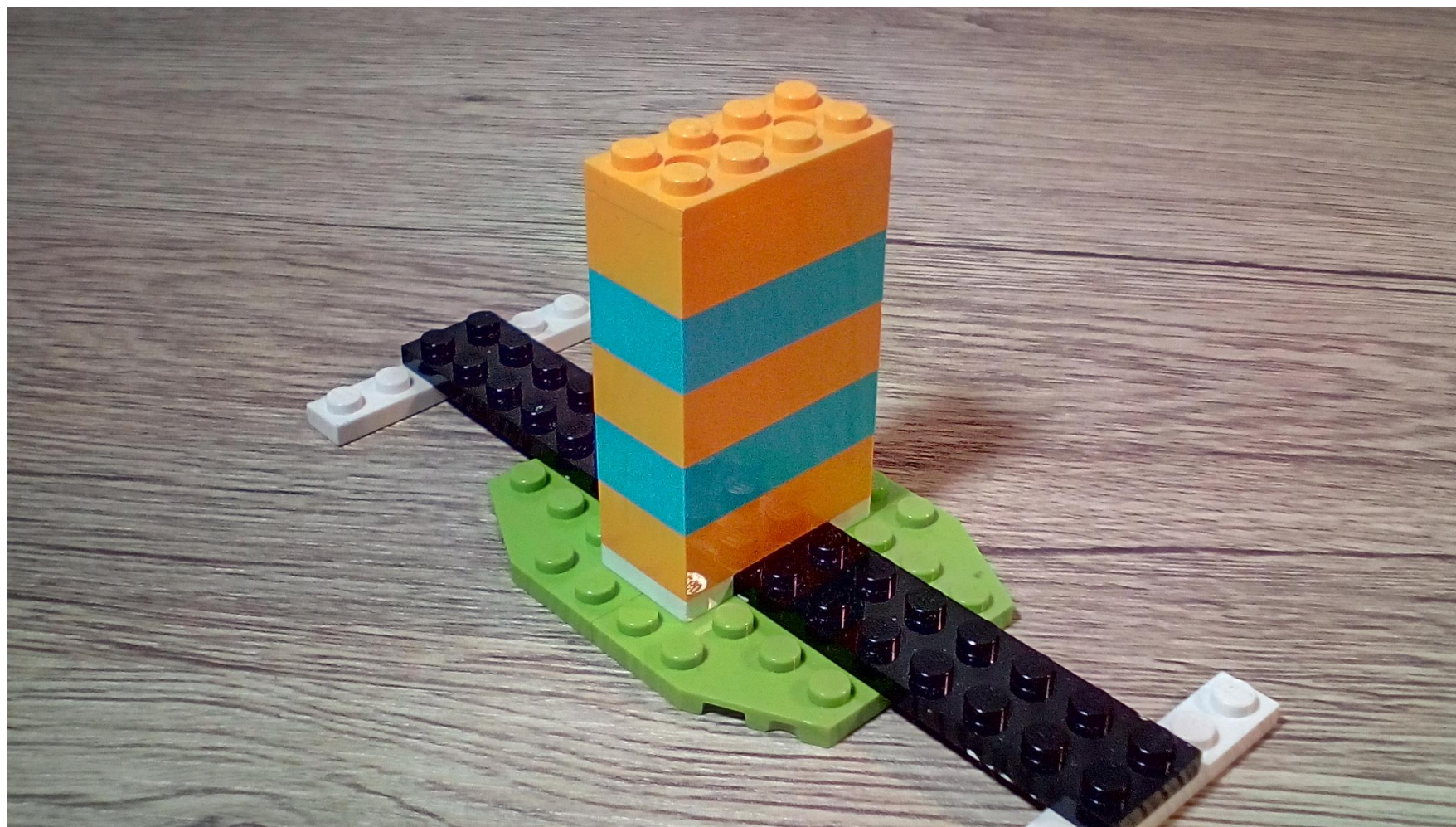
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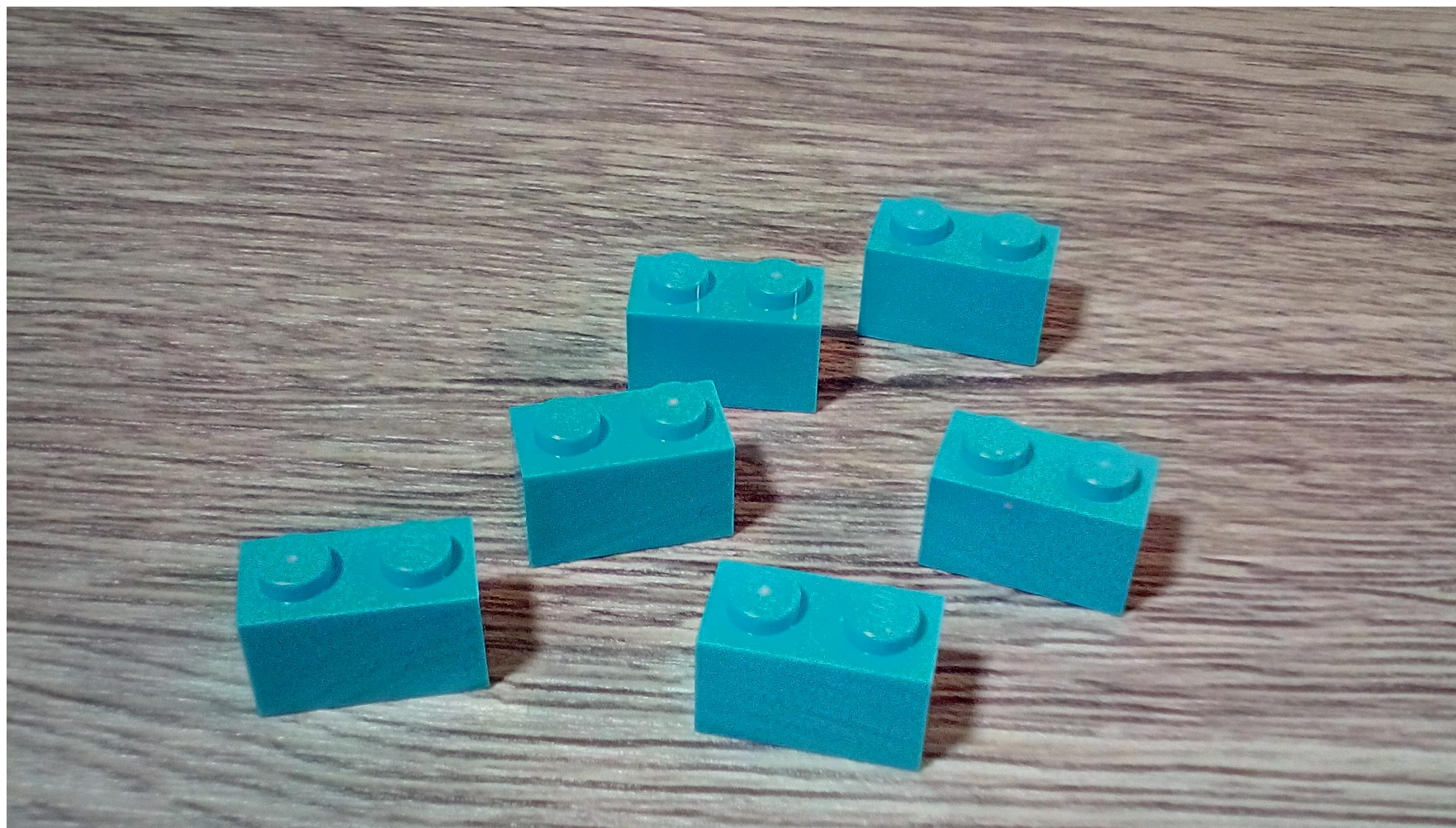
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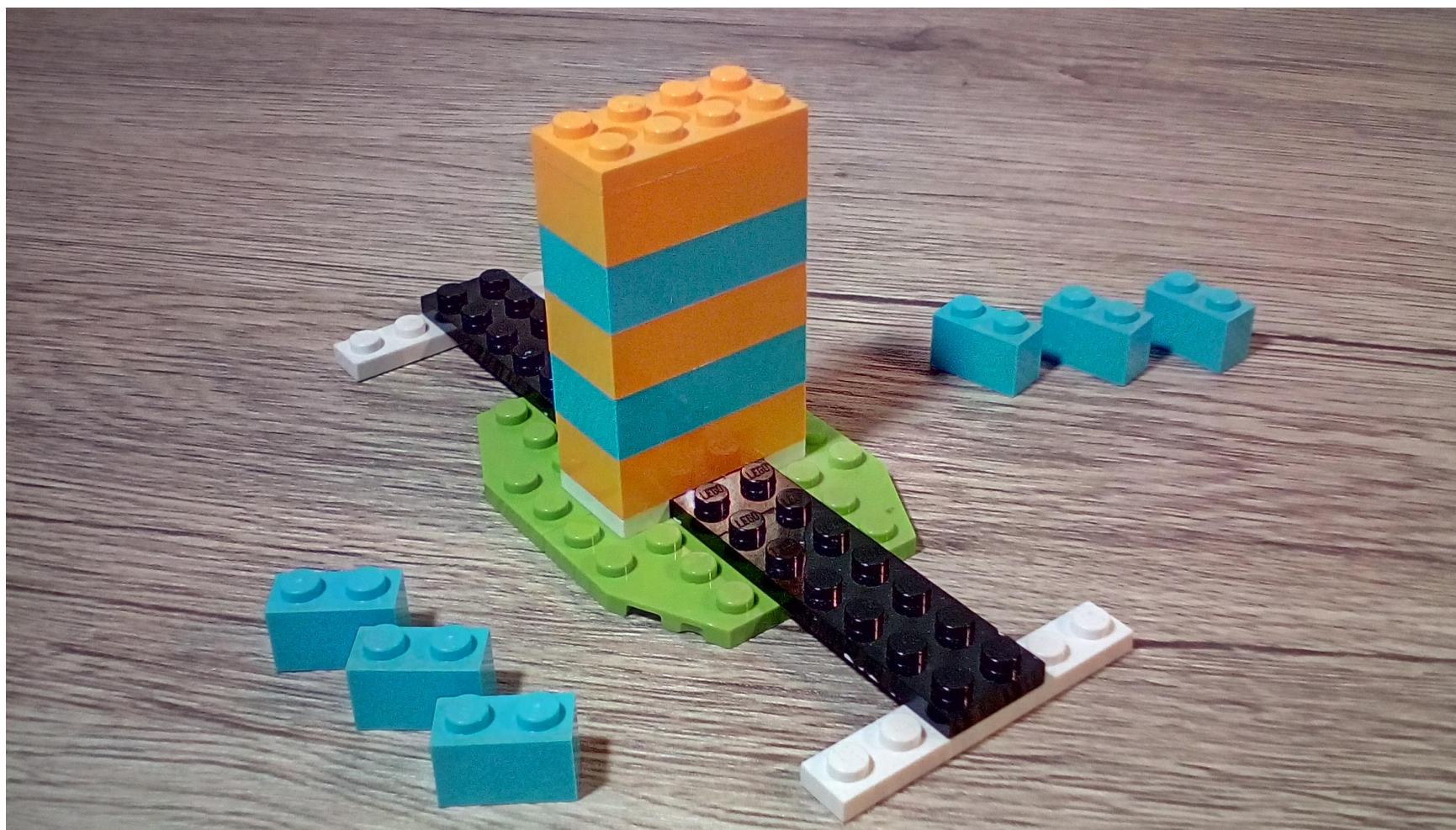
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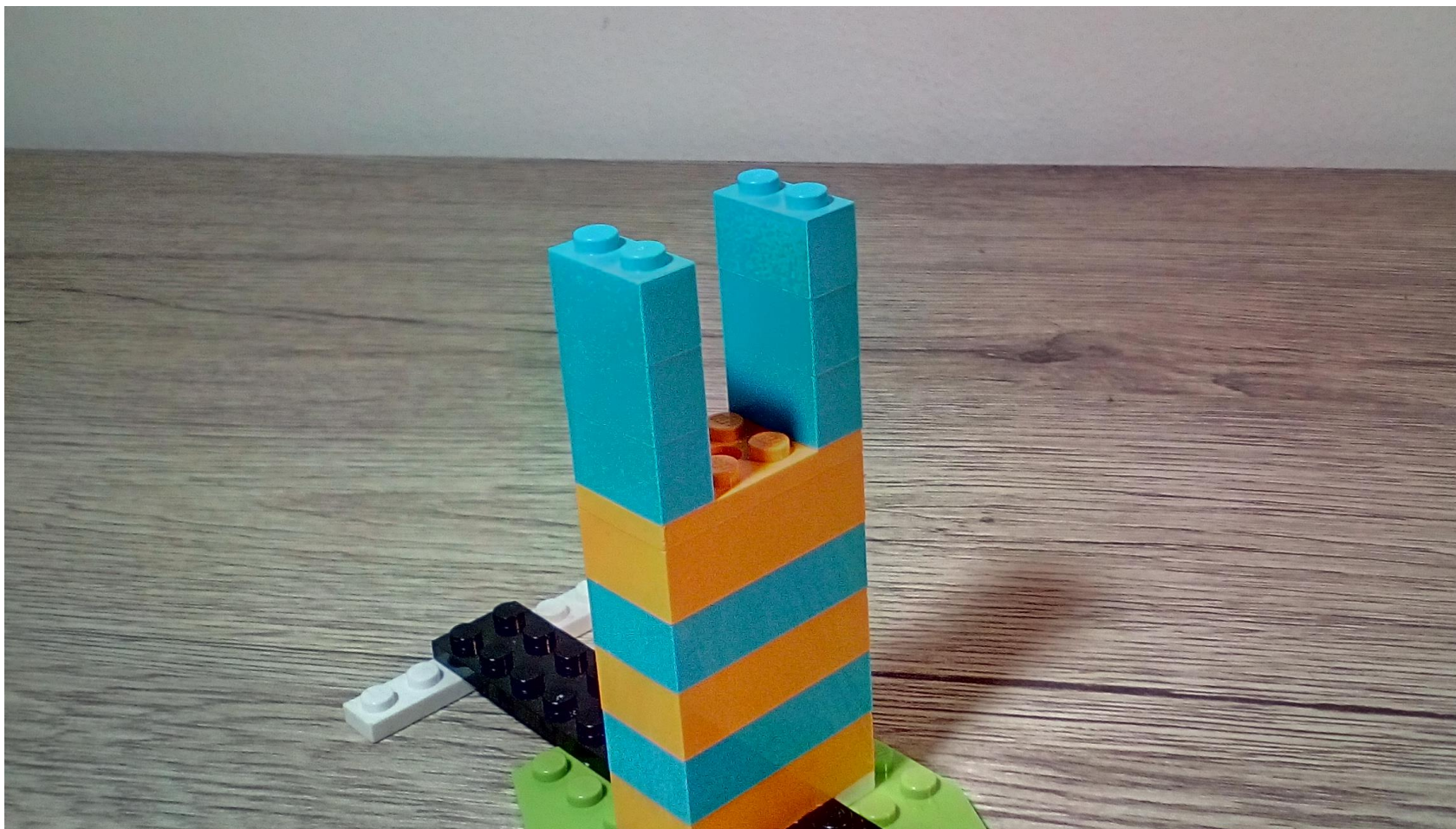
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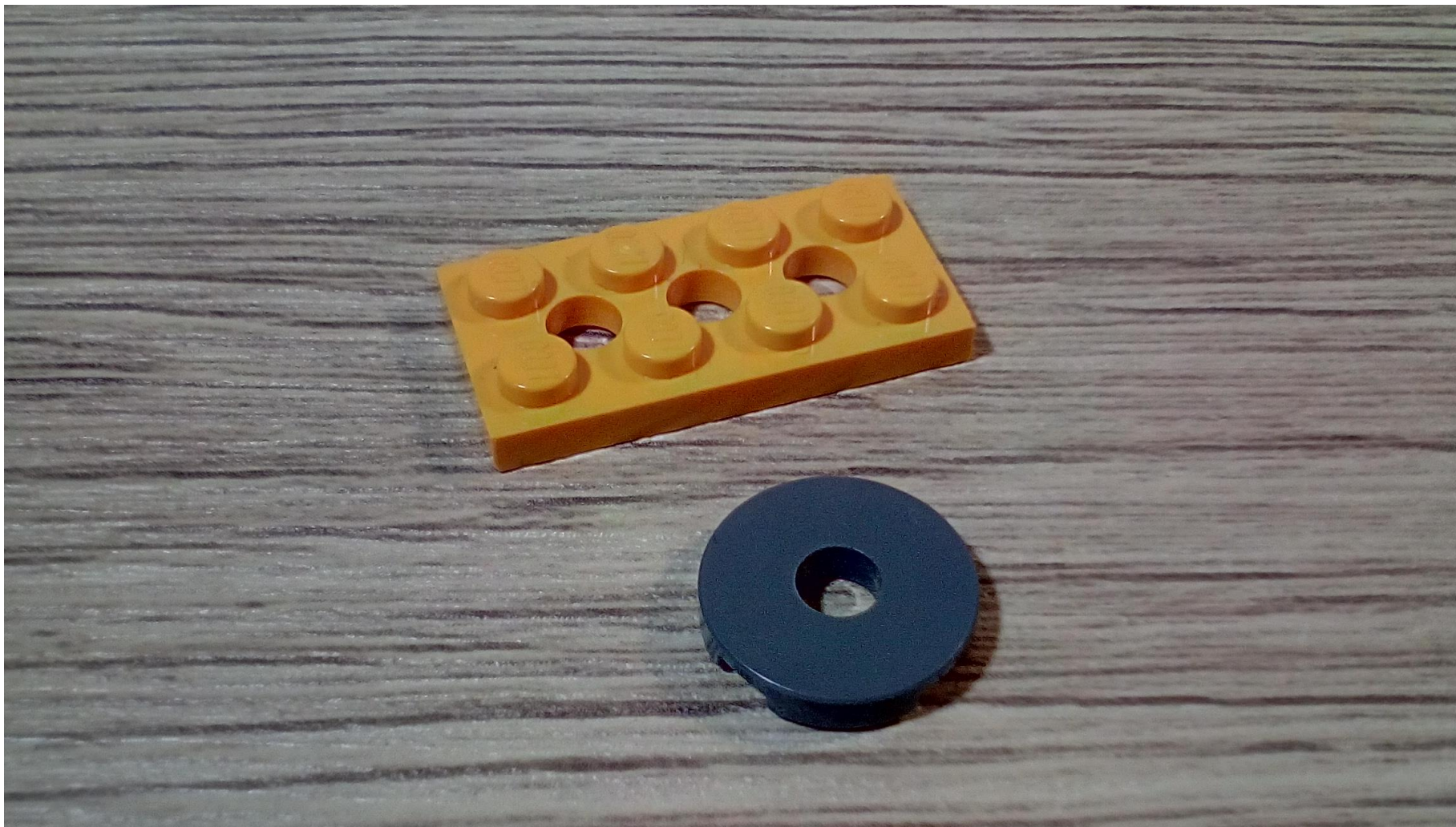
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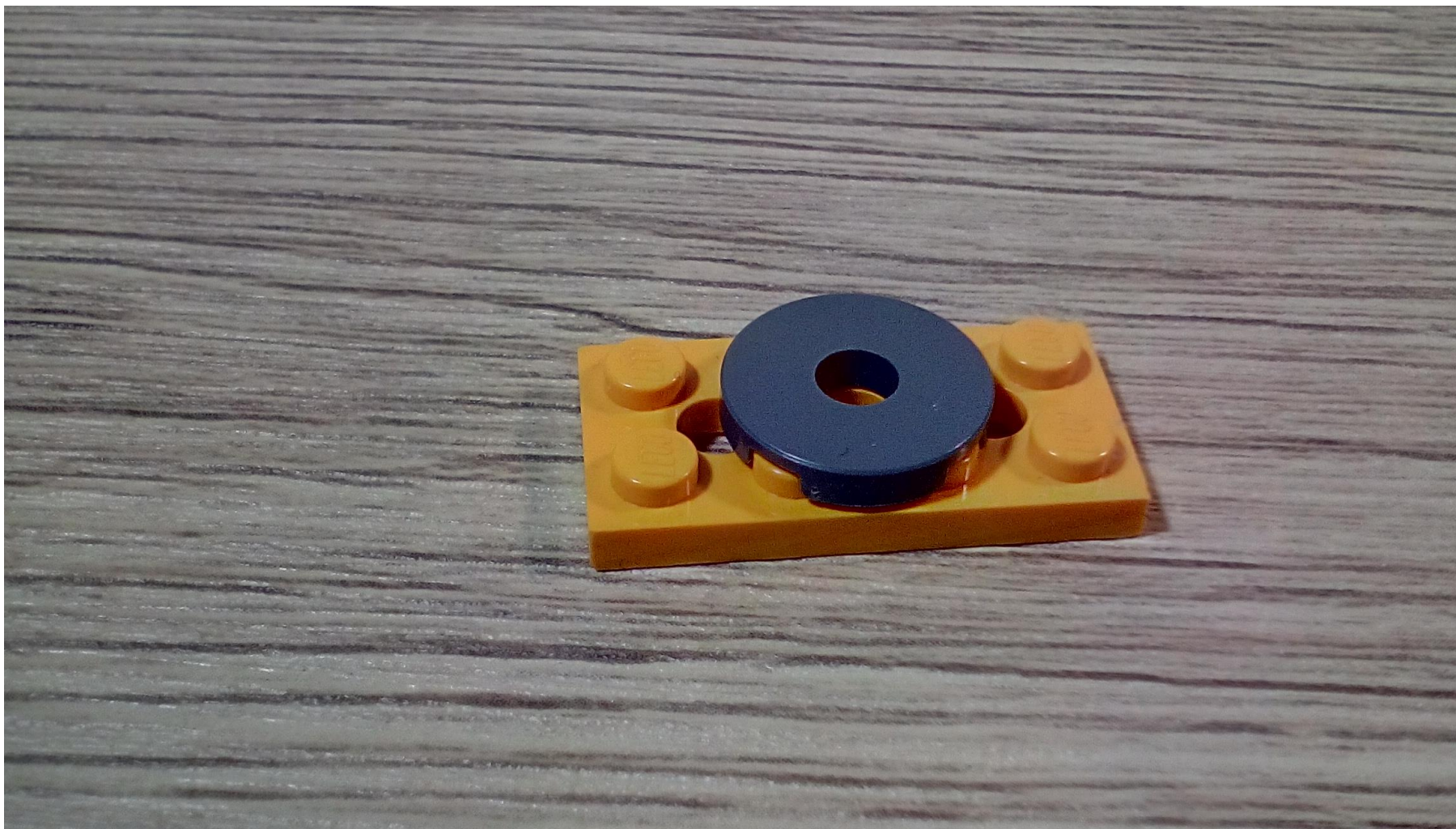
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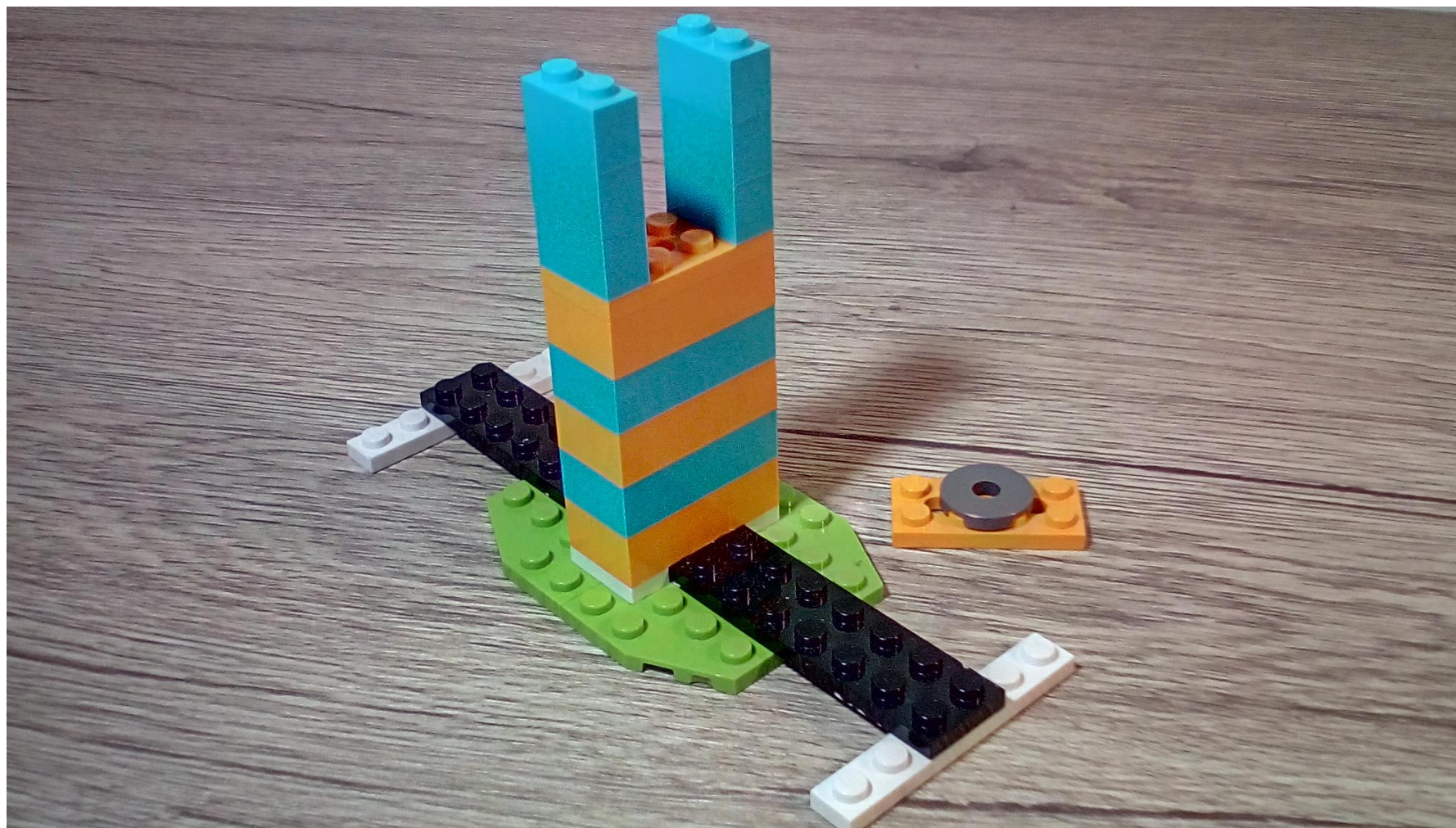
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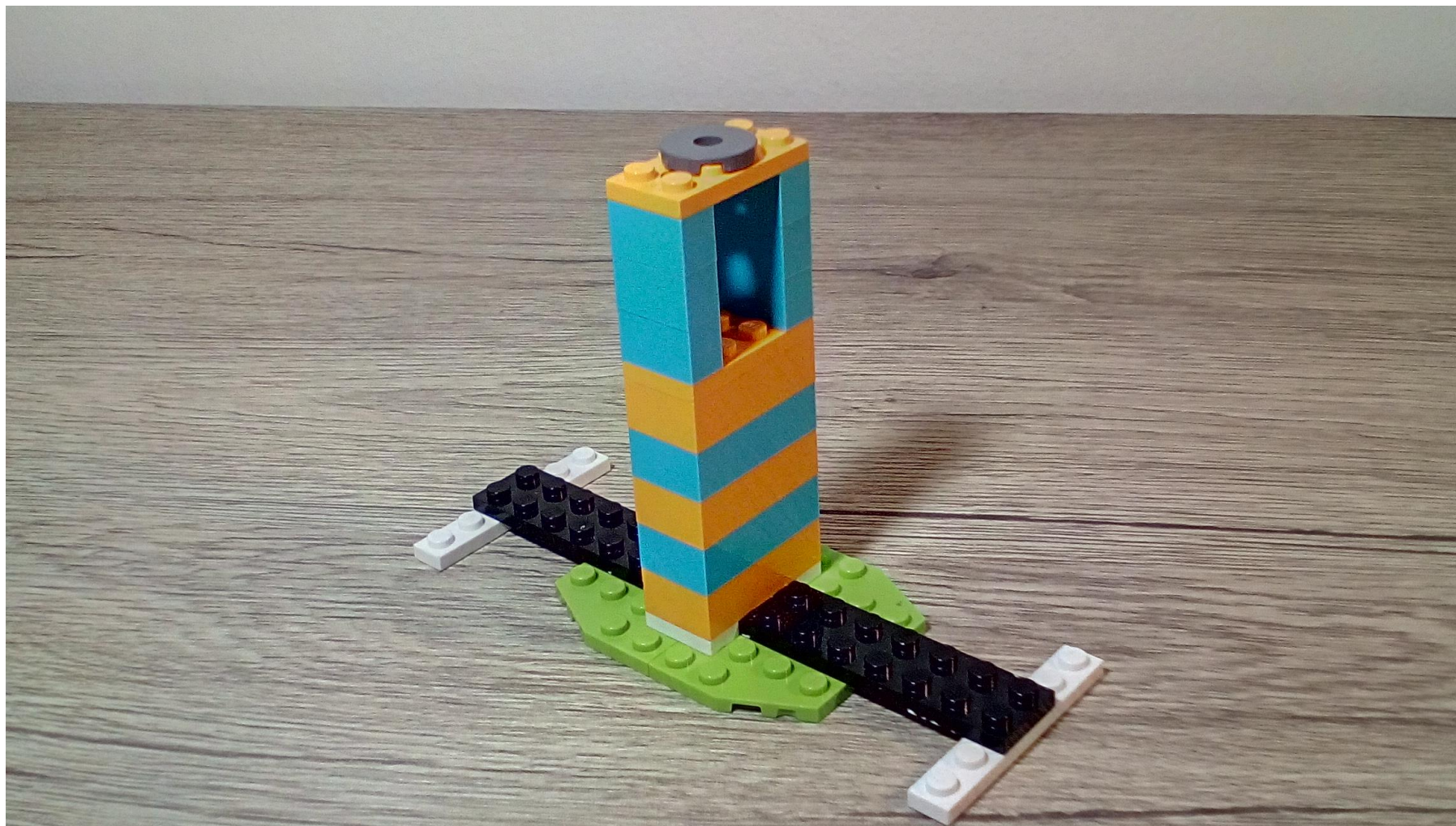
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13



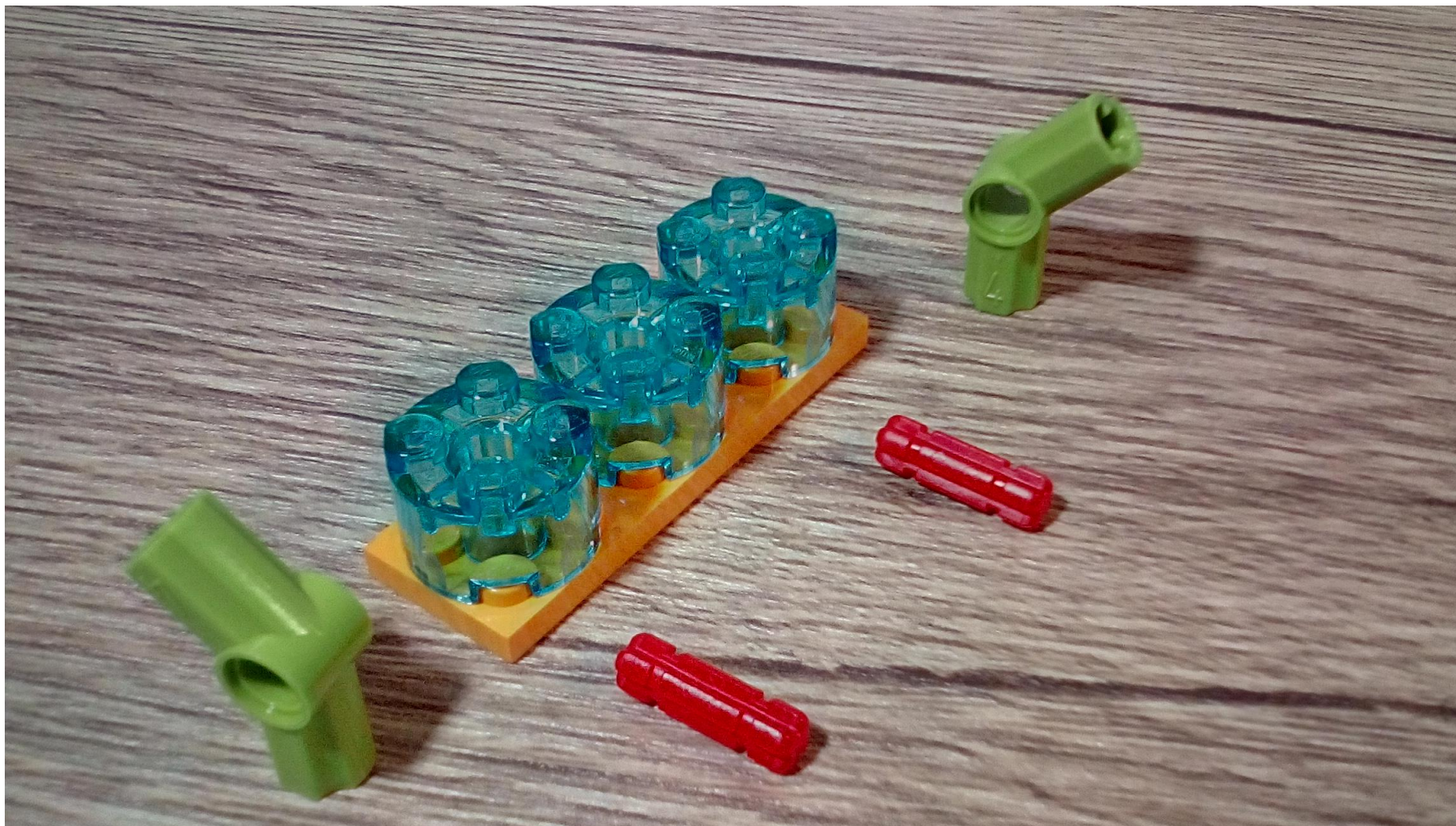
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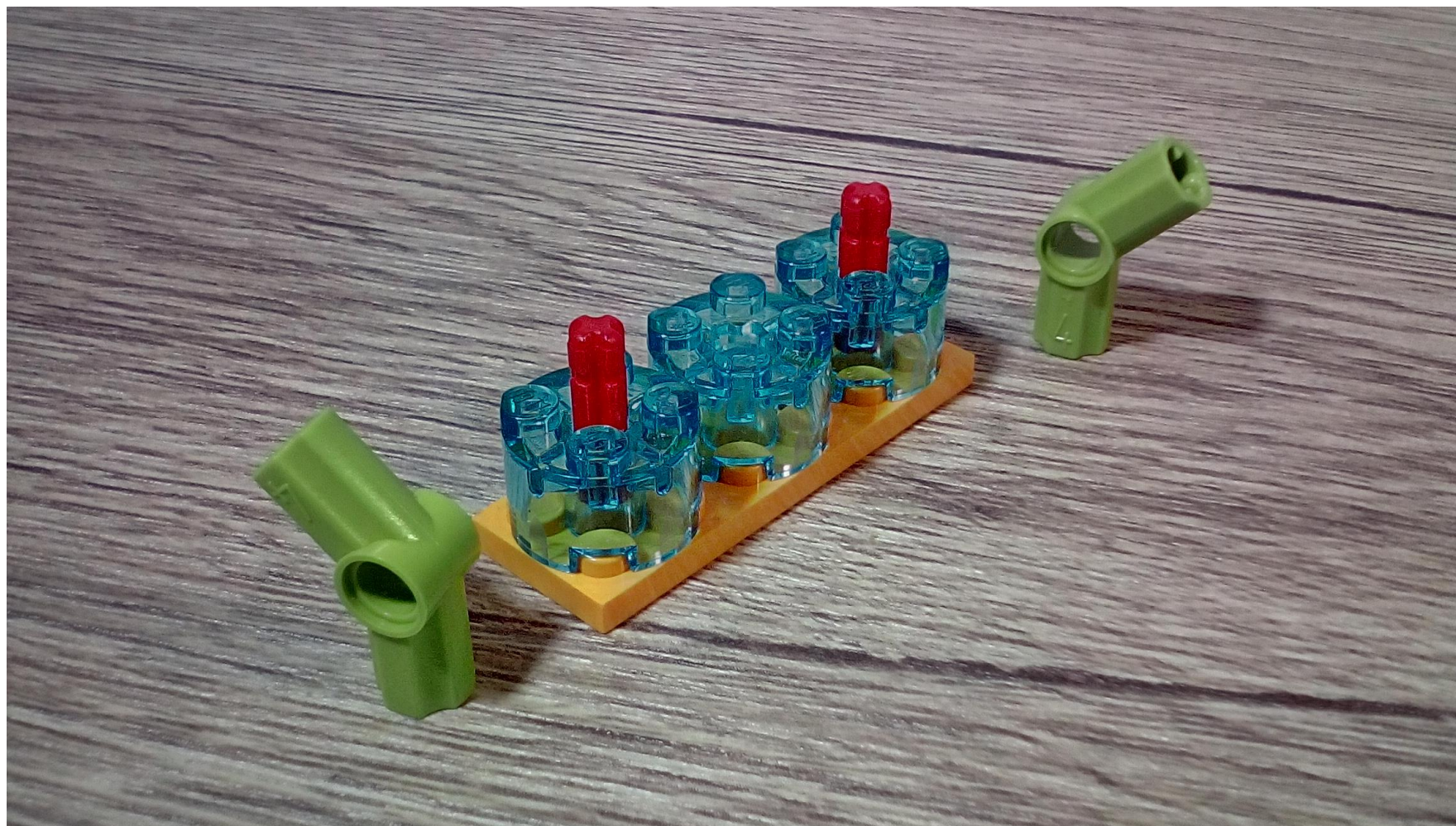
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16



17



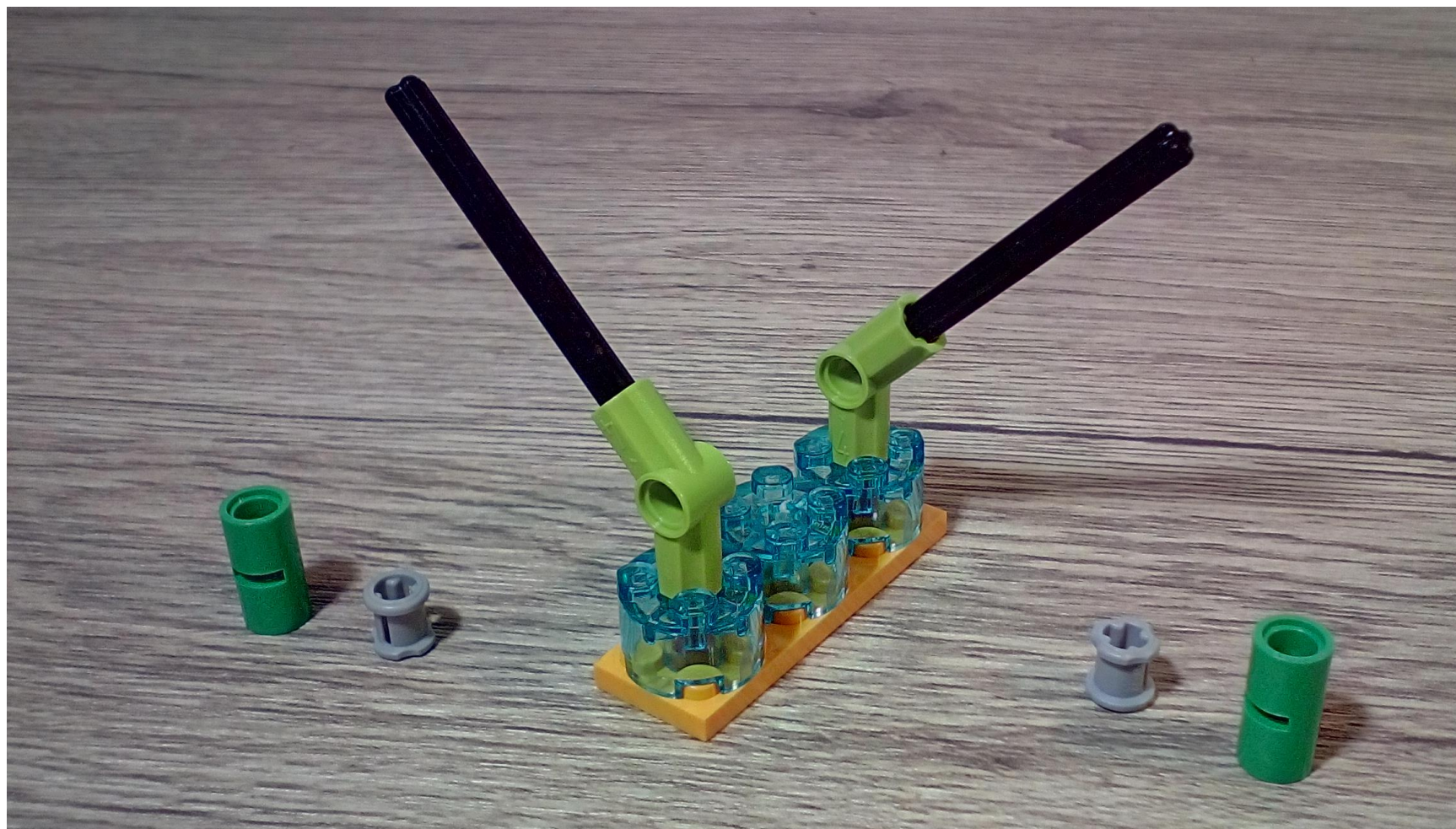
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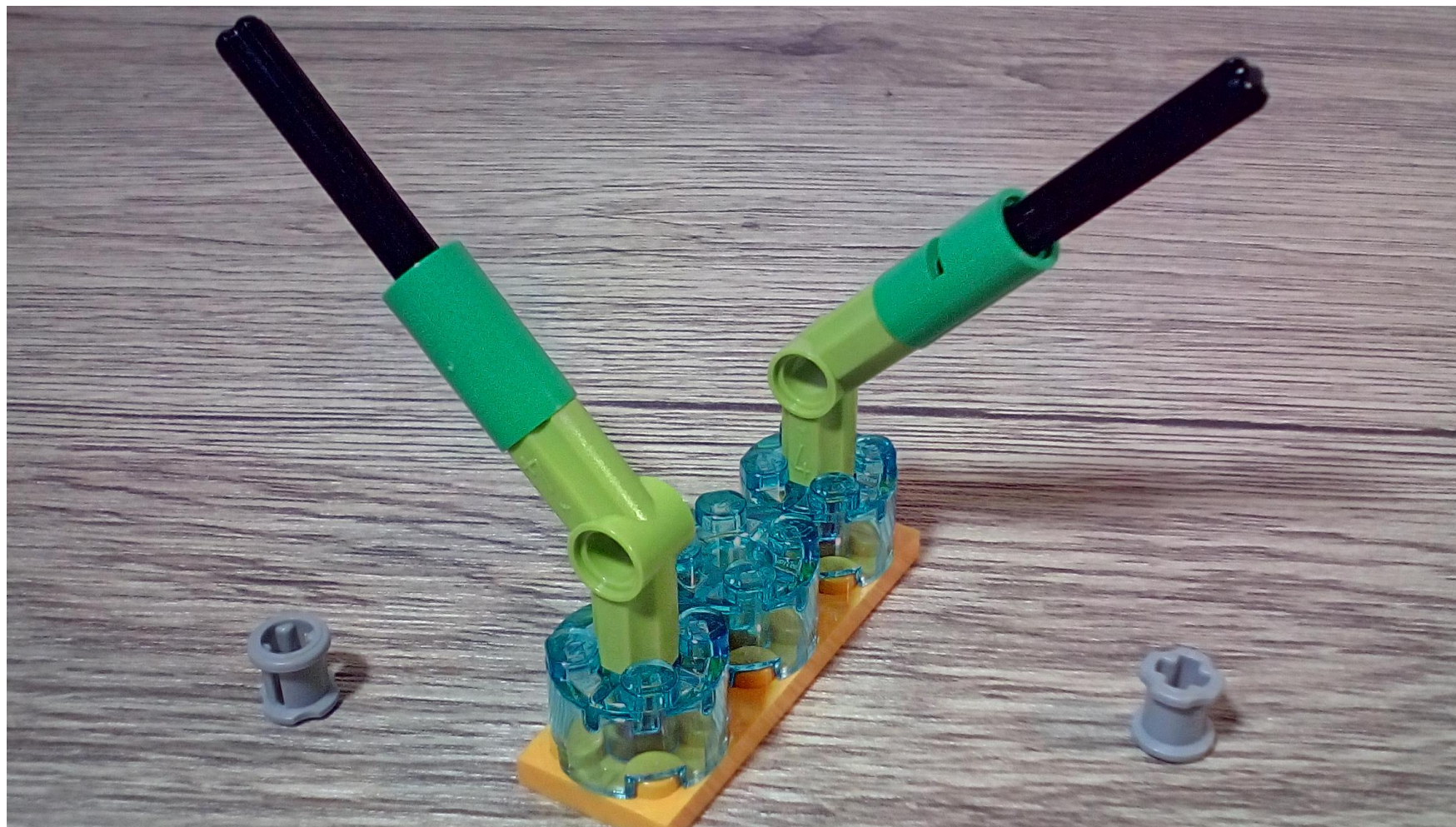
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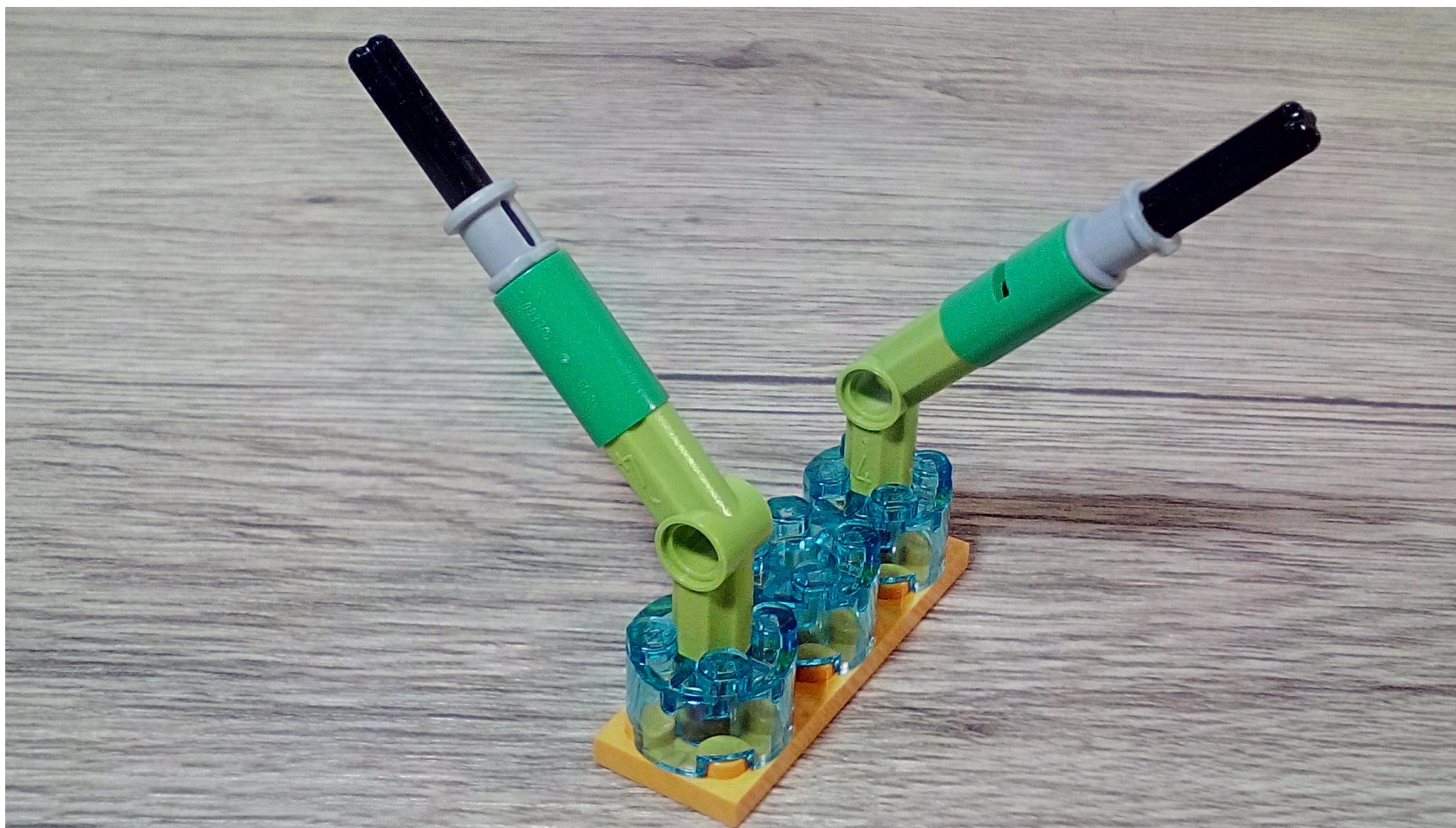
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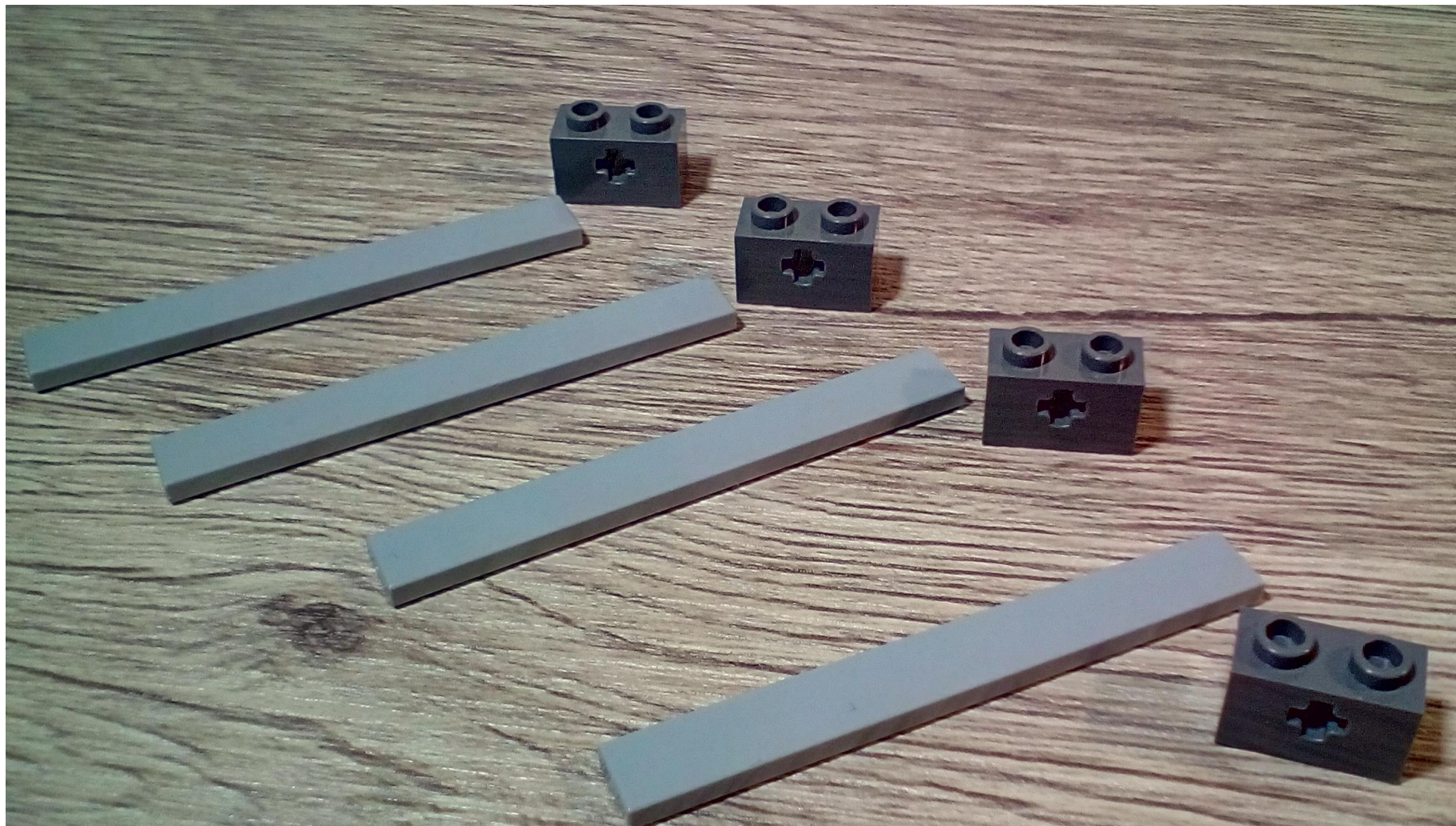
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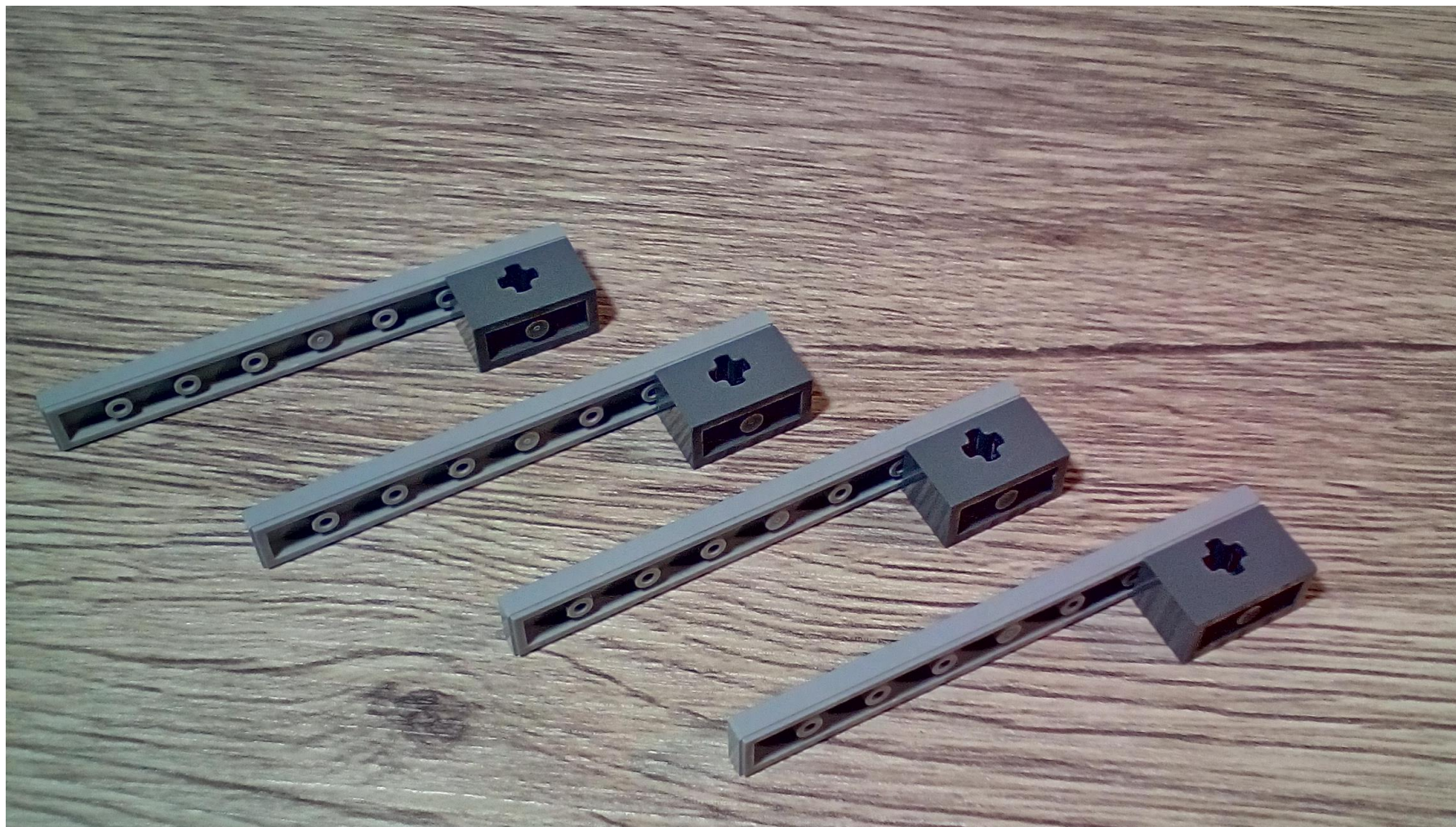
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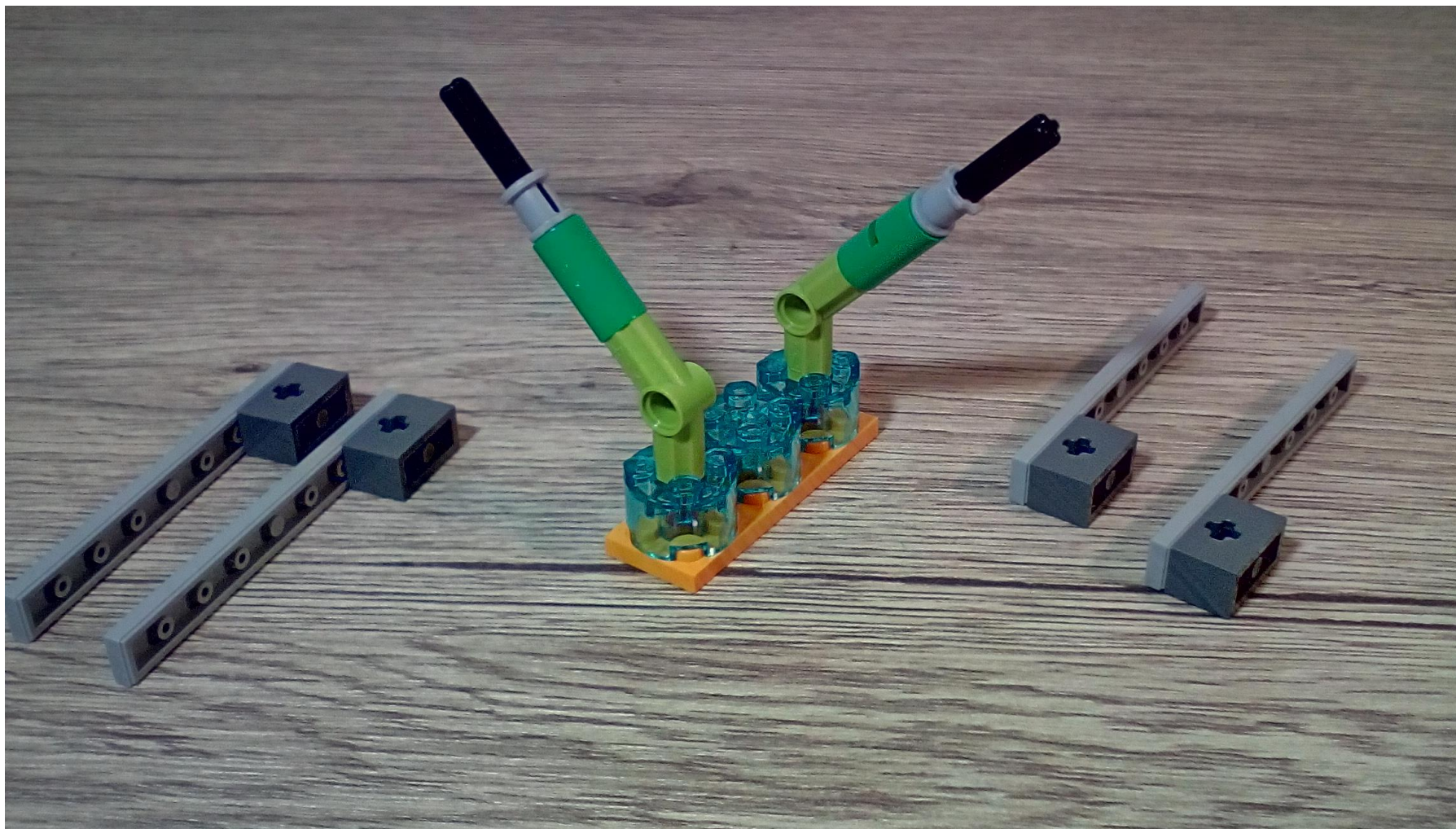
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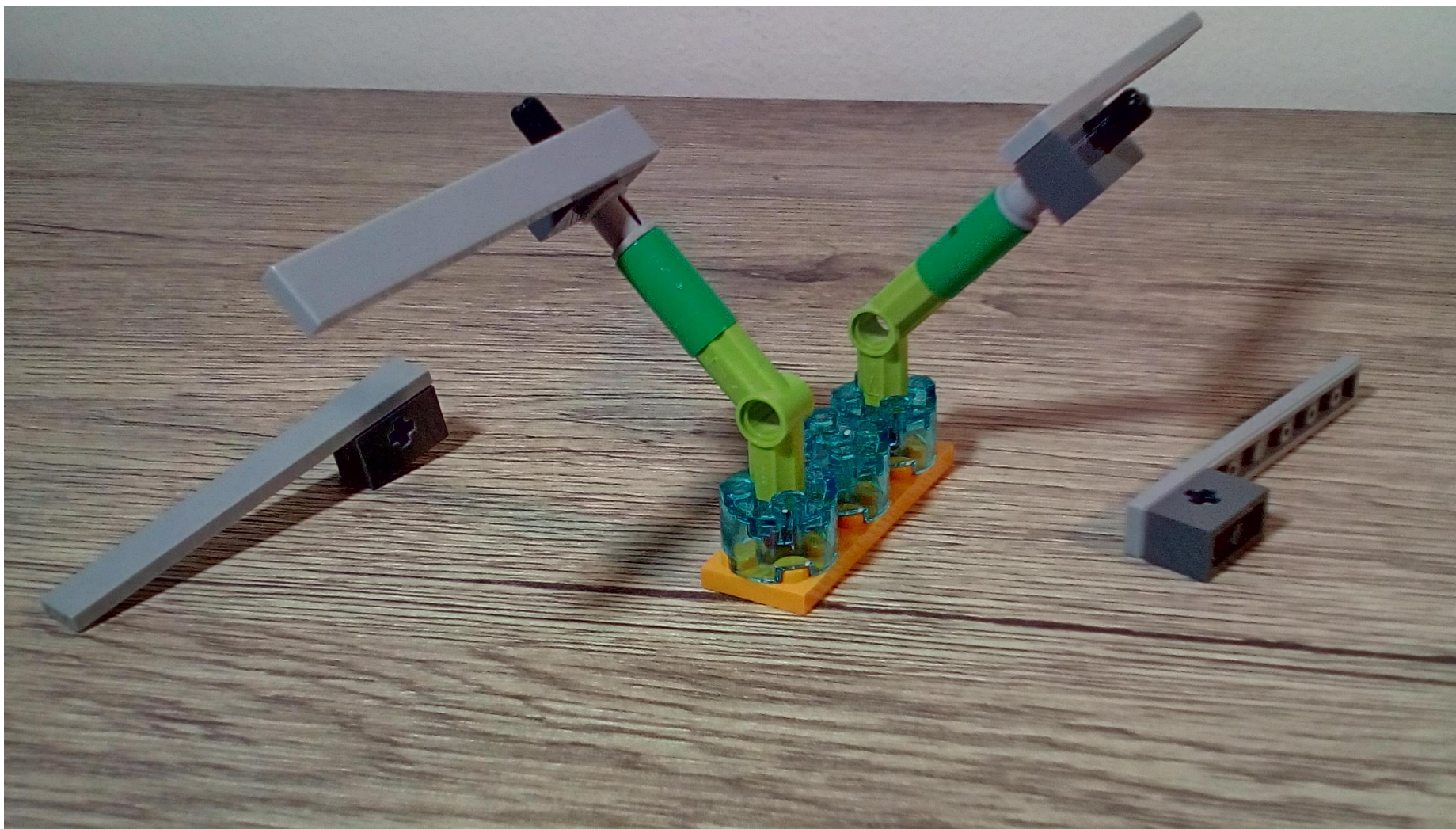
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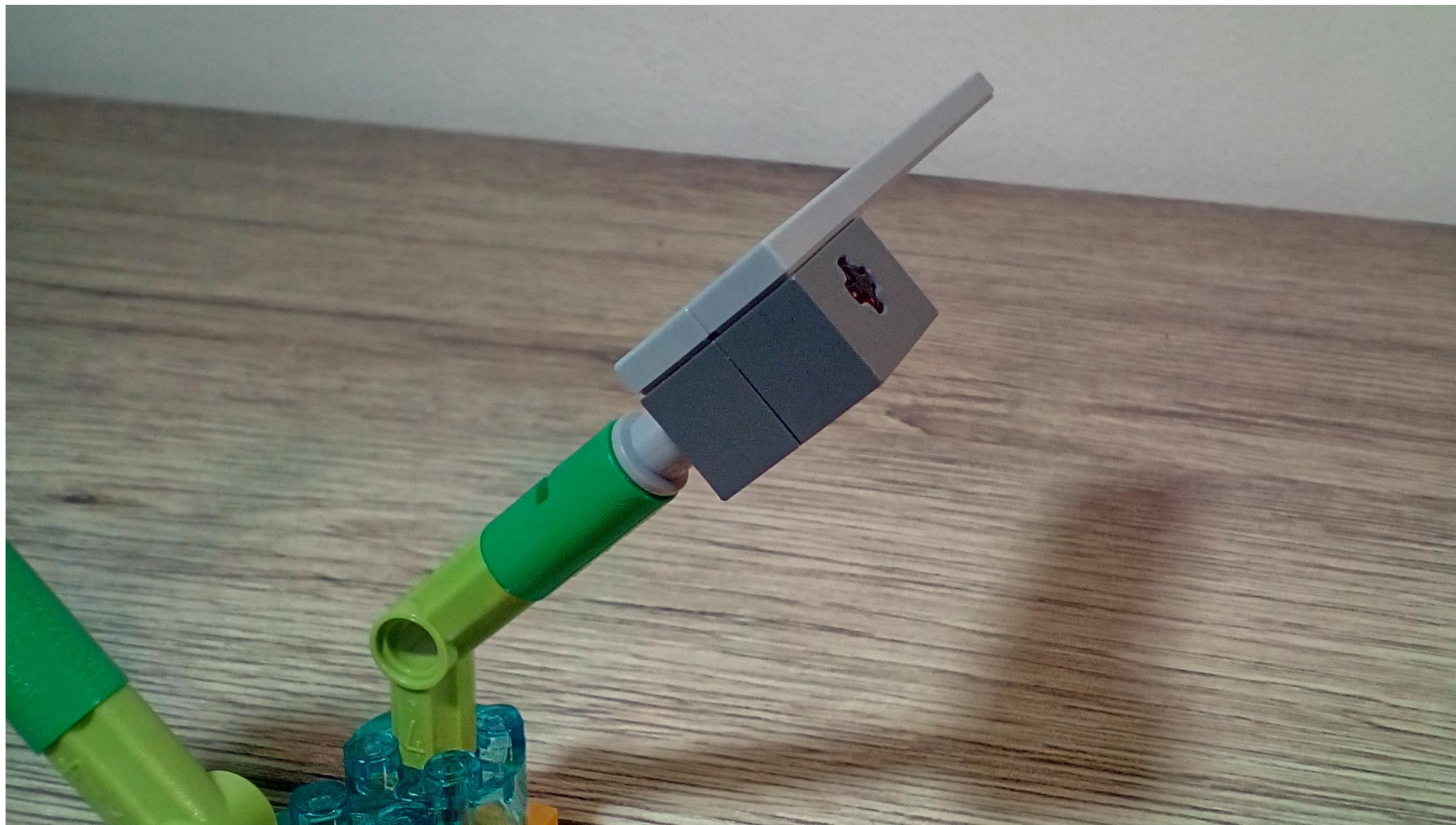
25



26



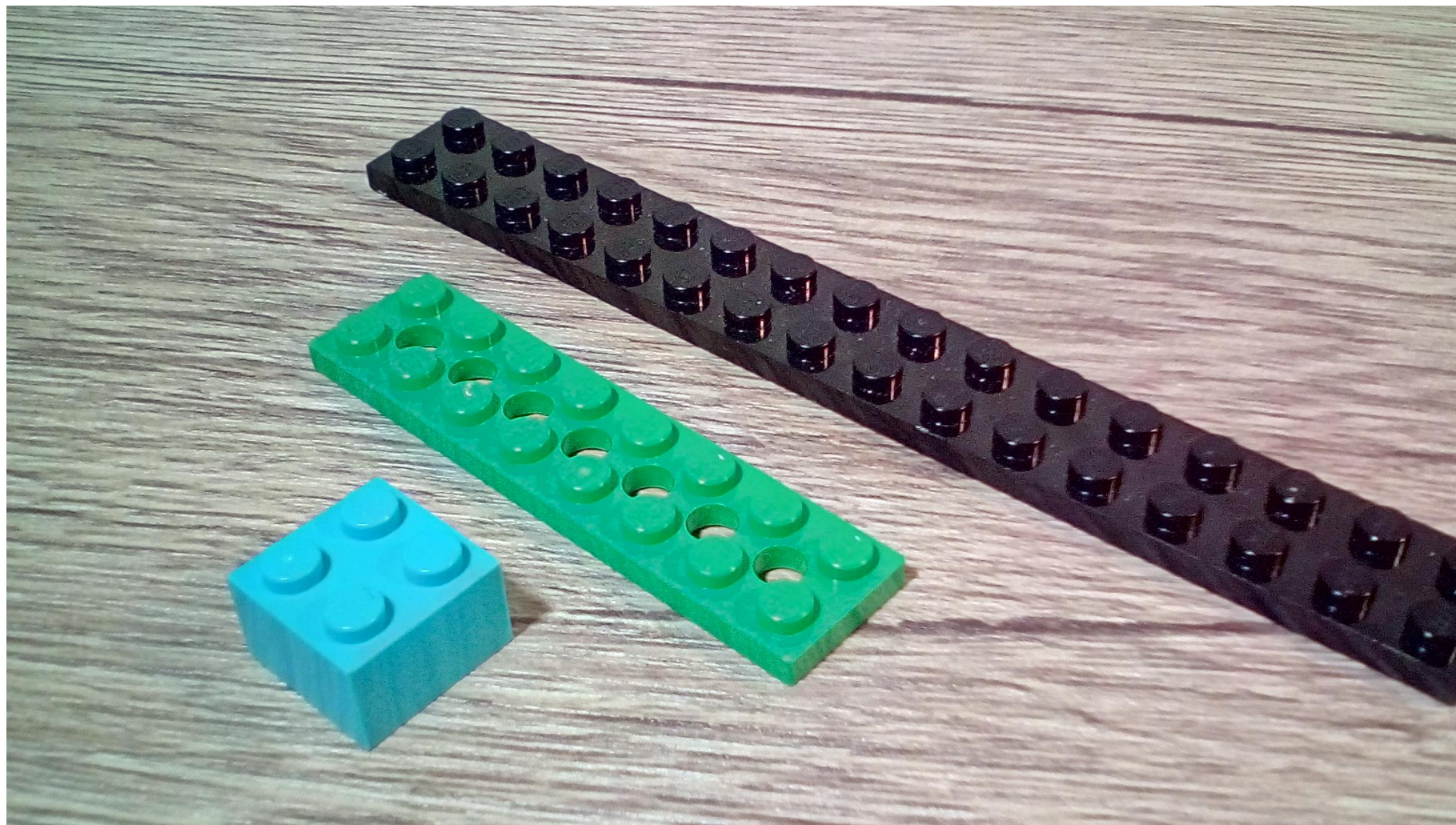
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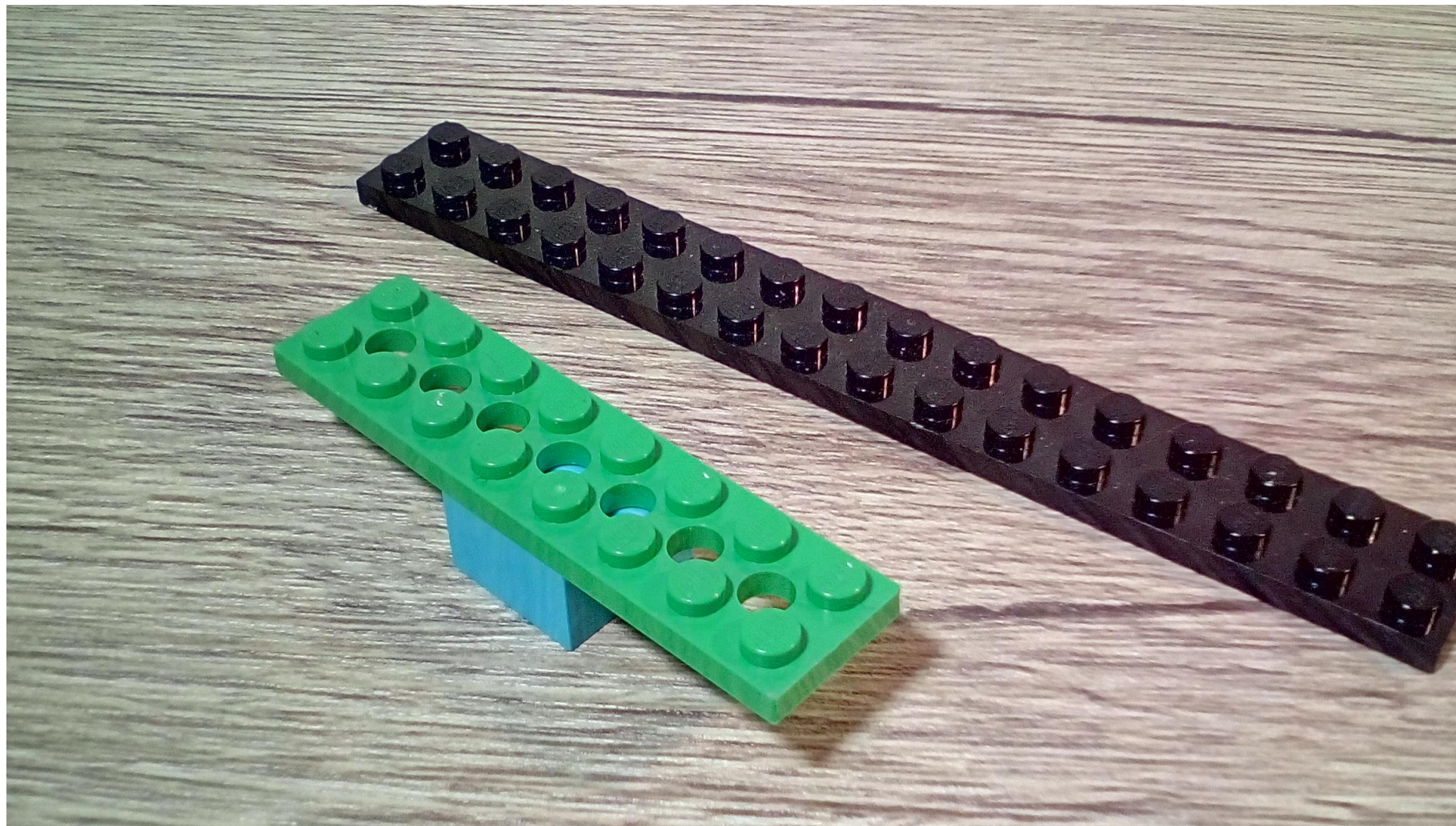
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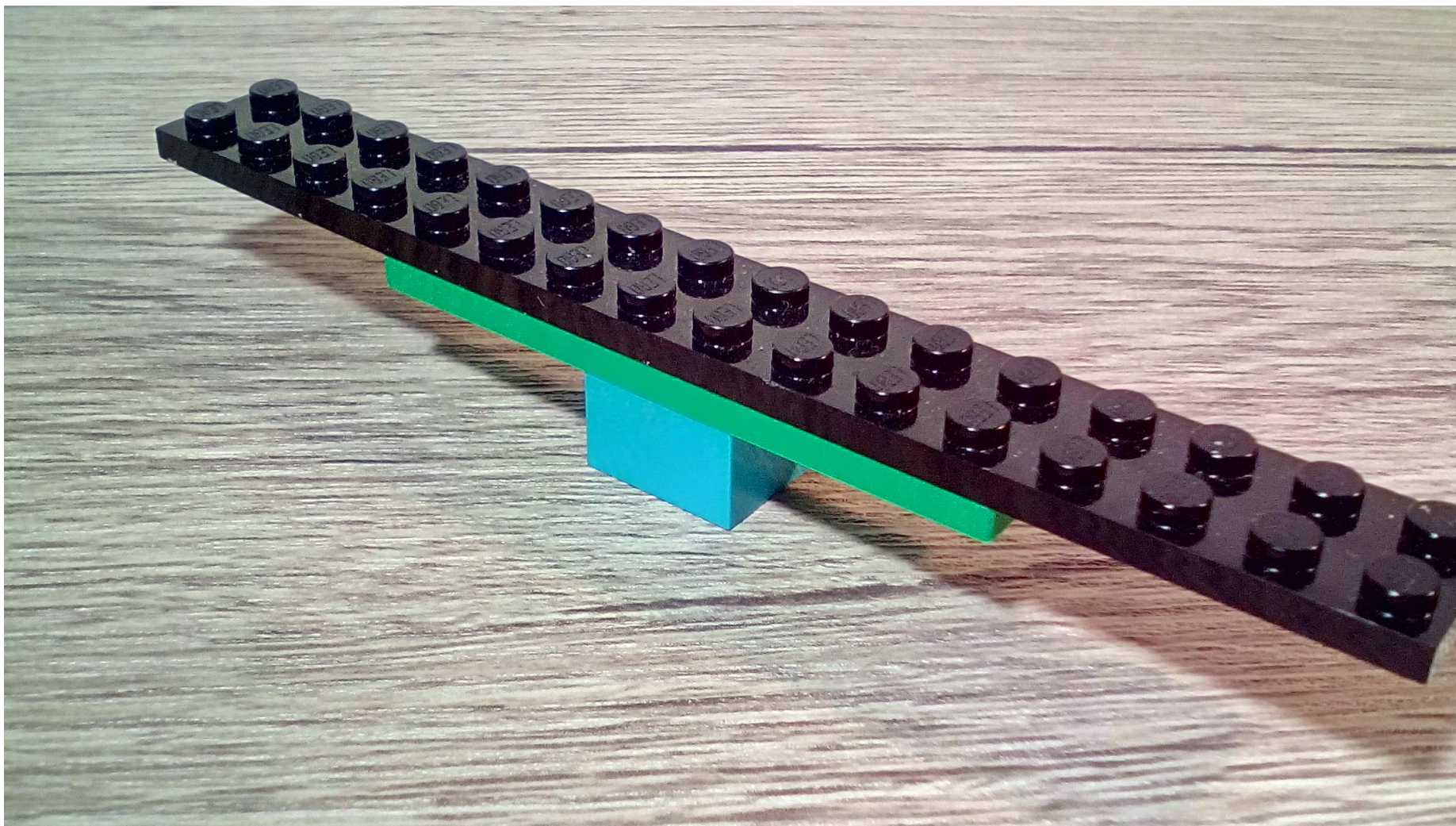
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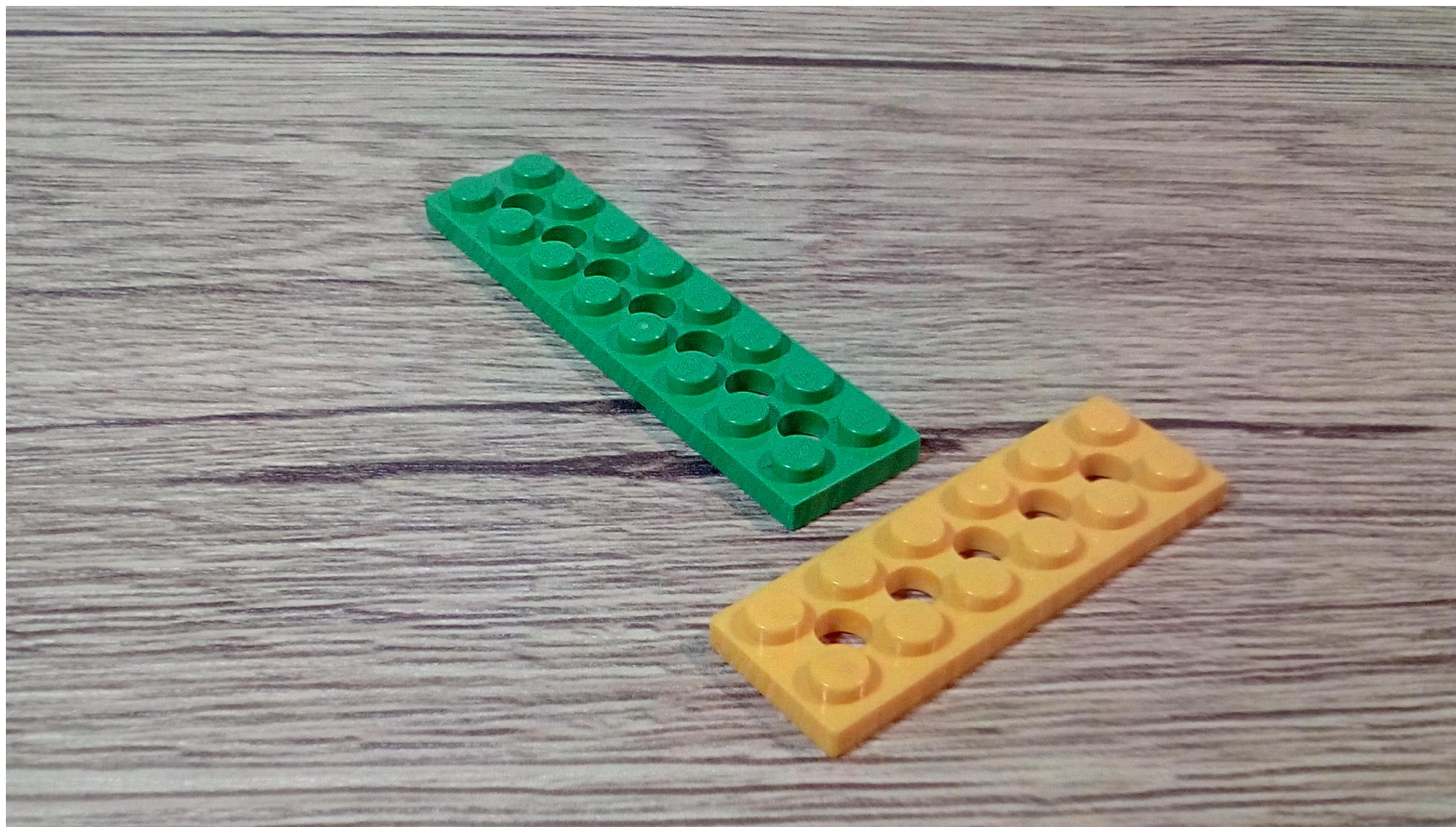
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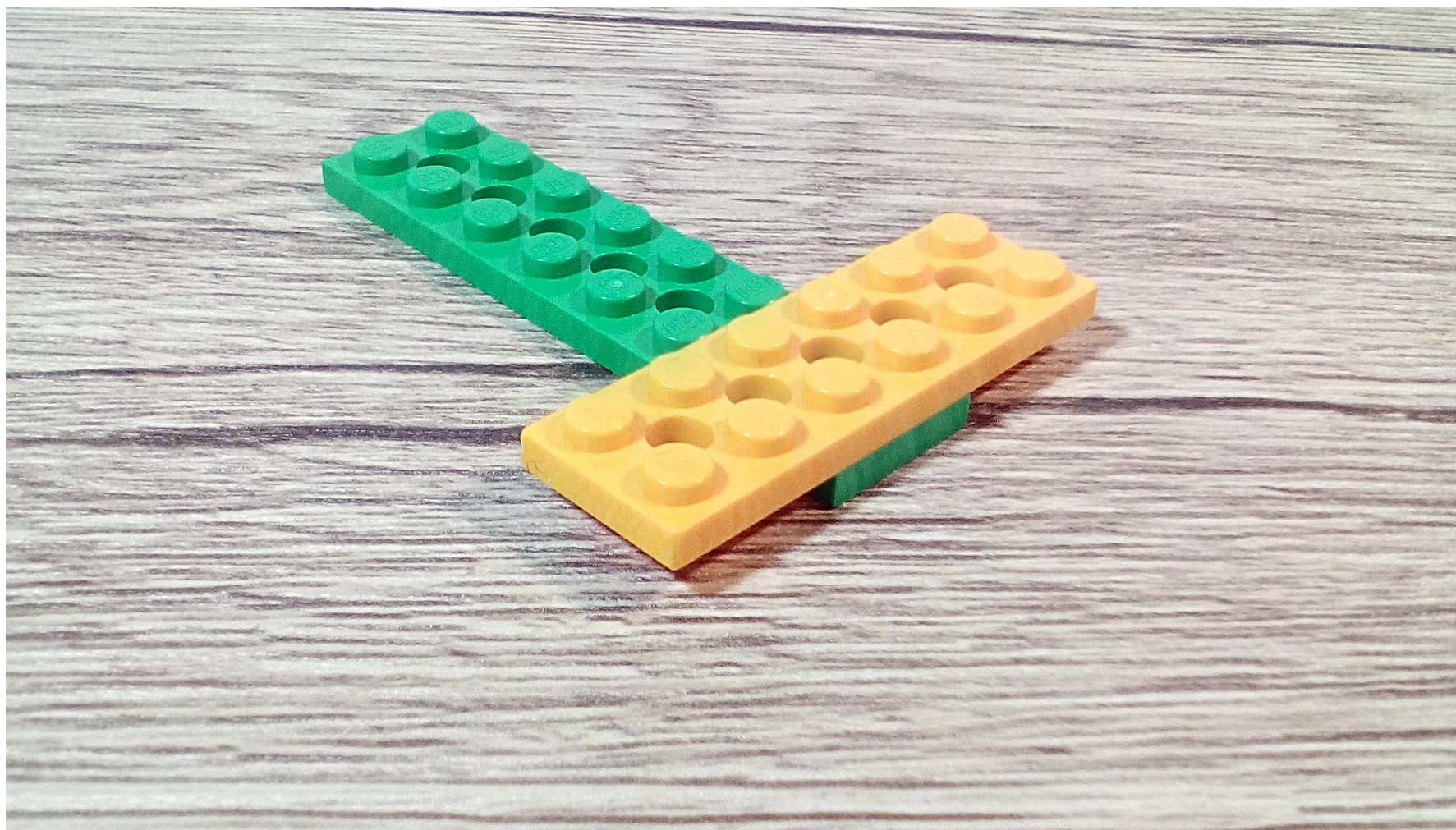
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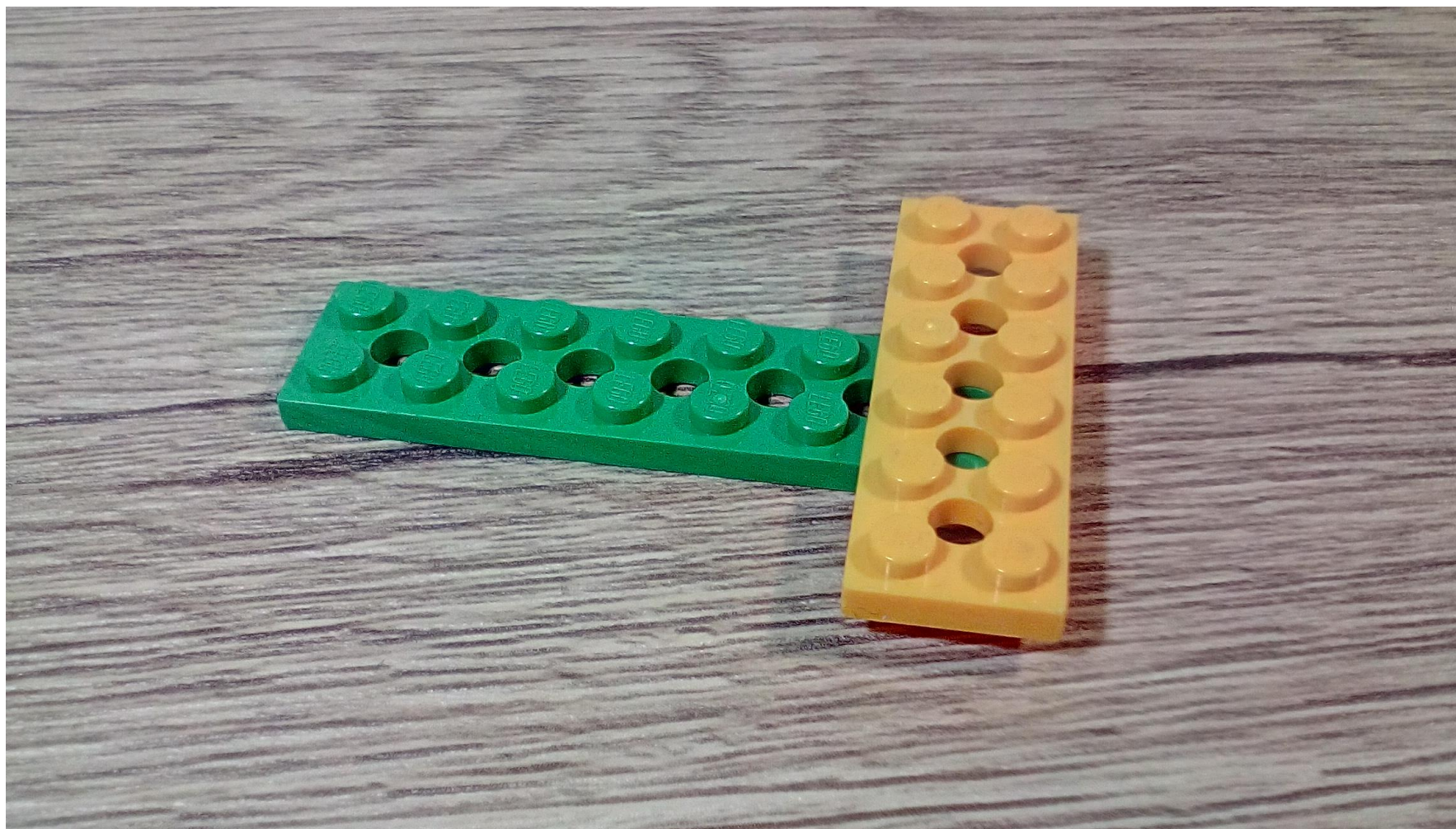
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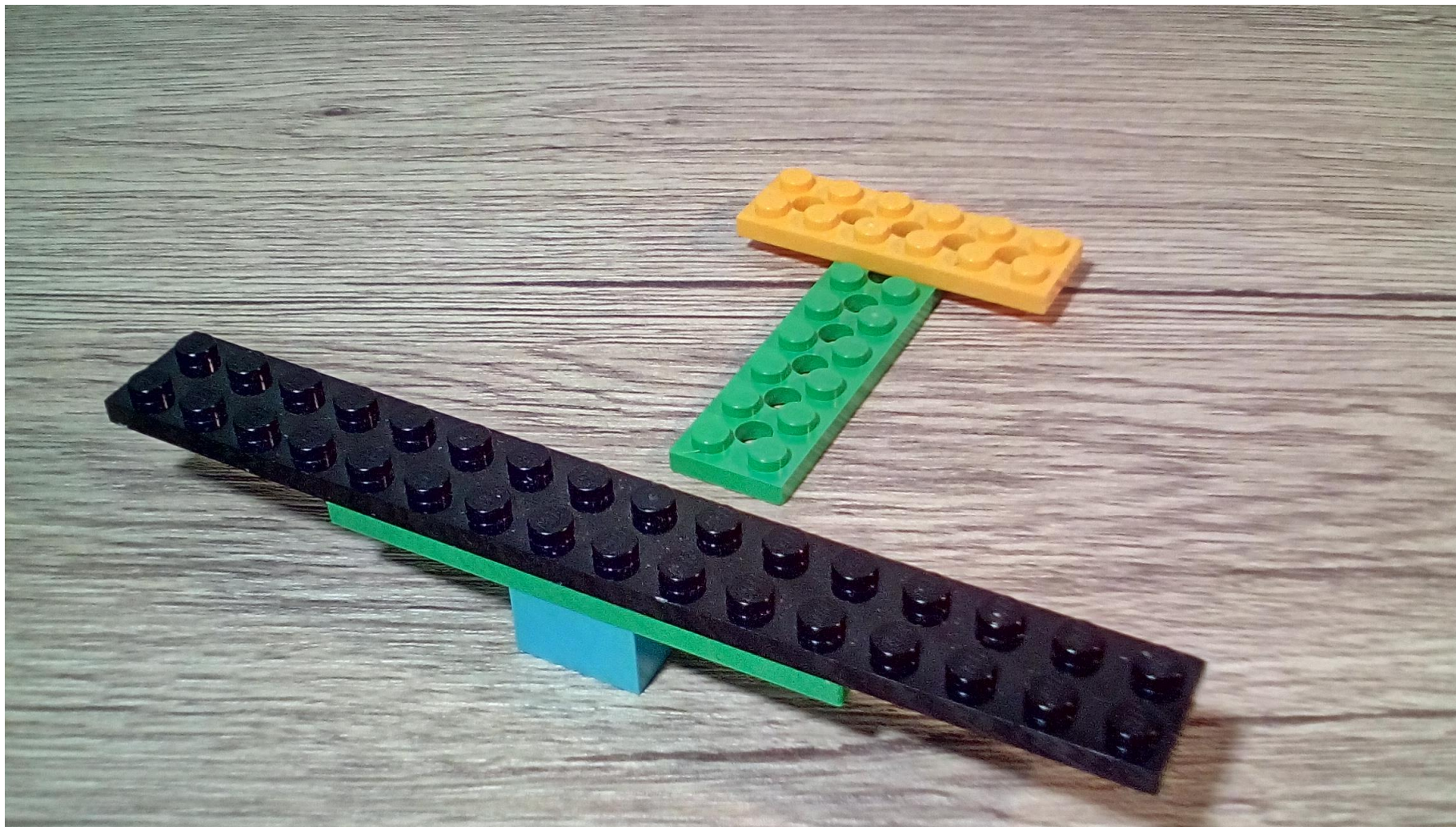
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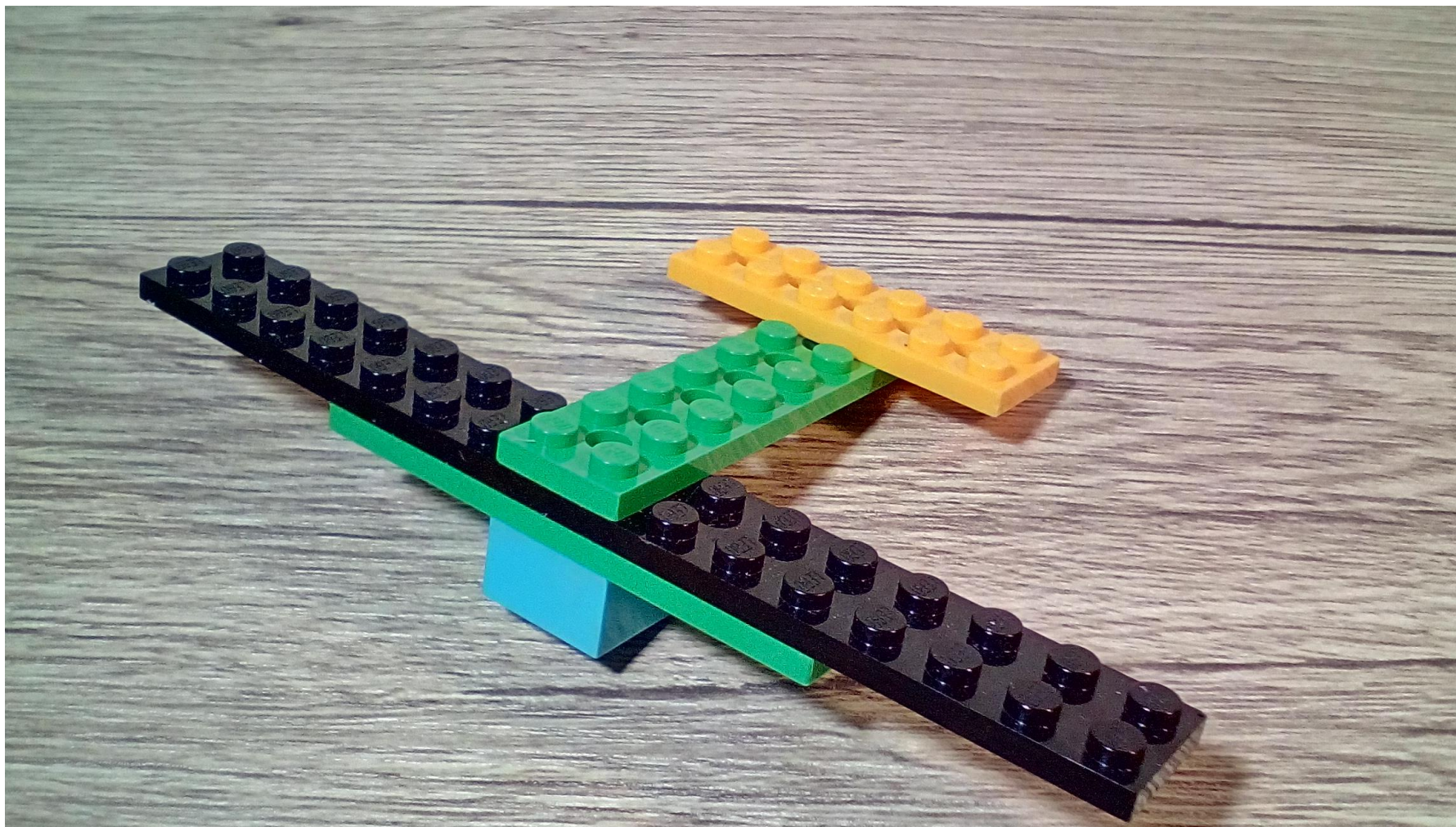
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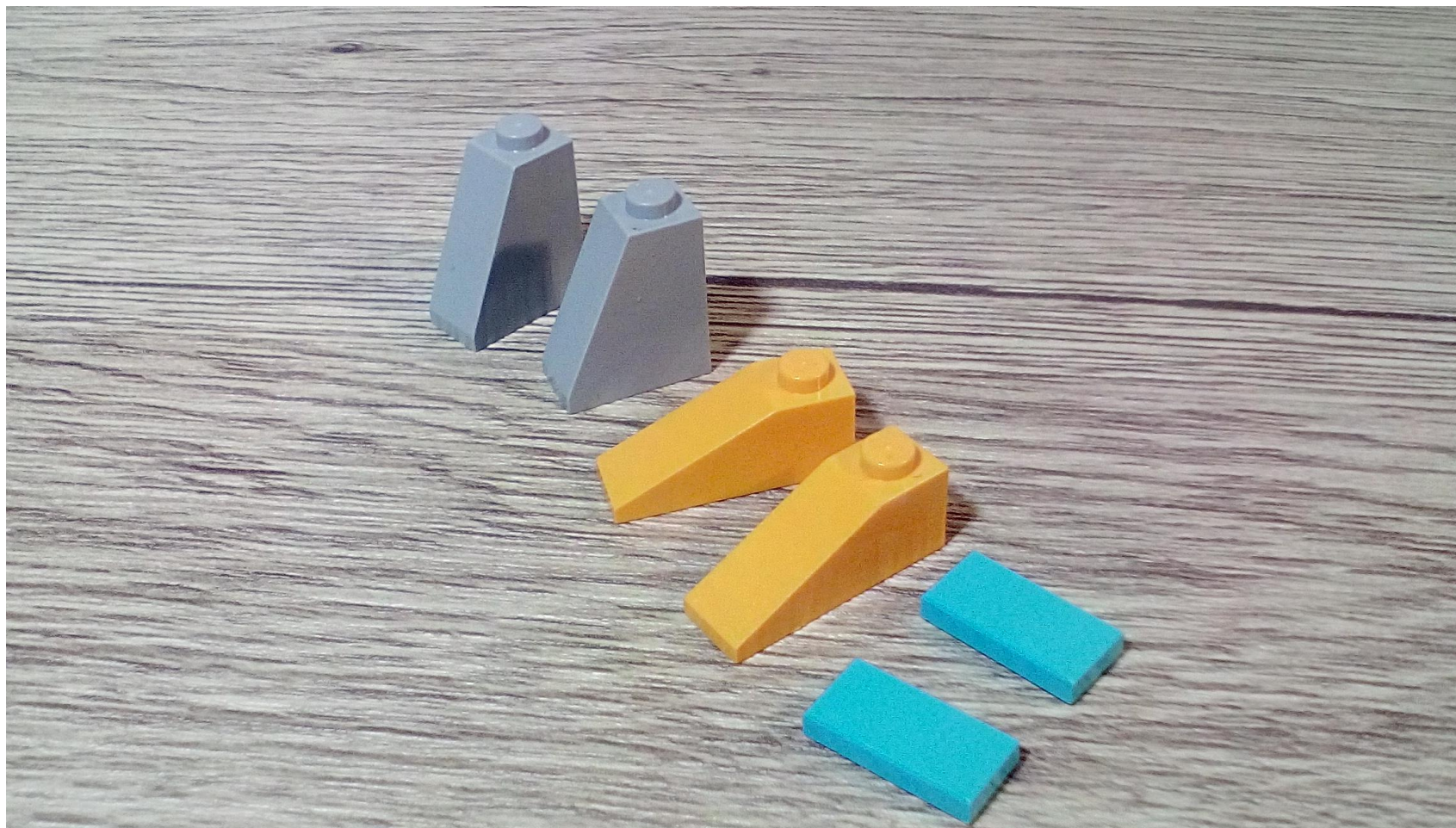
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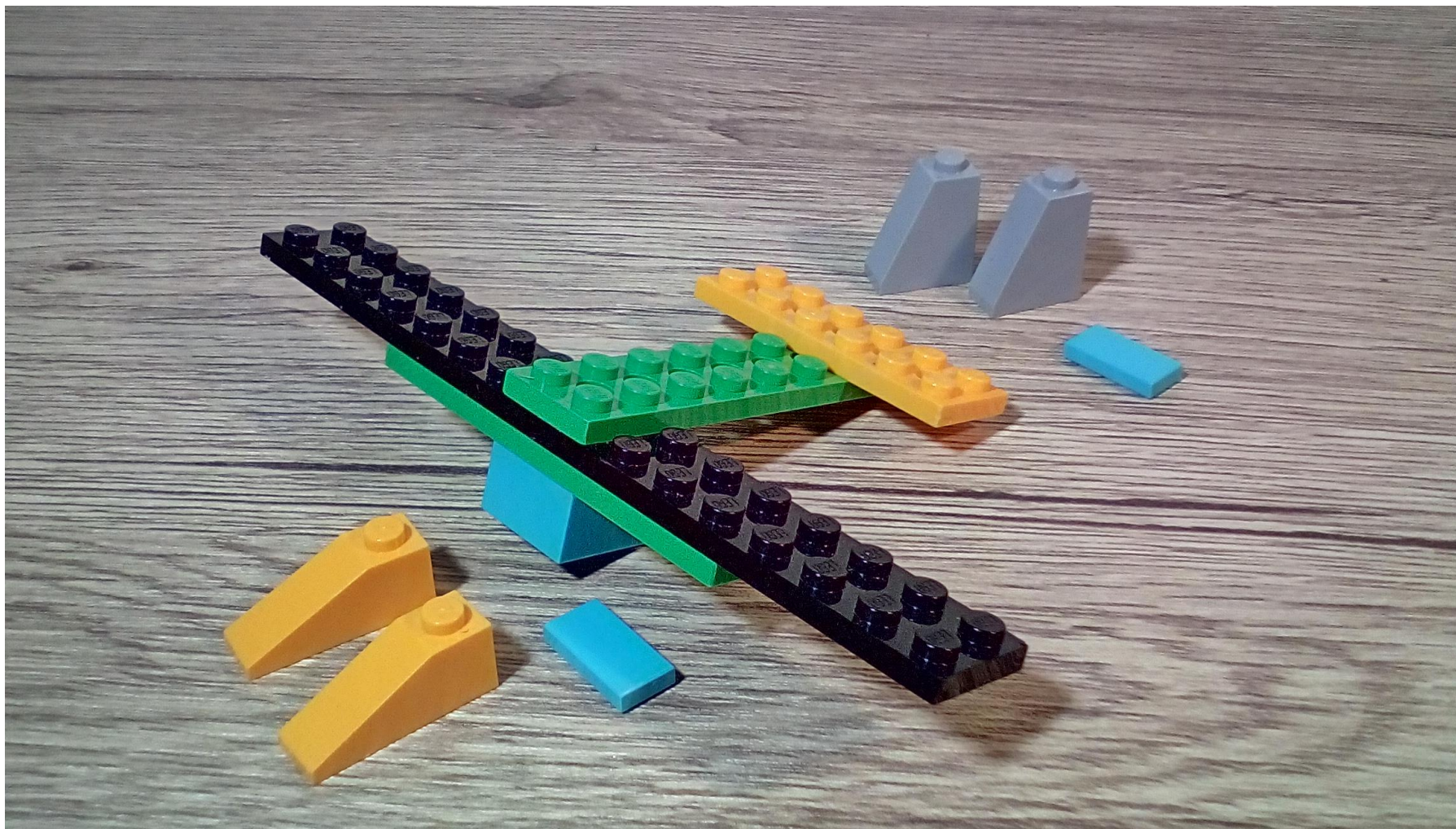
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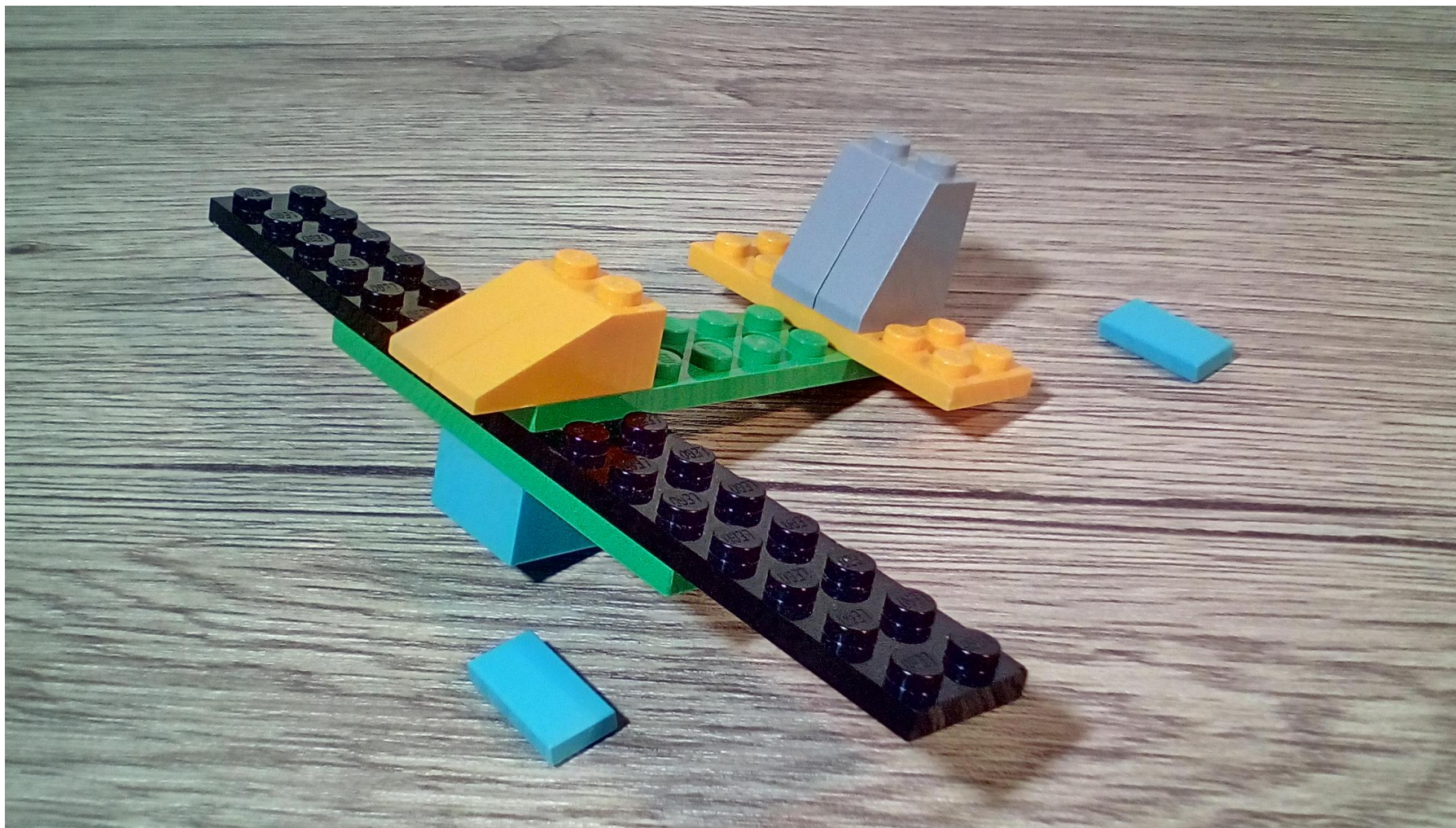
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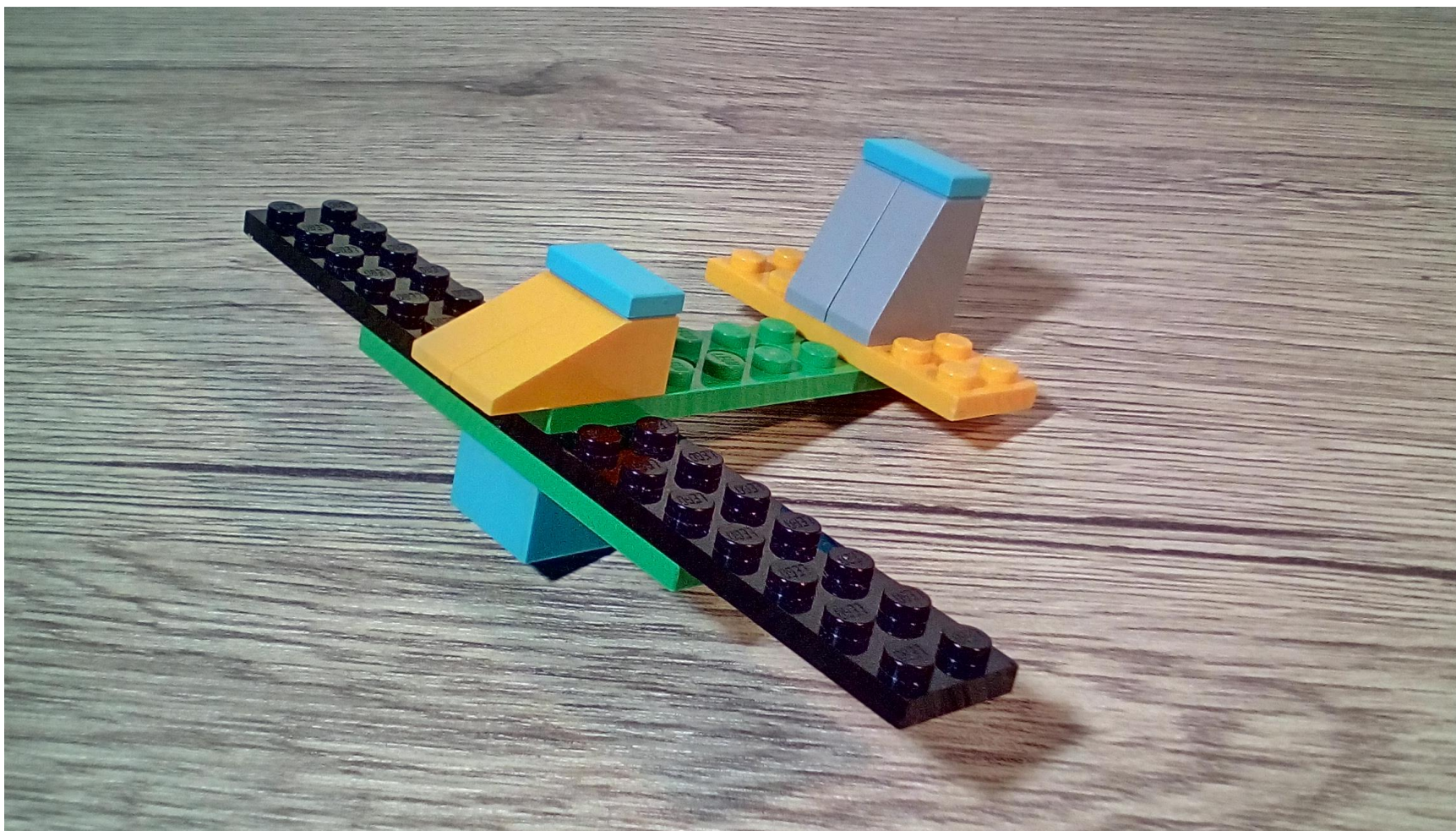
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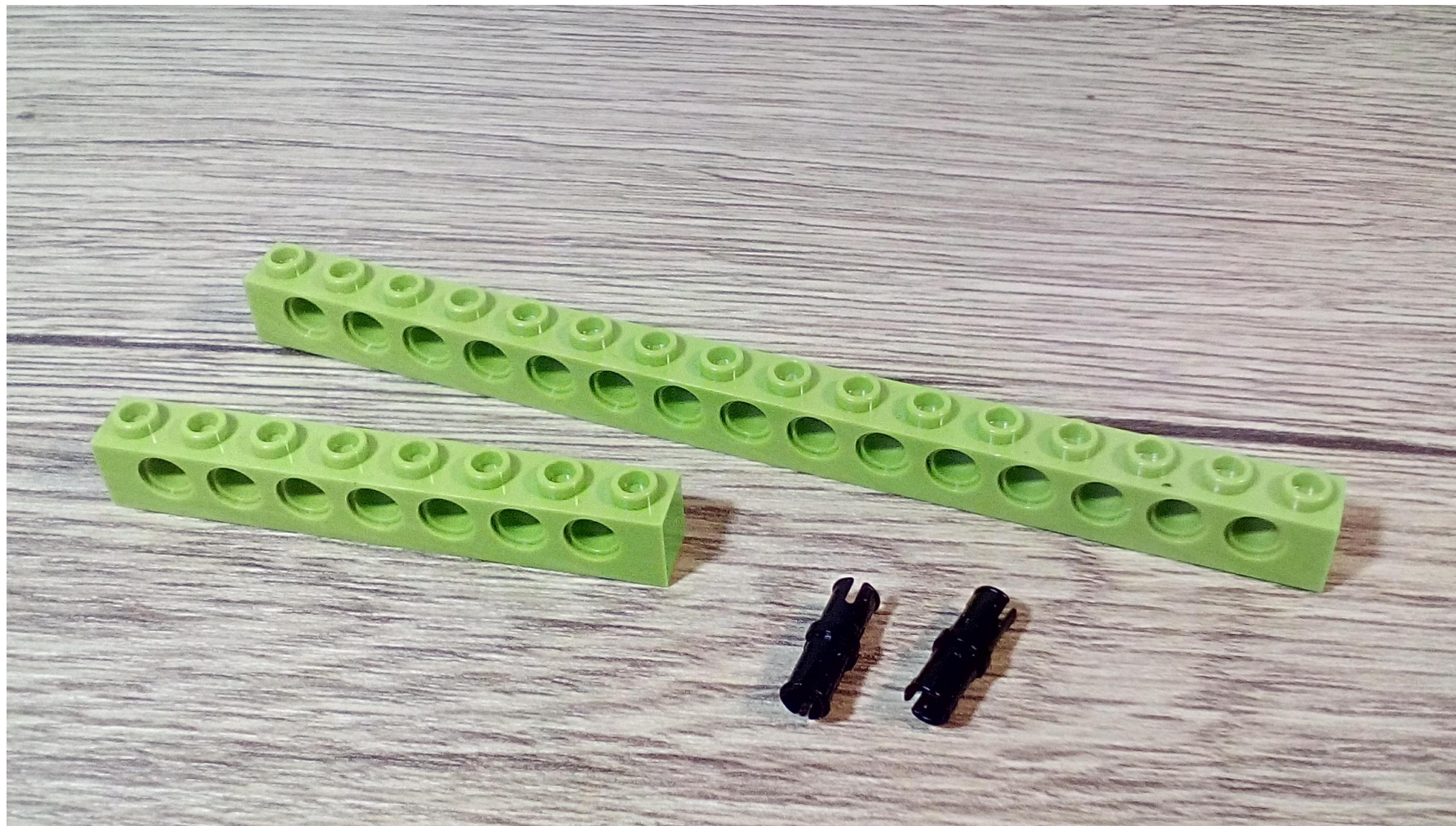
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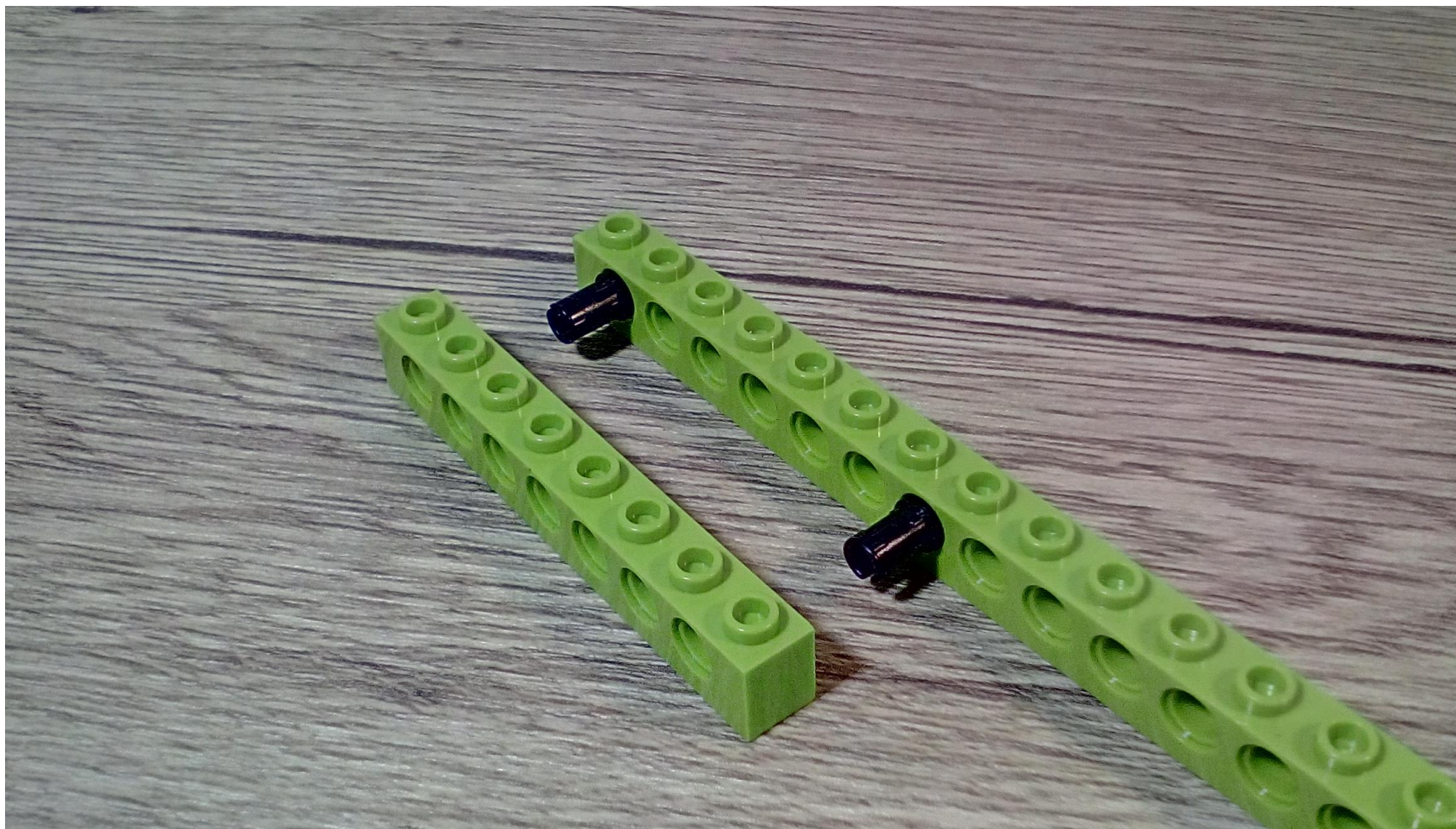
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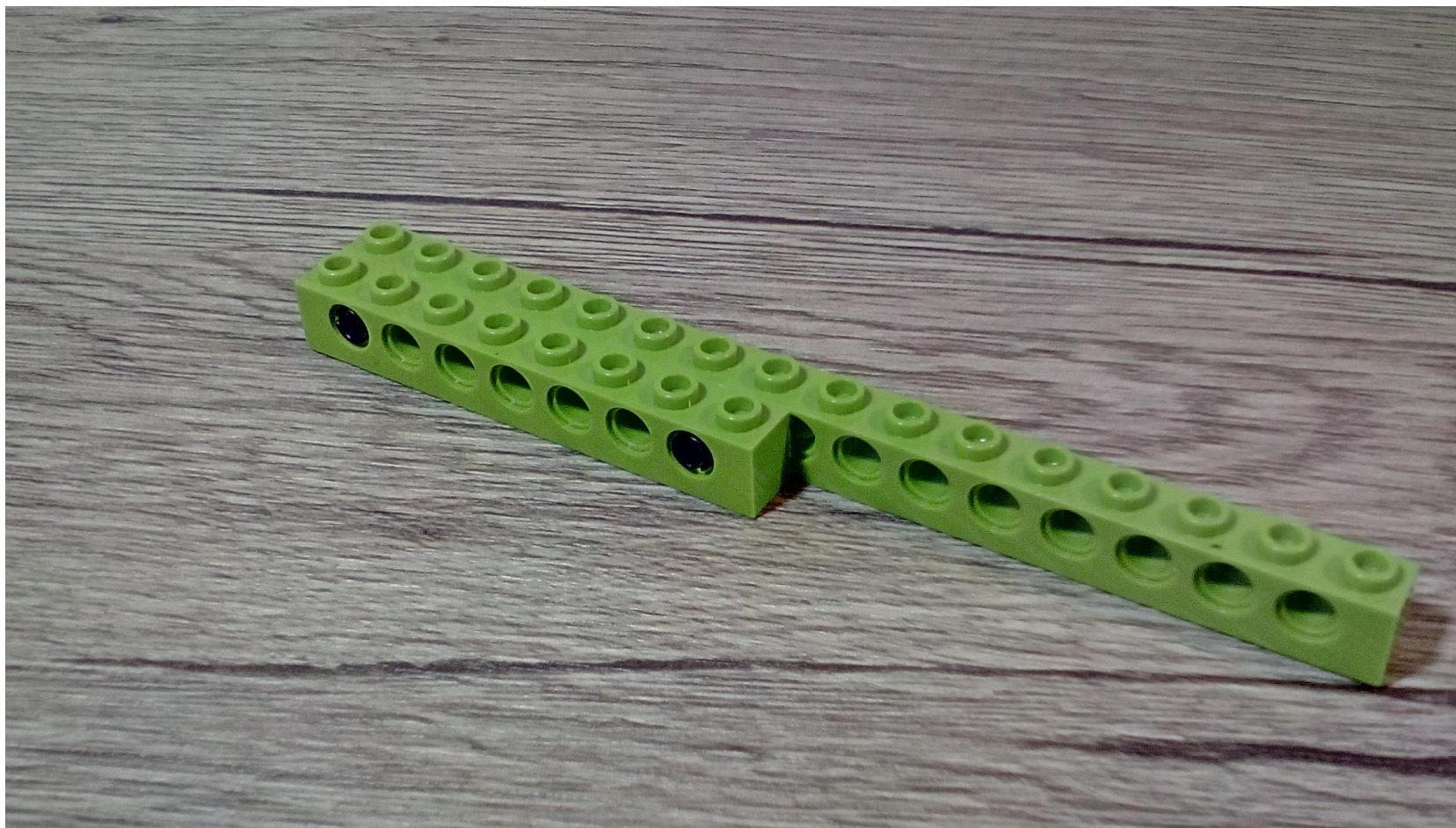
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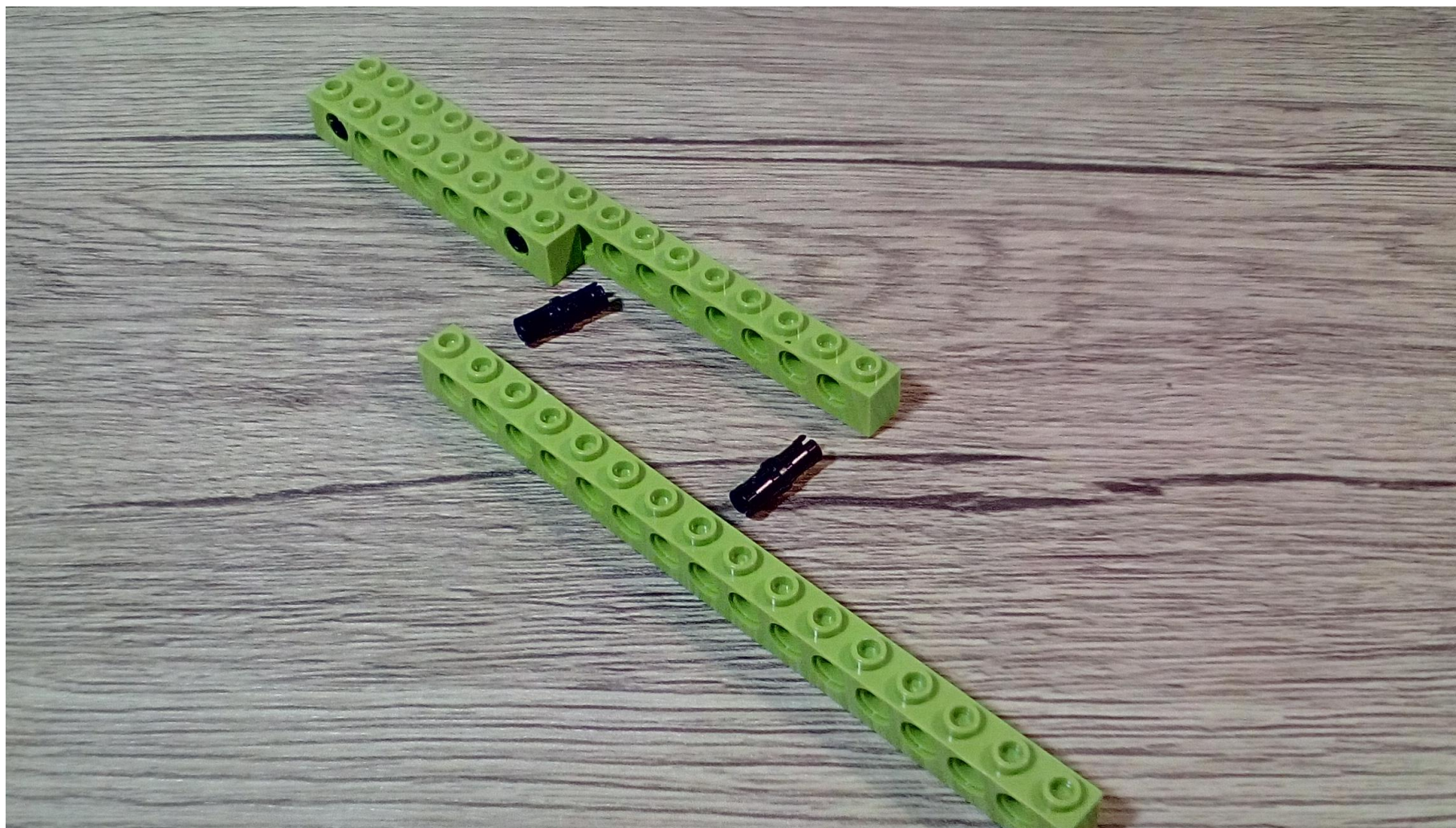
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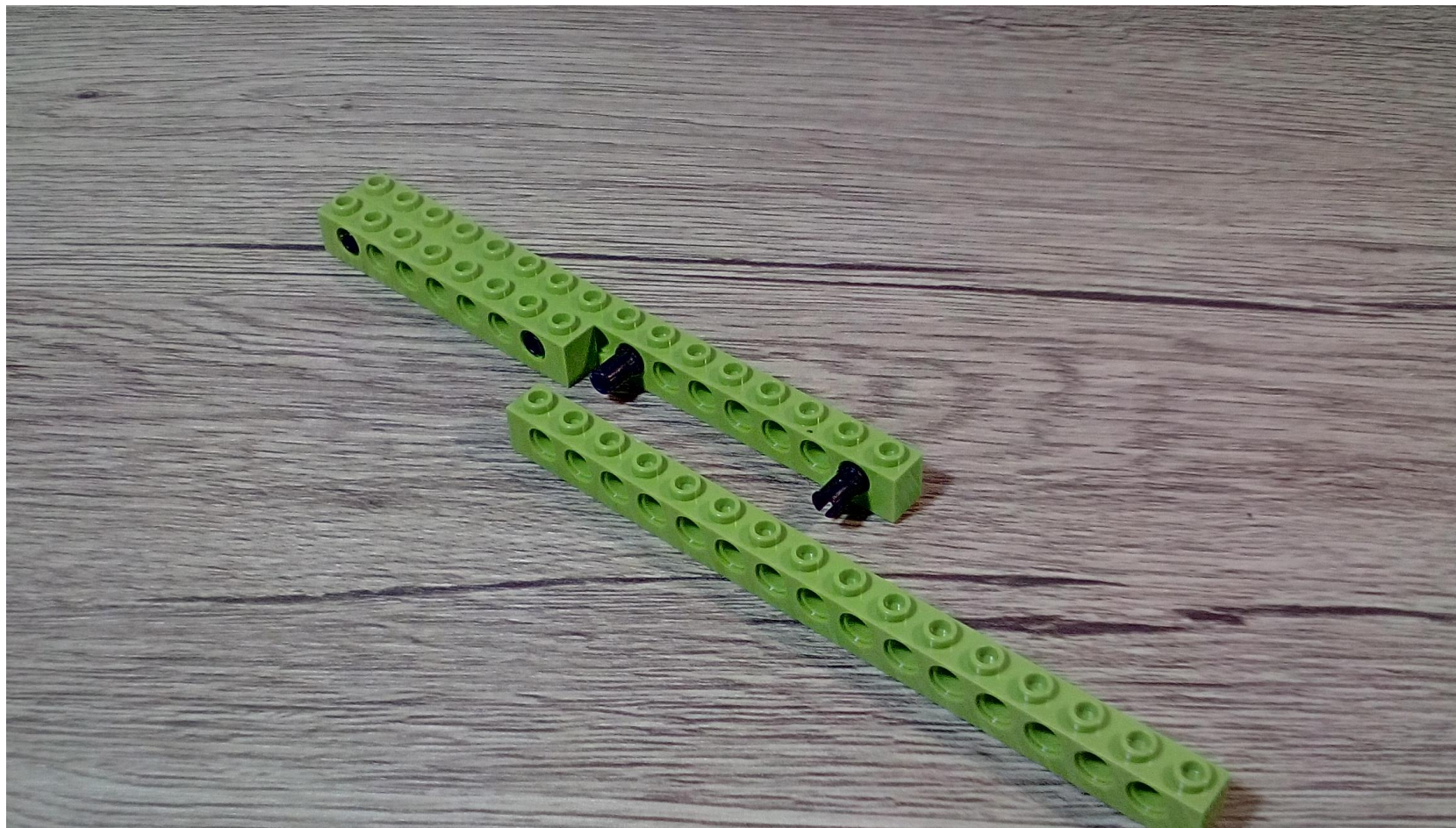
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44



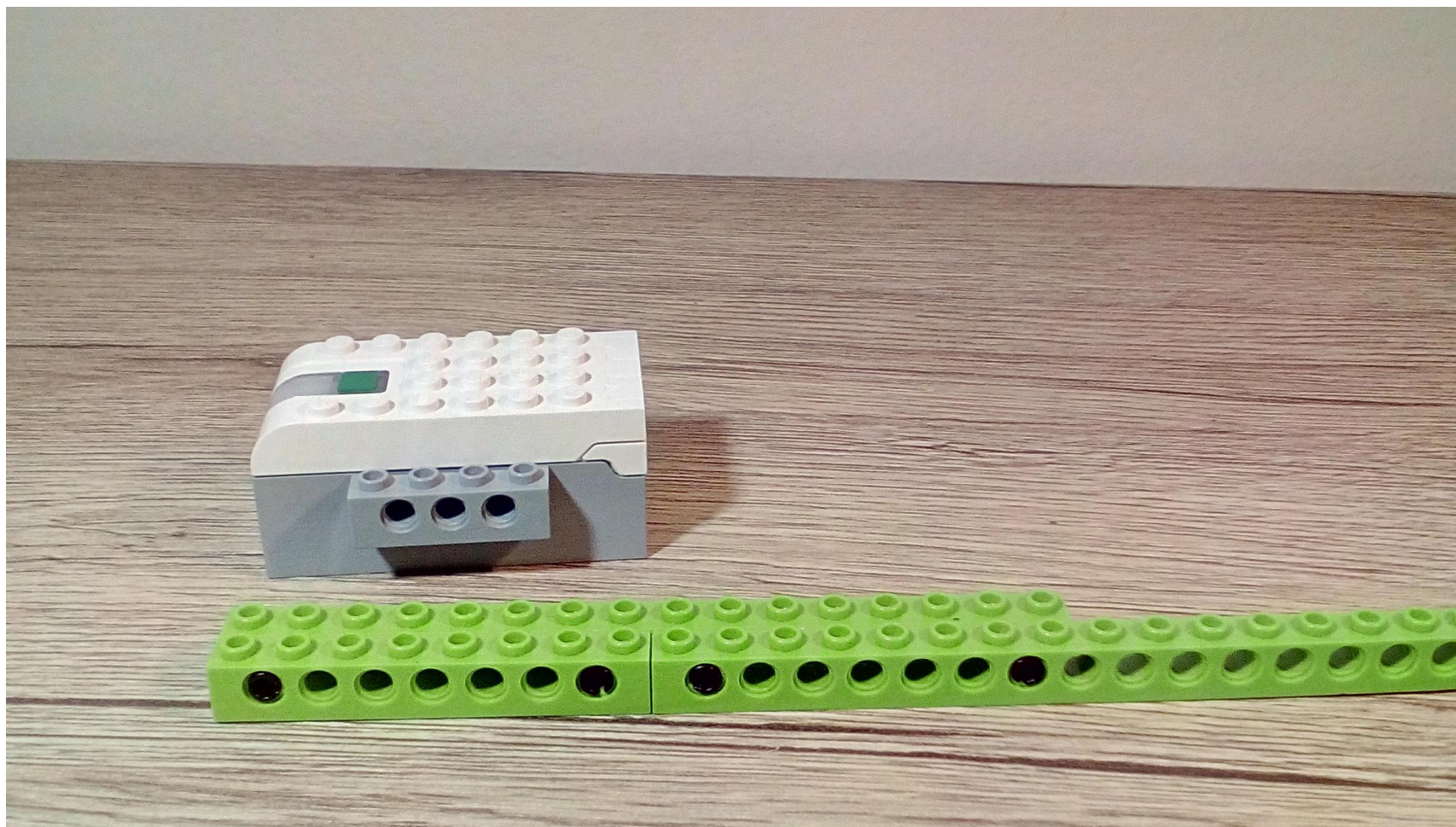
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46



47



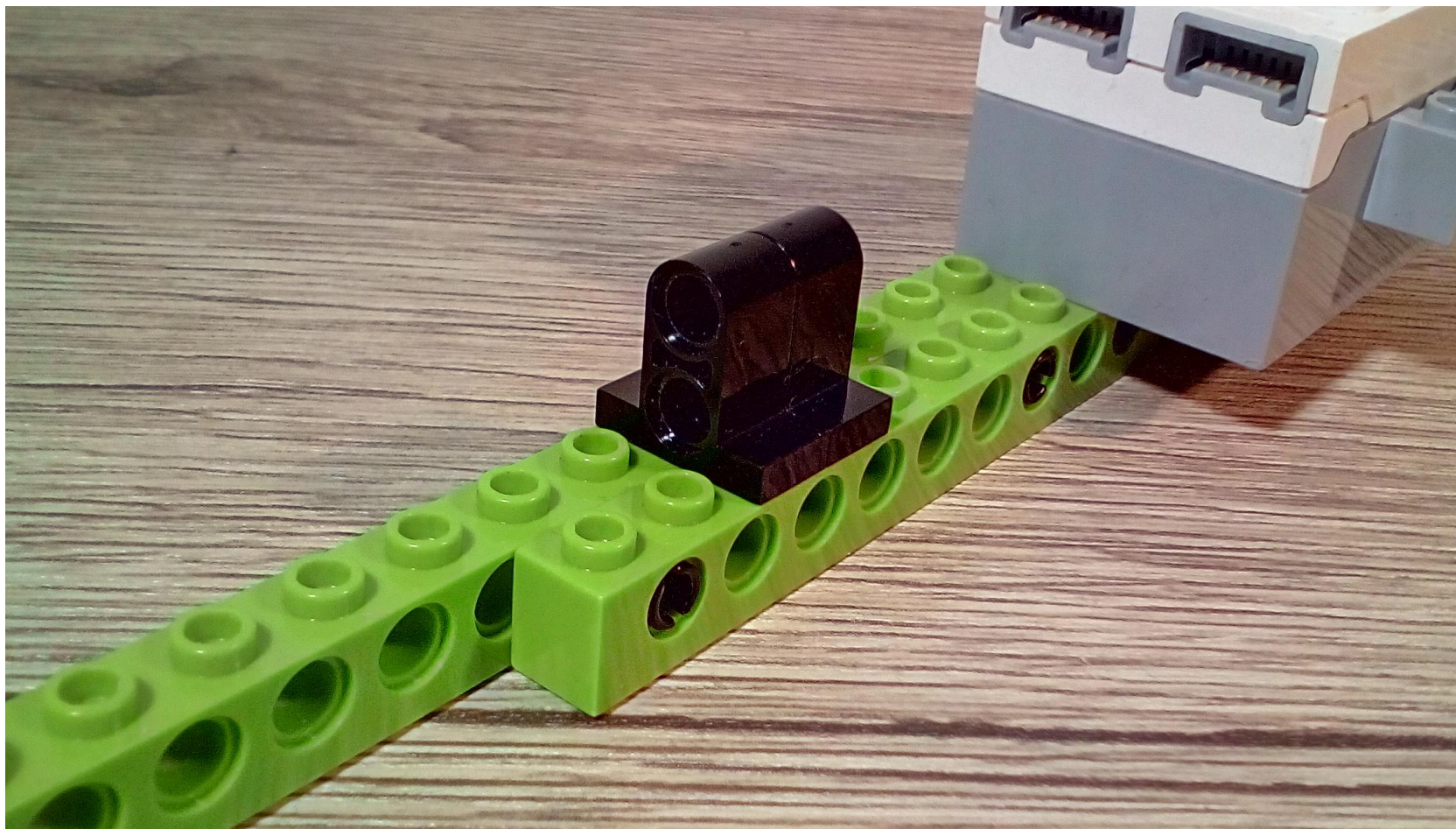
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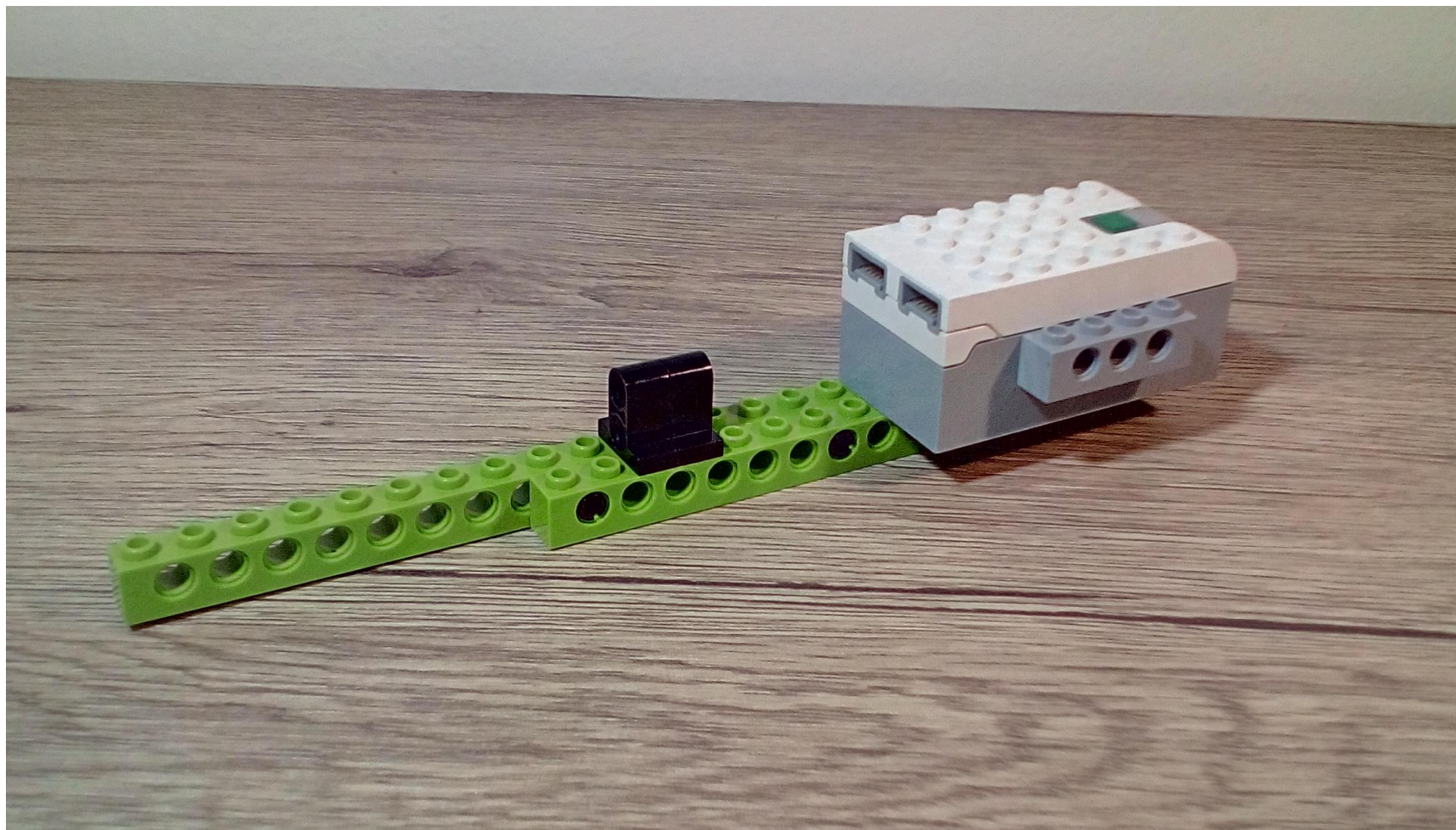
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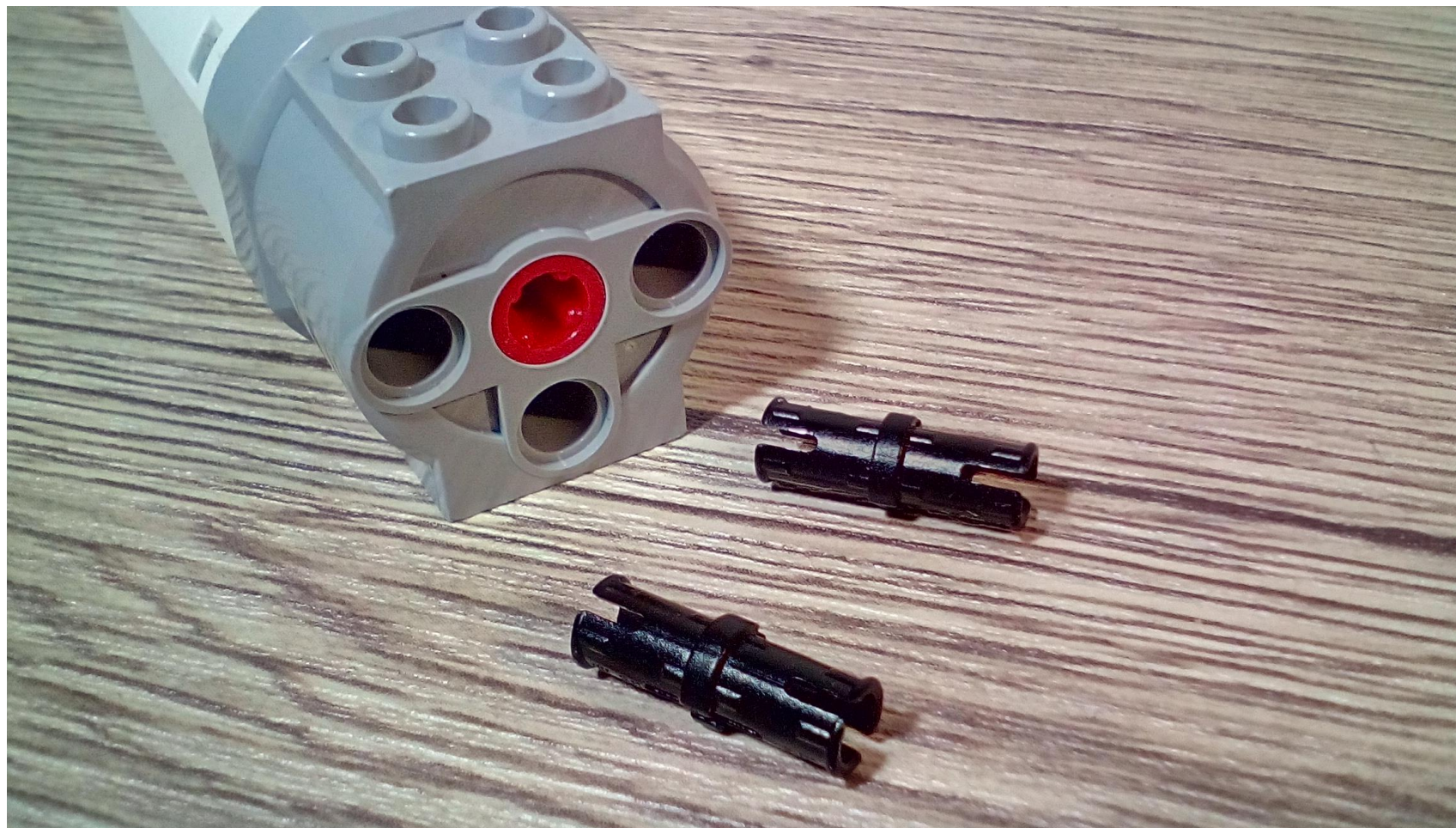
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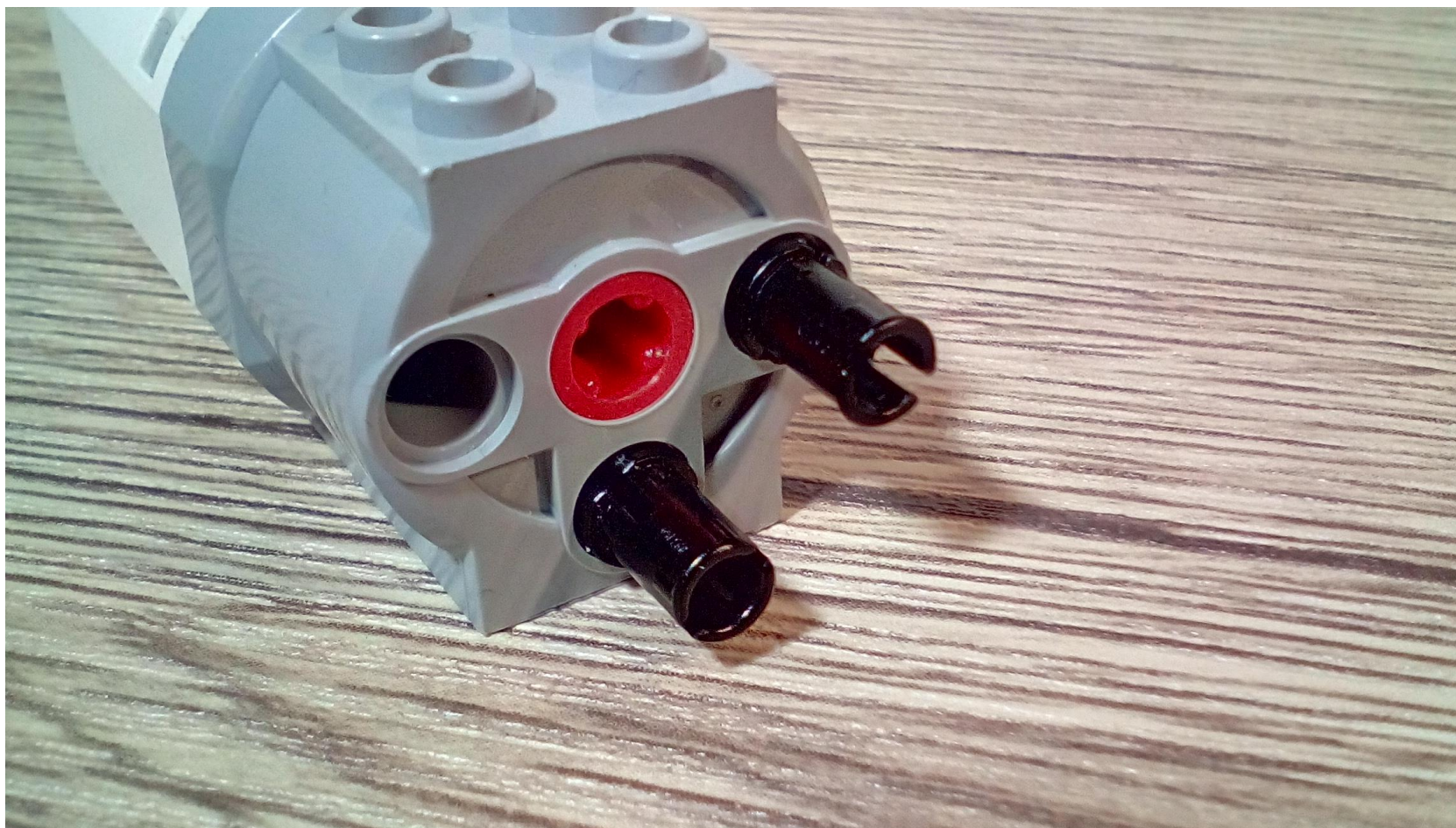
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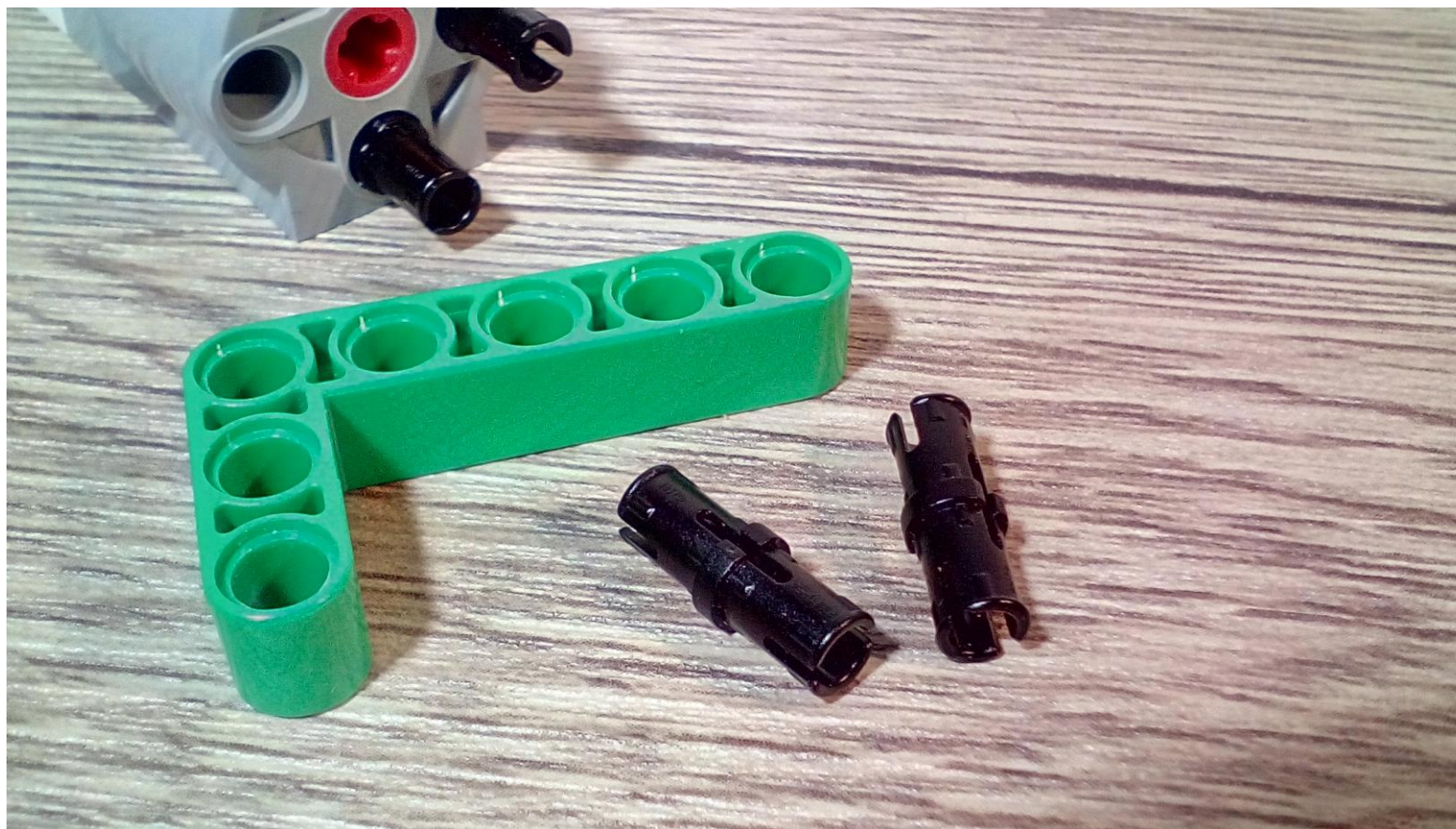
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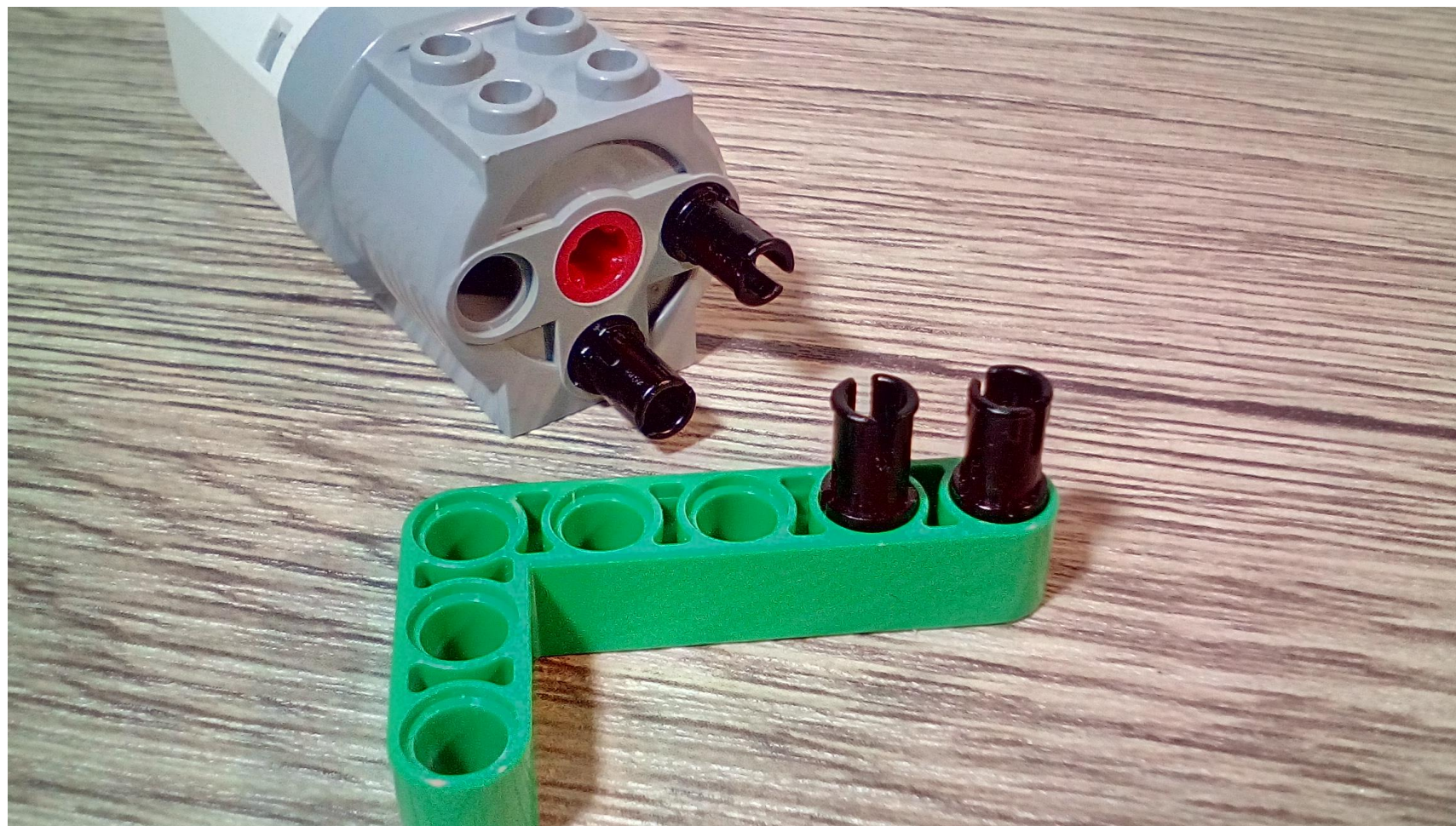
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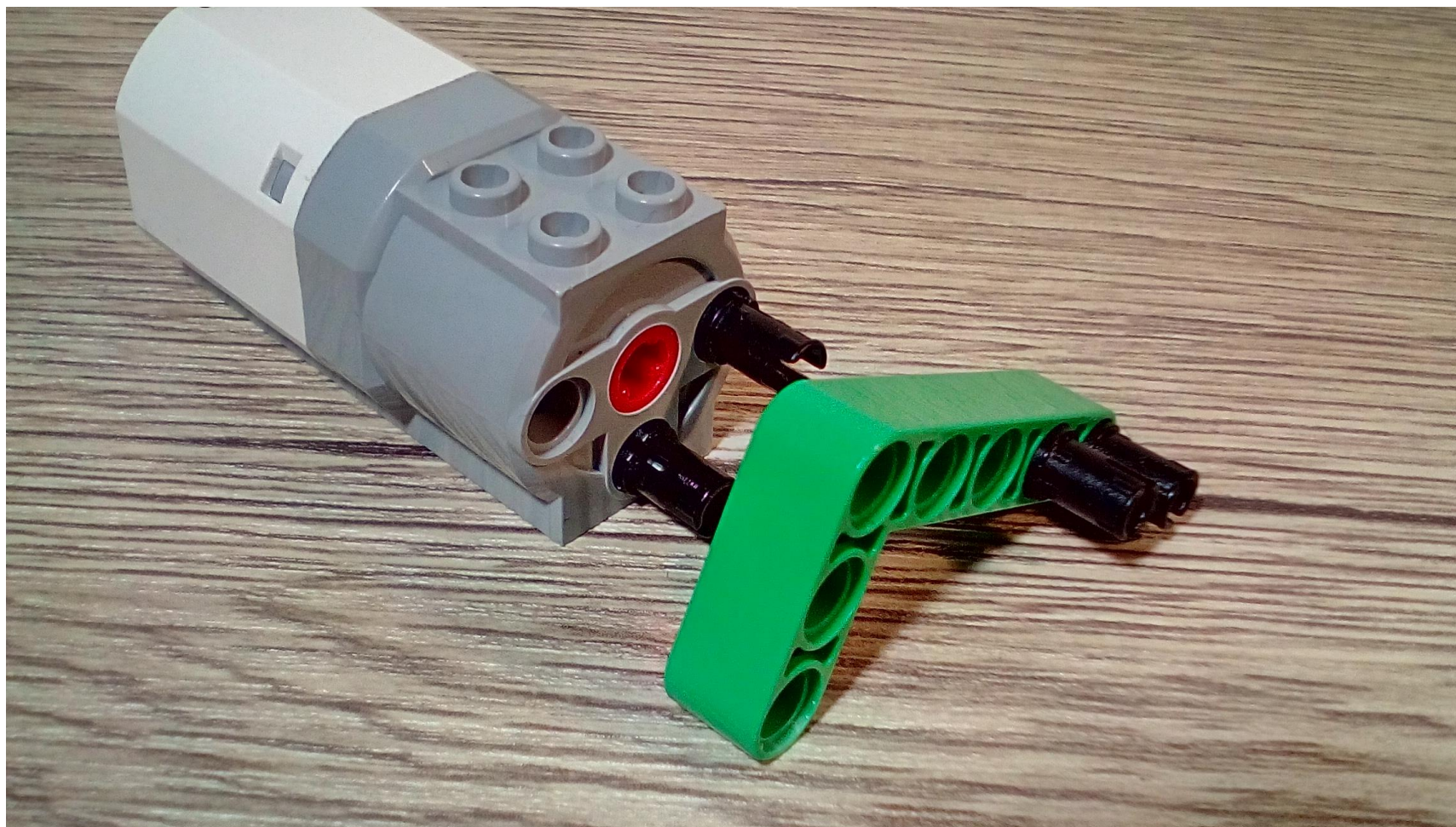
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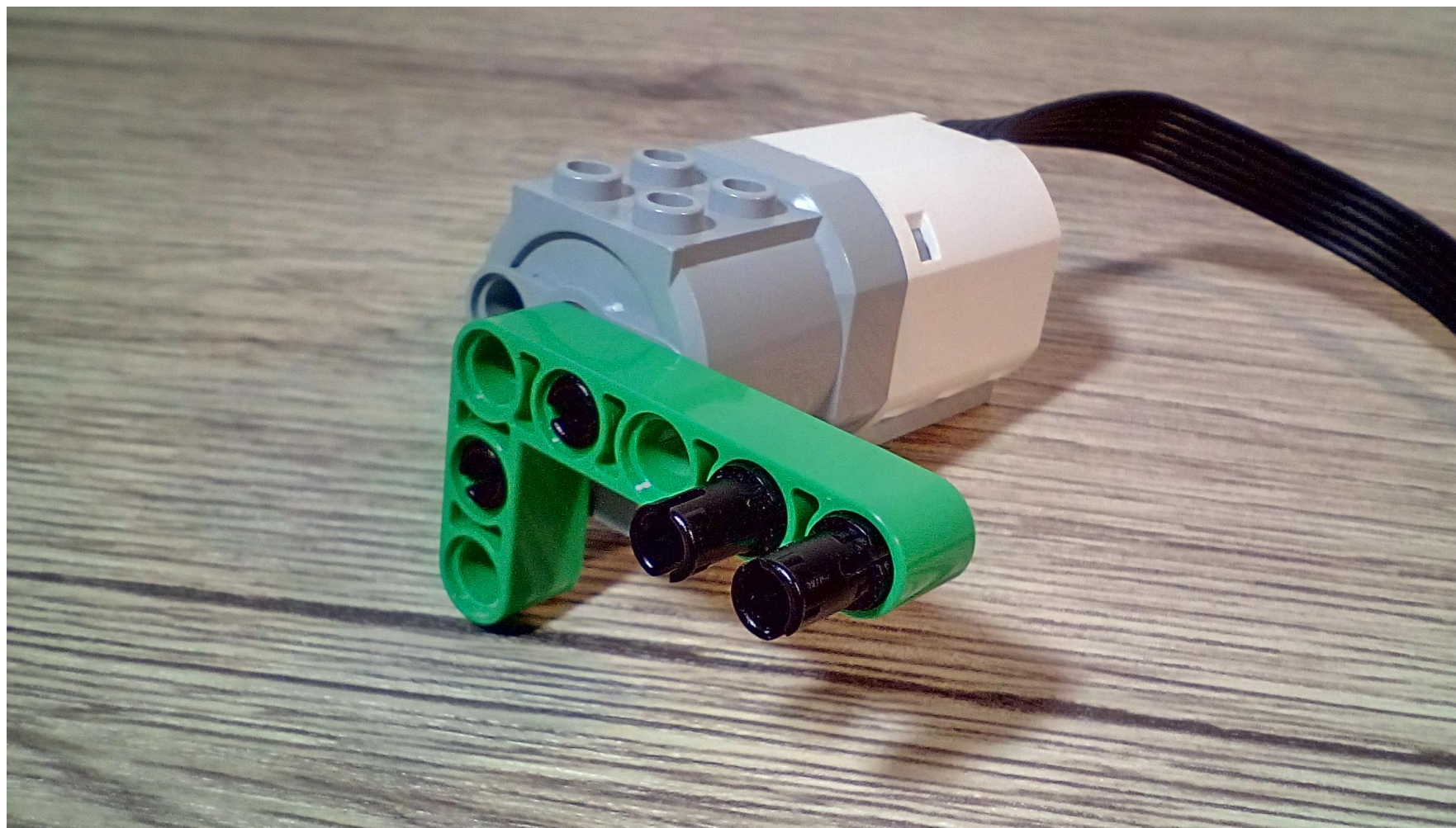
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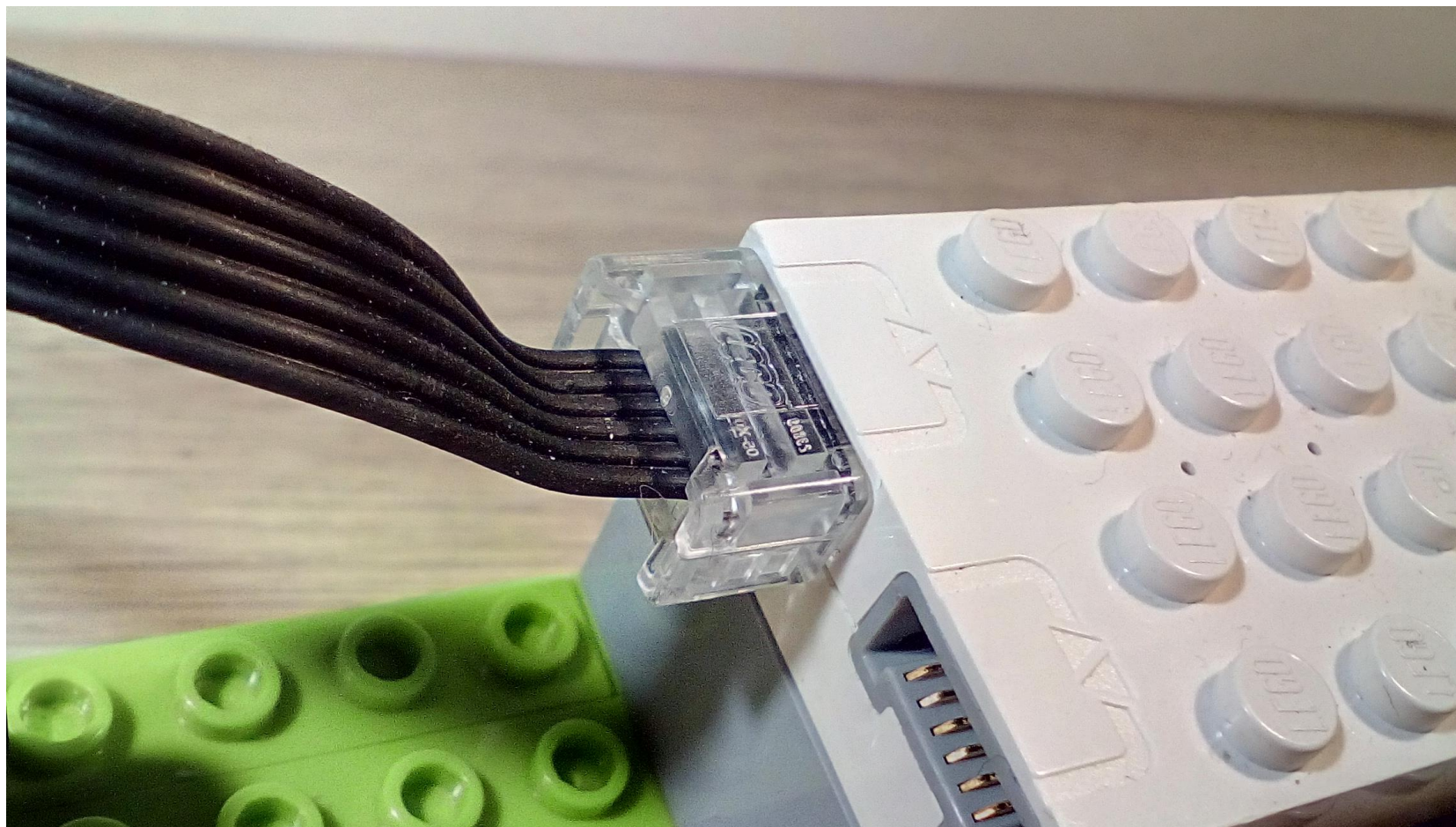
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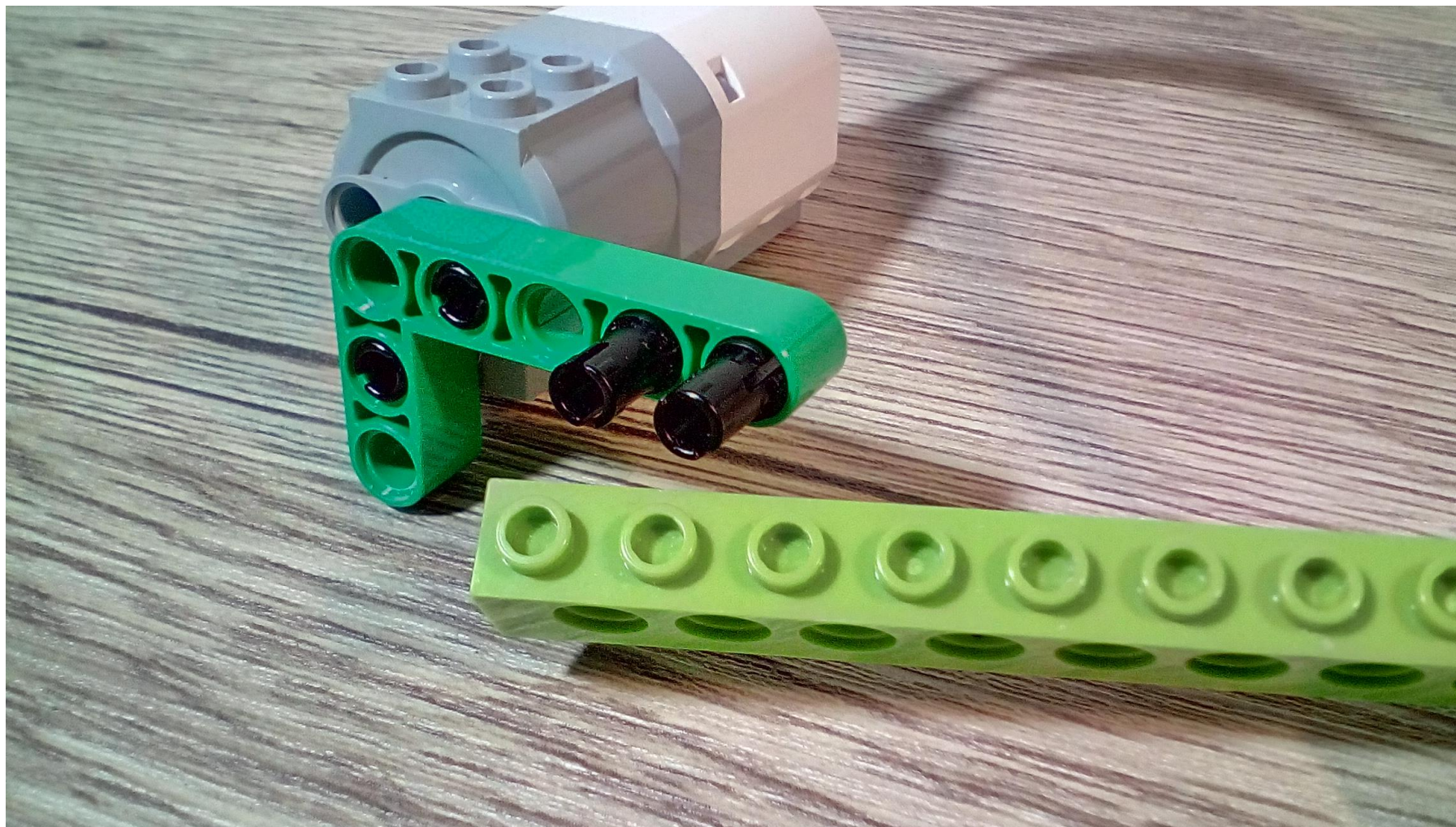
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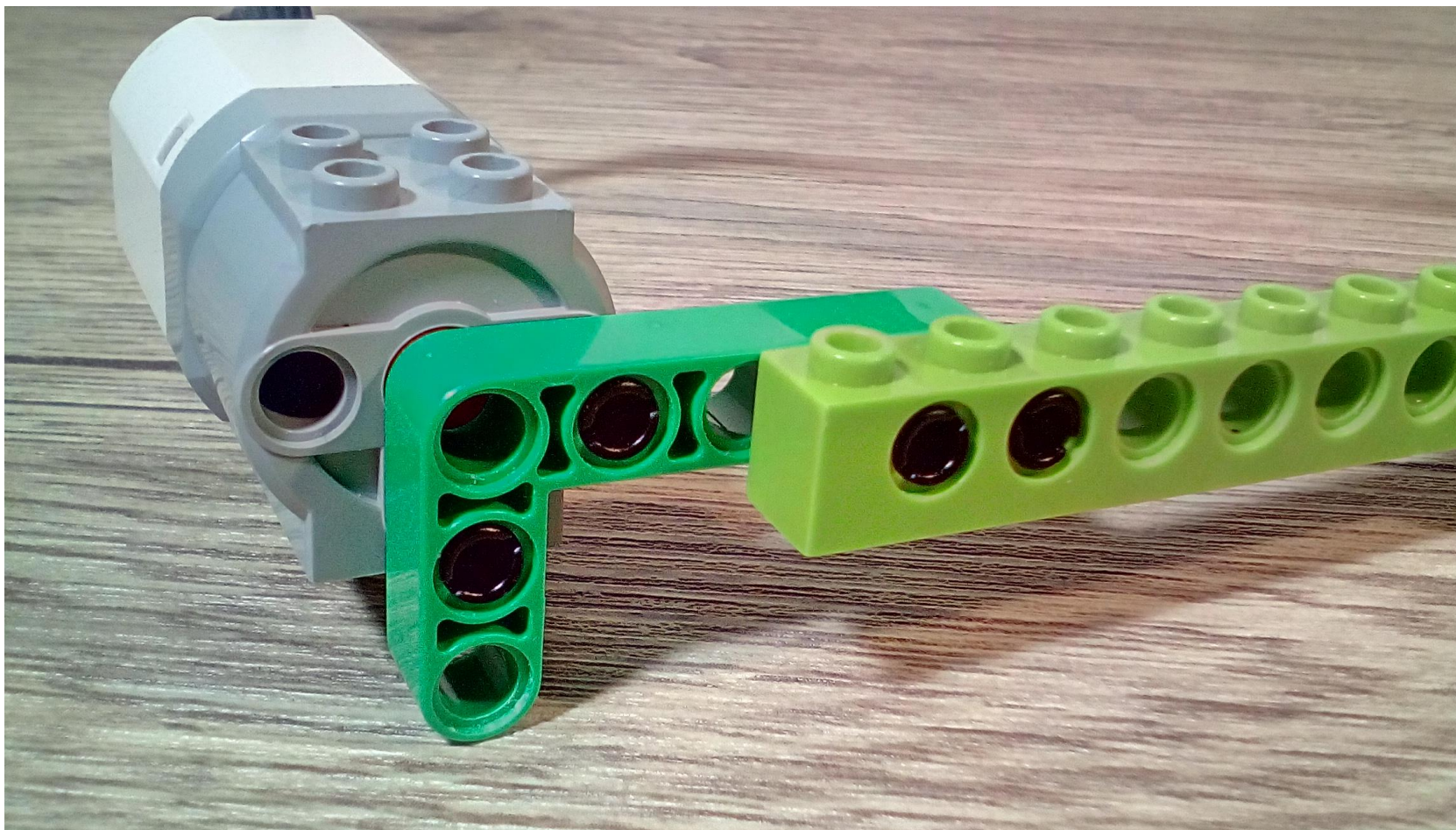
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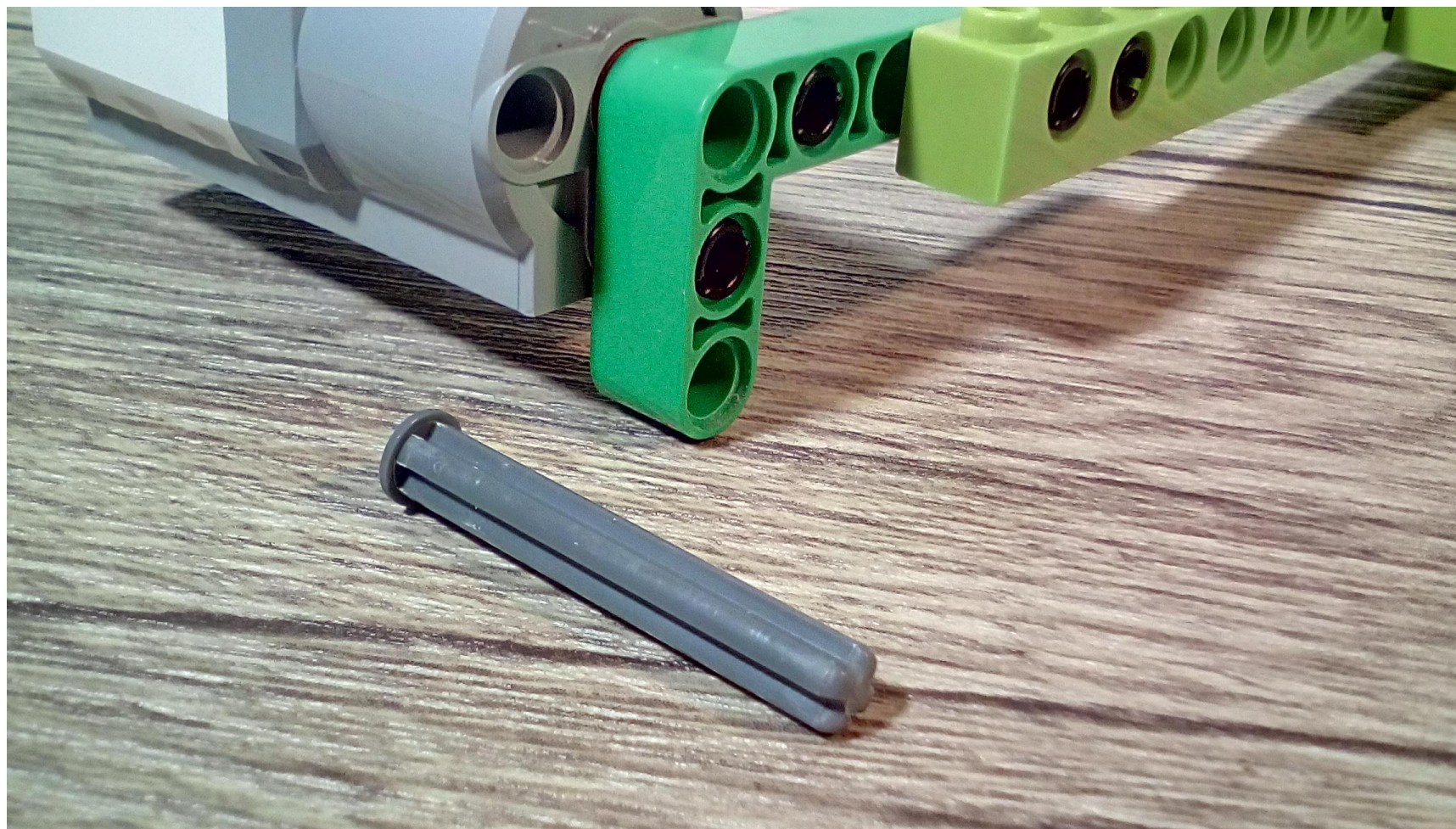
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61



62



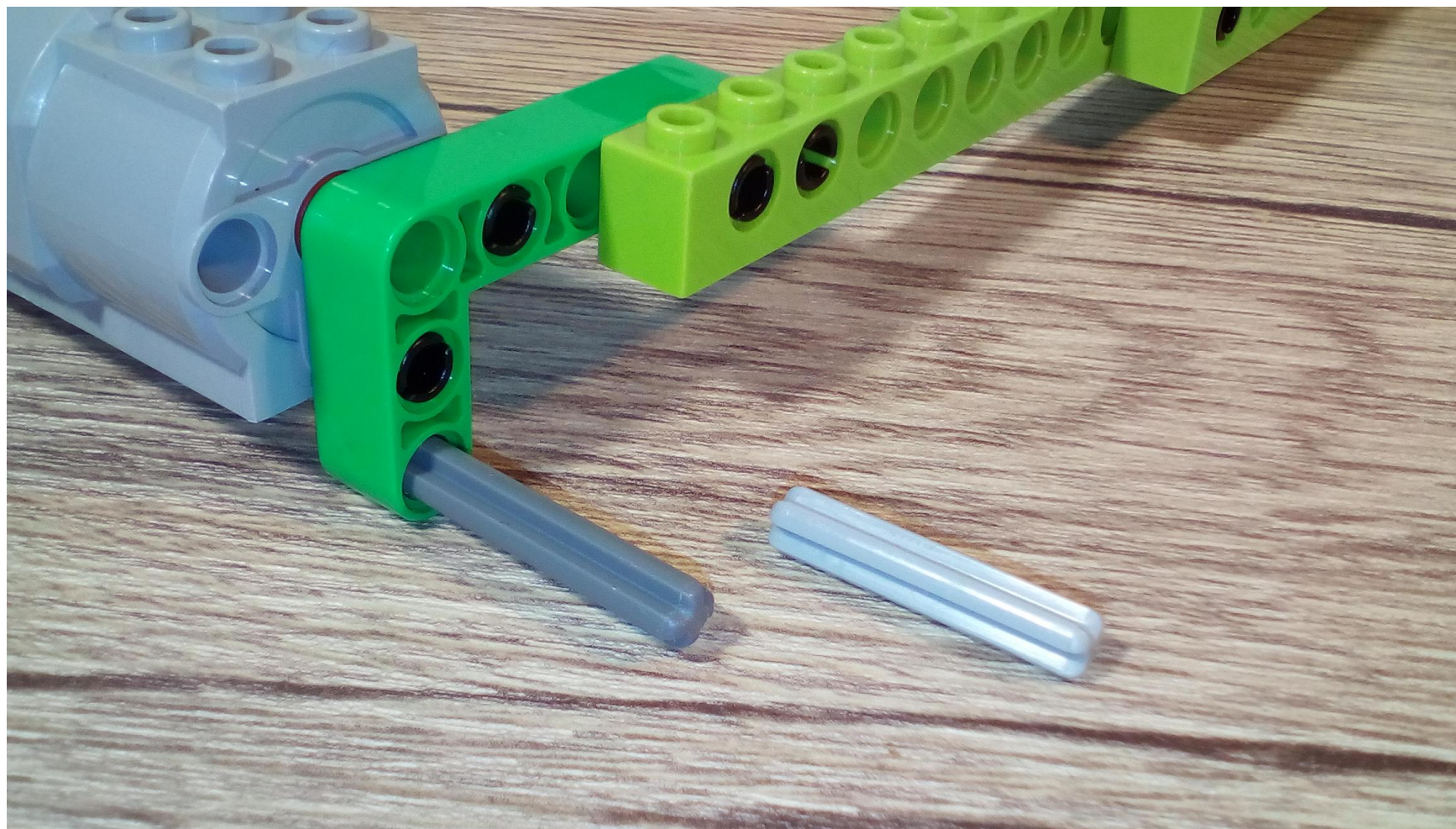
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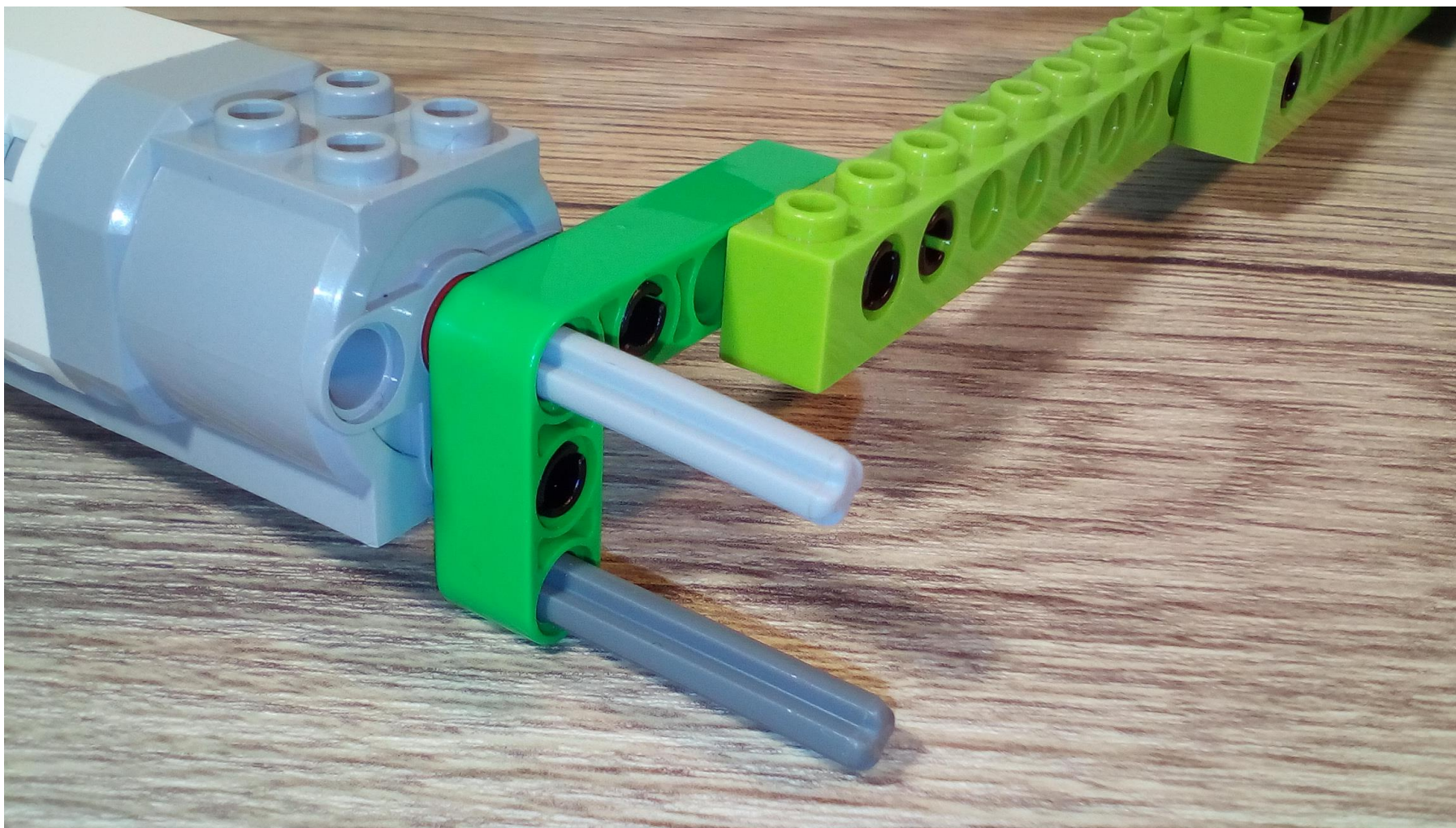
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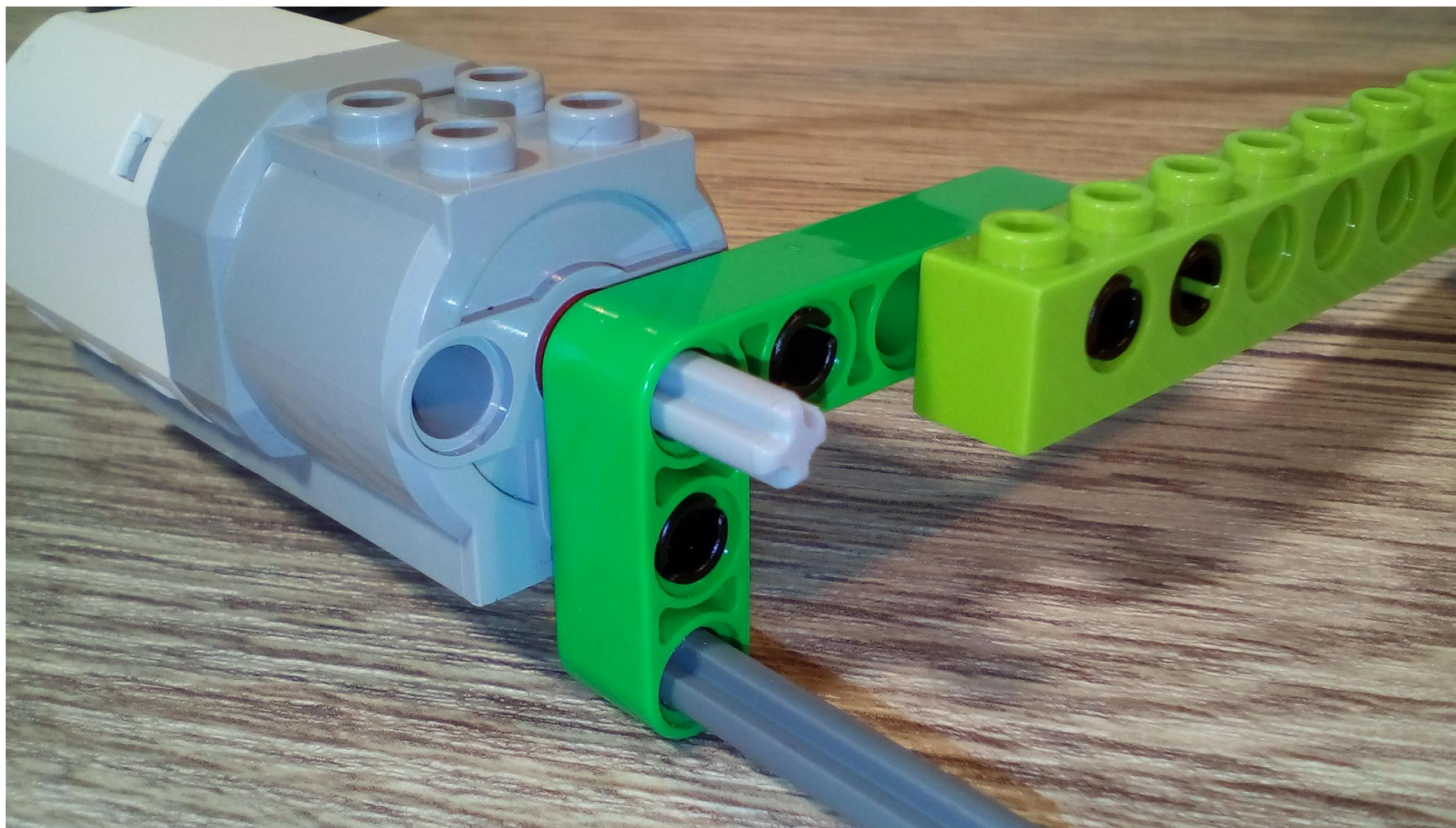
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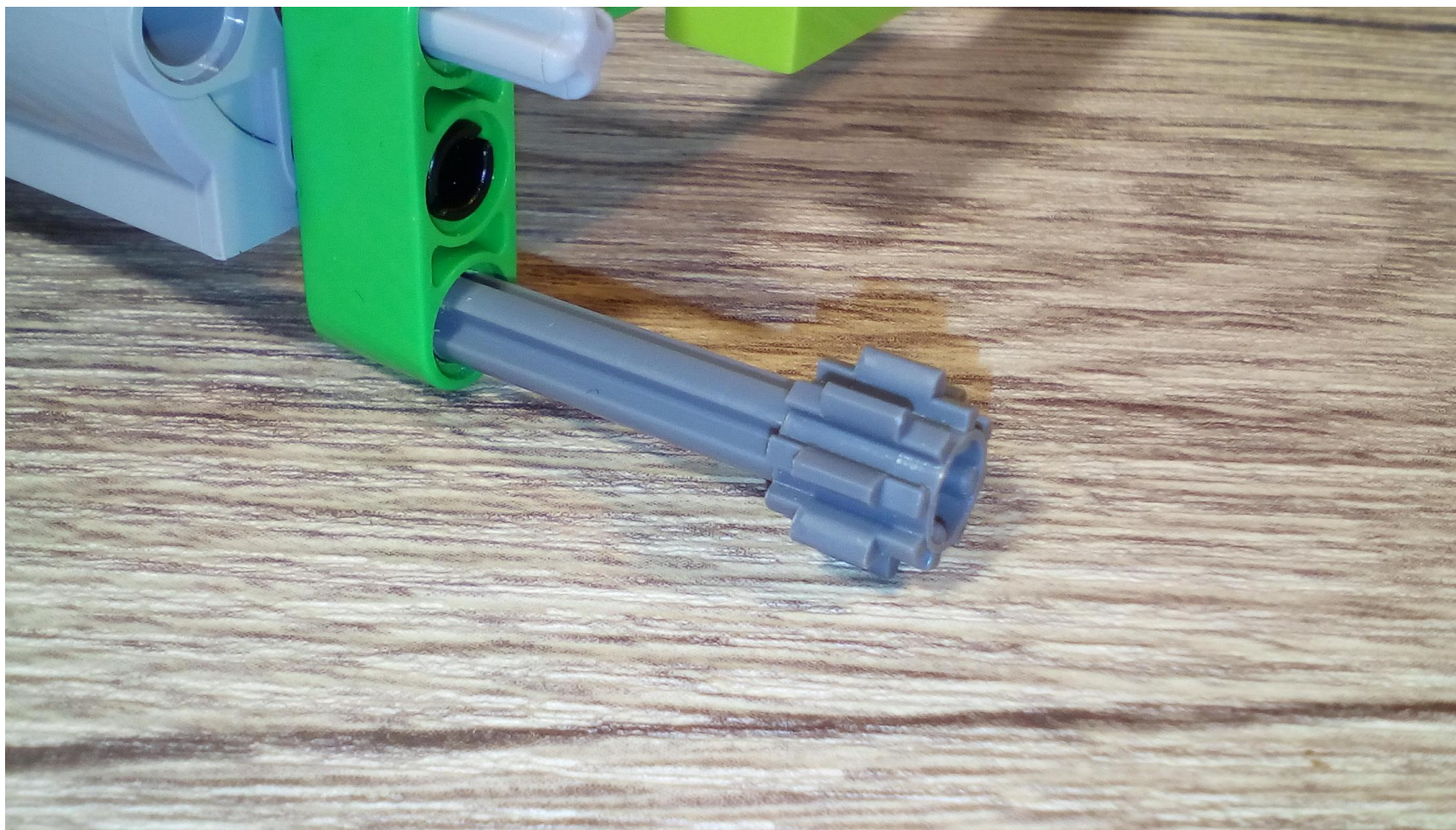
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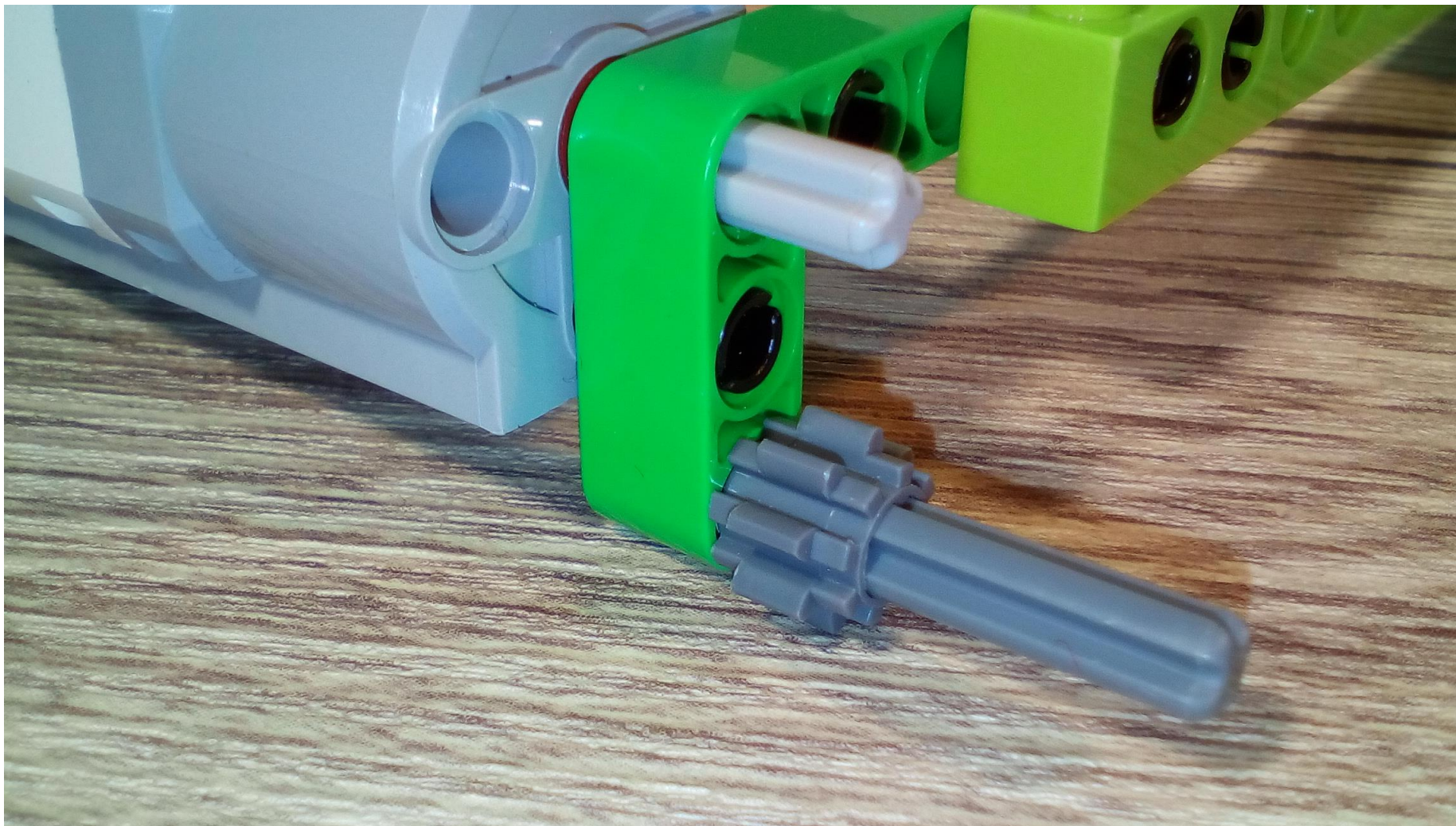
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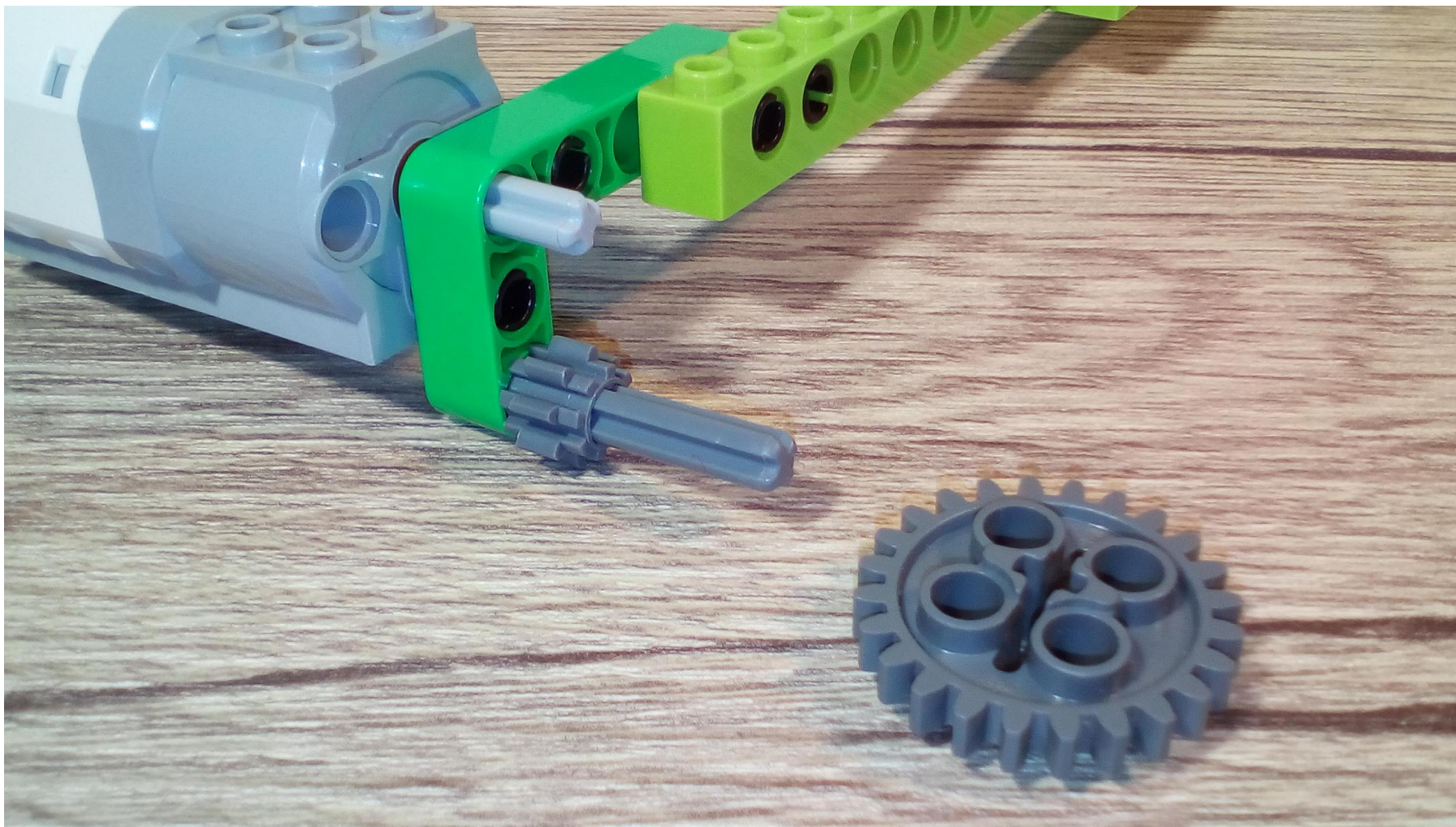
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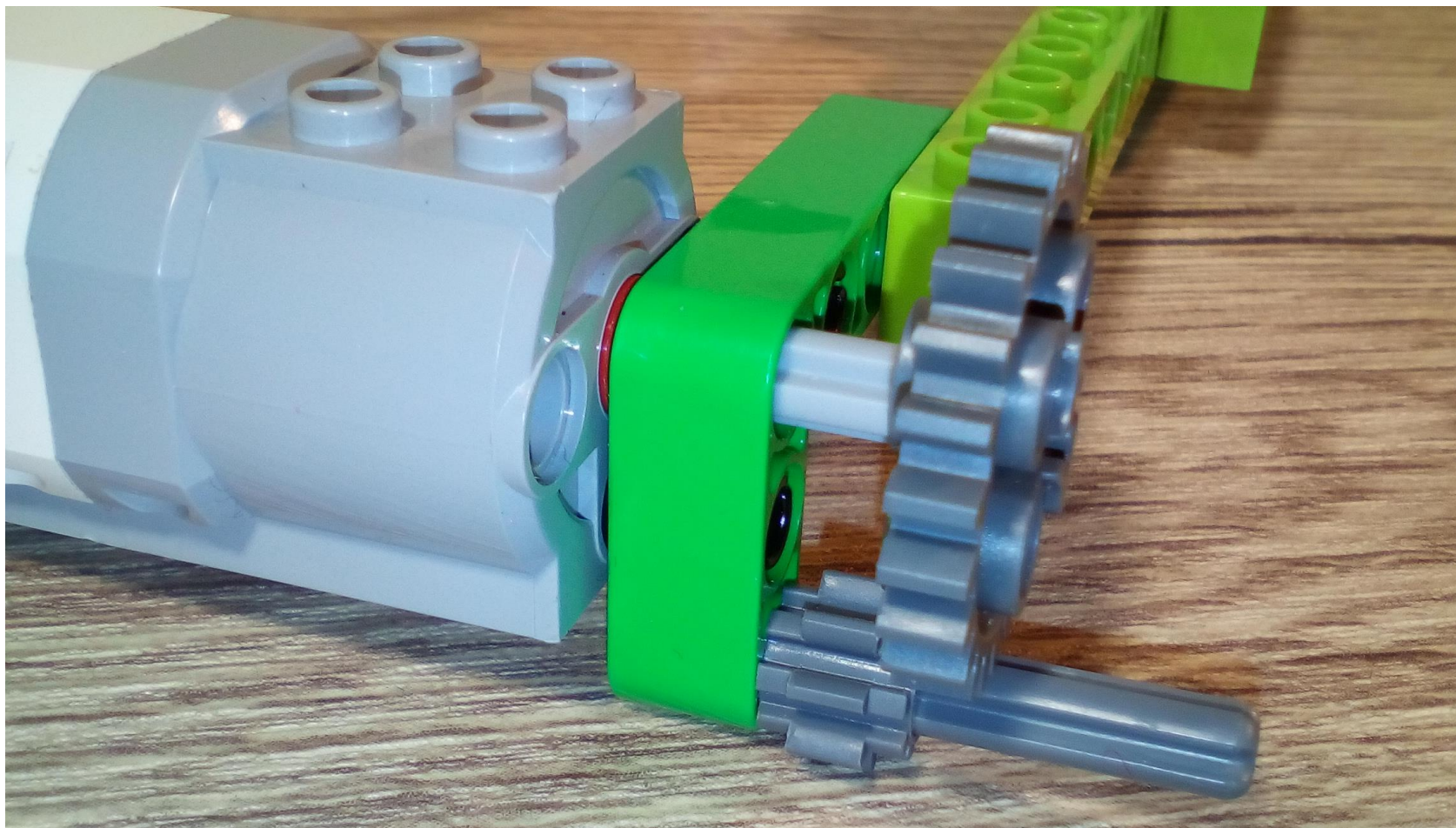
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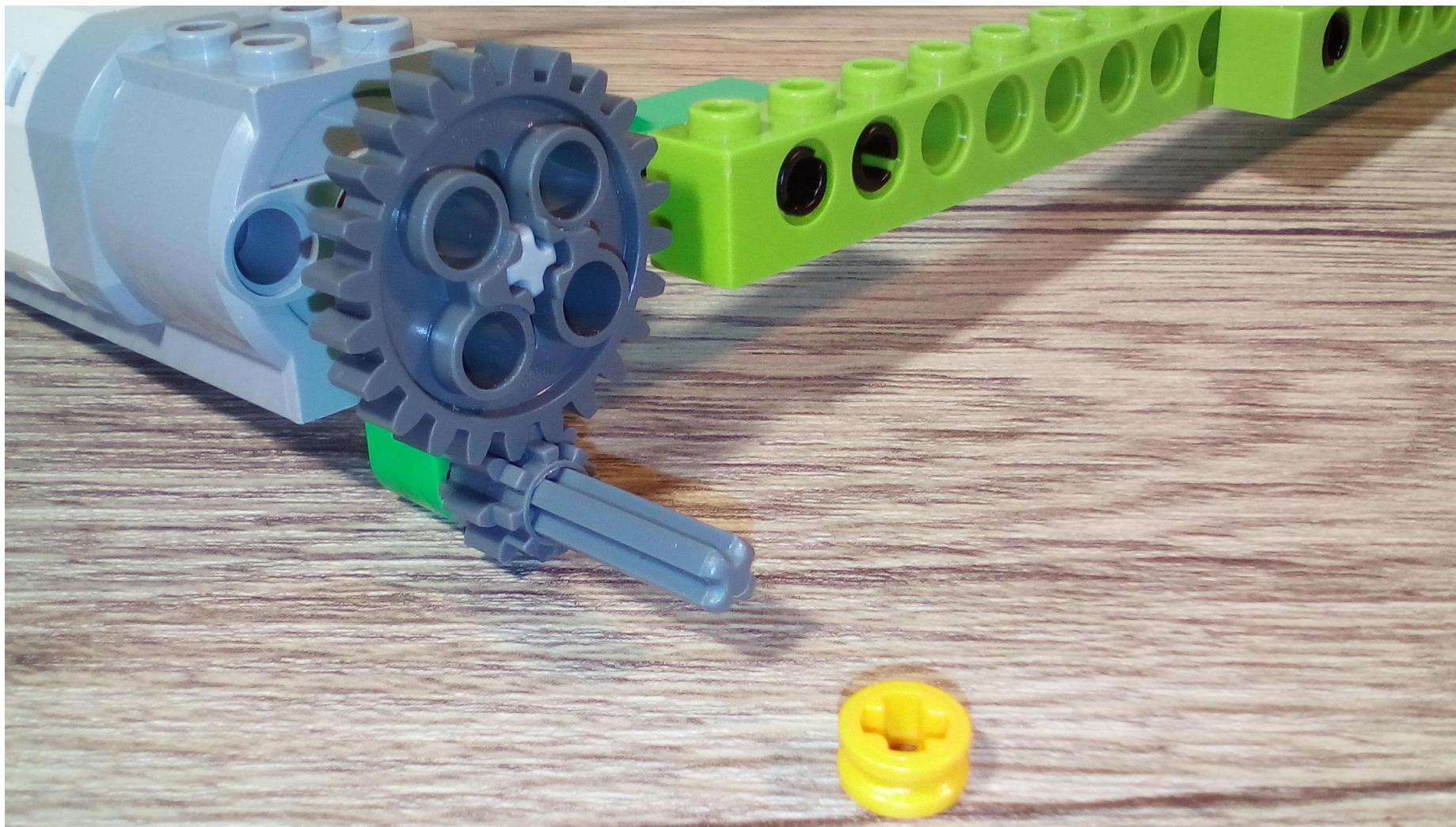
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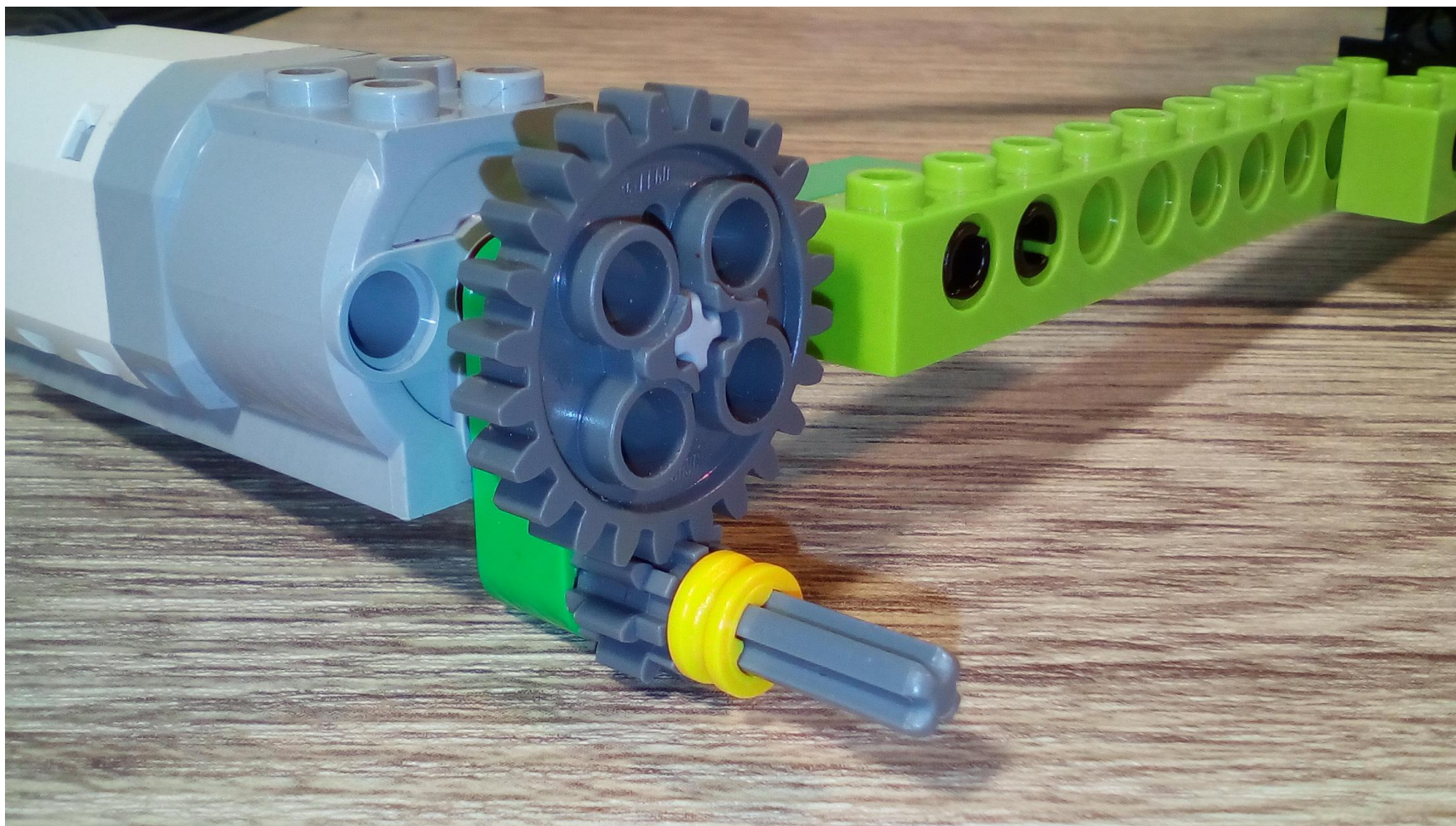
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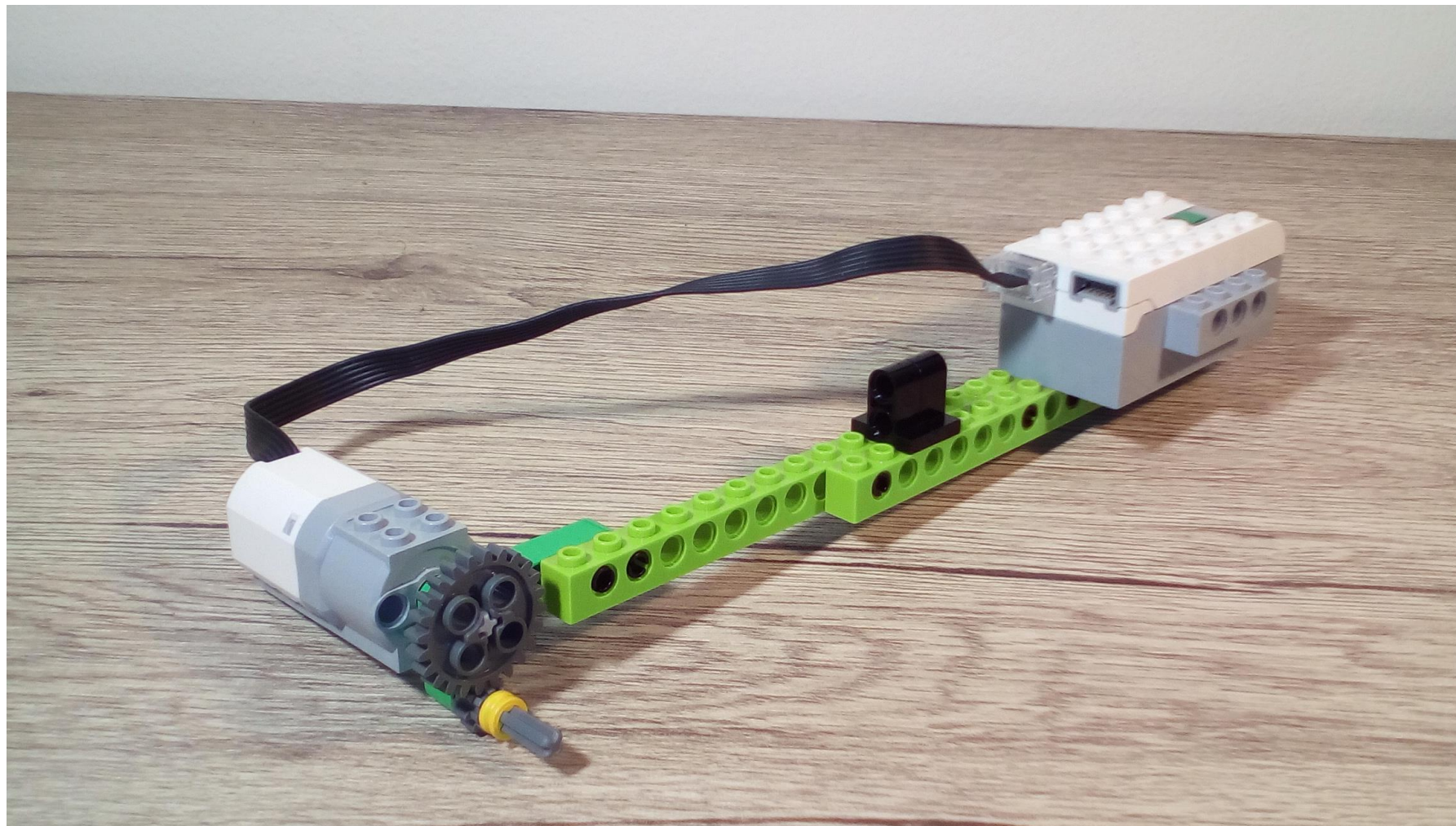
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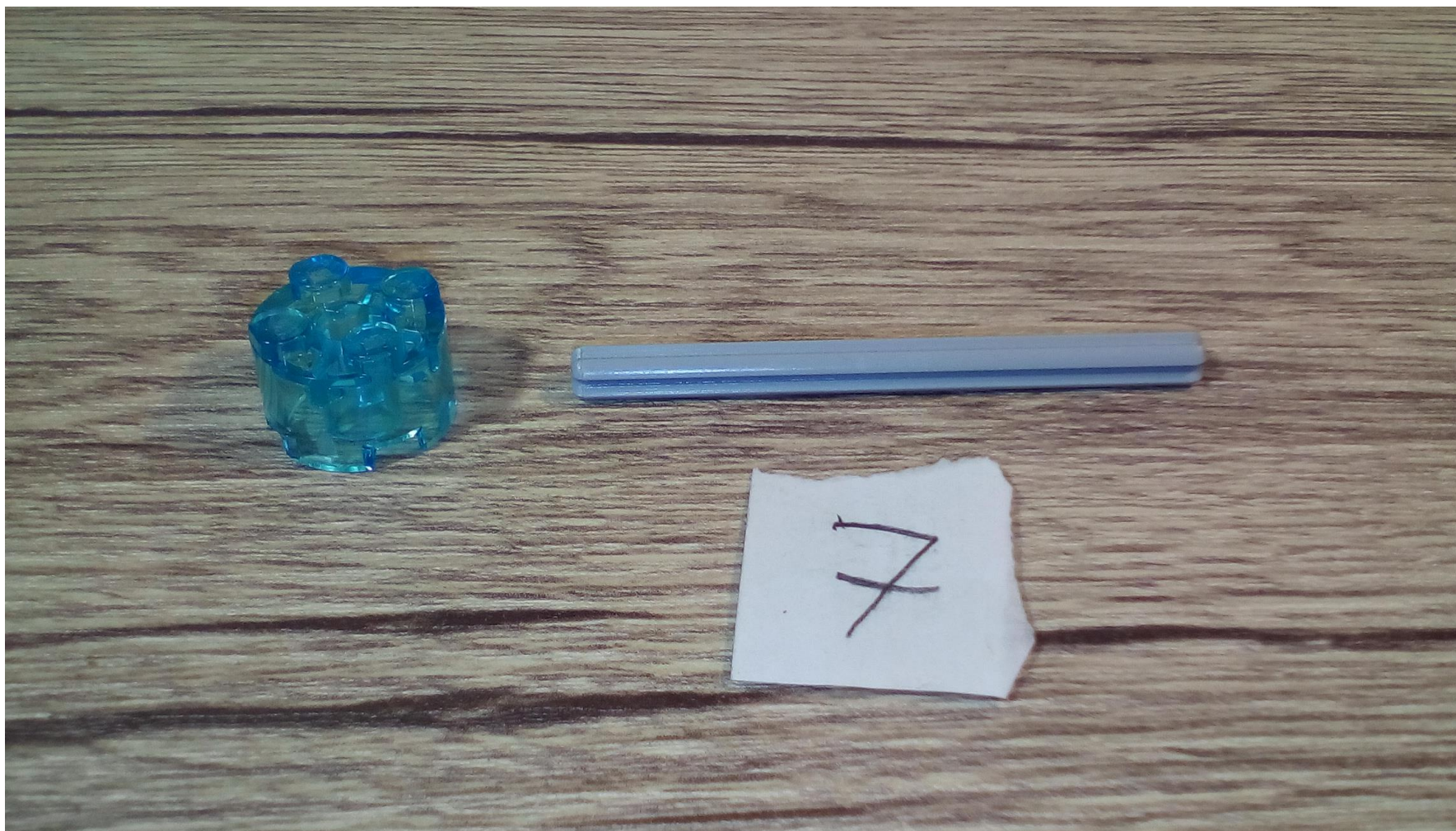
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75



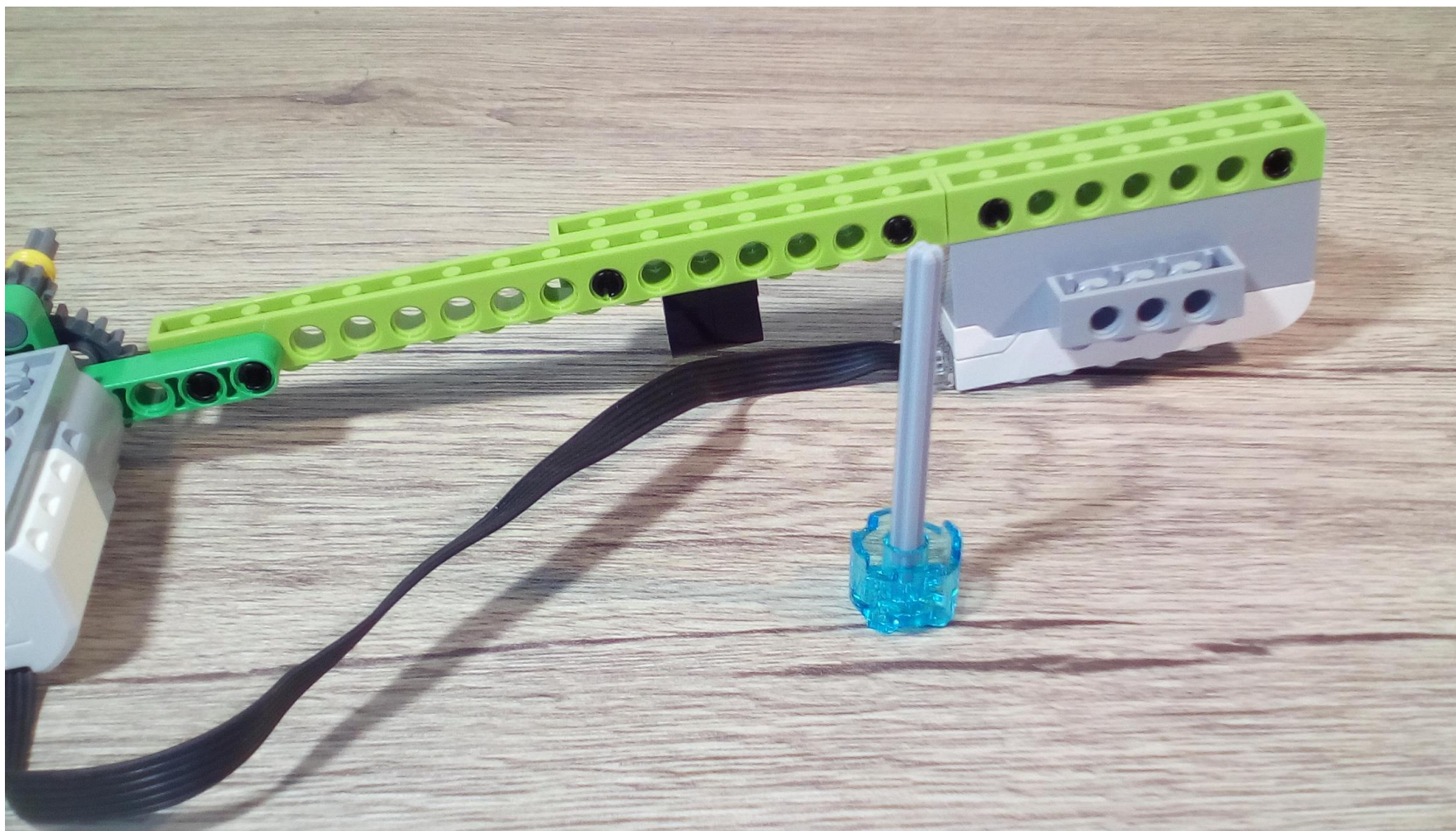
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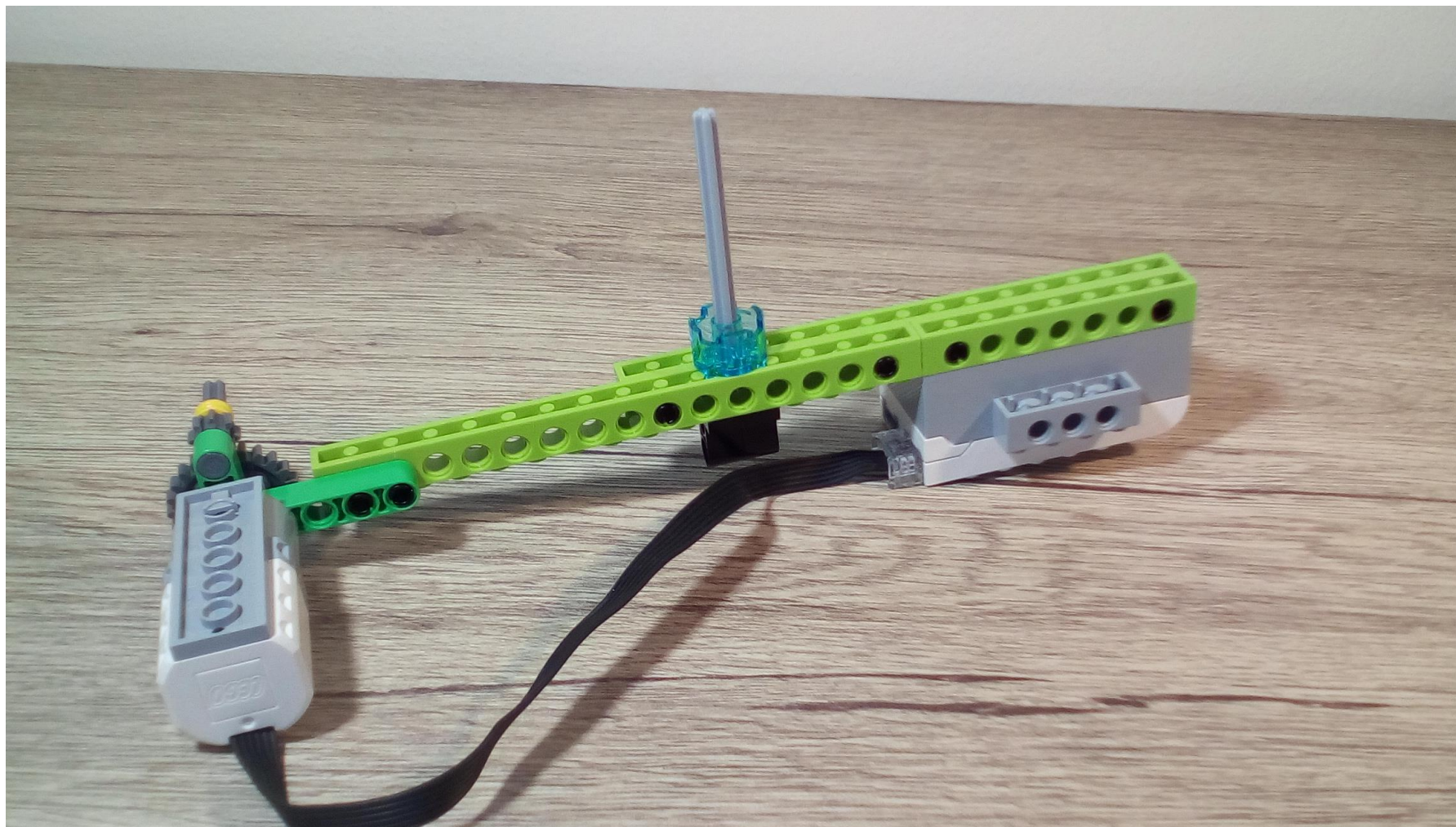
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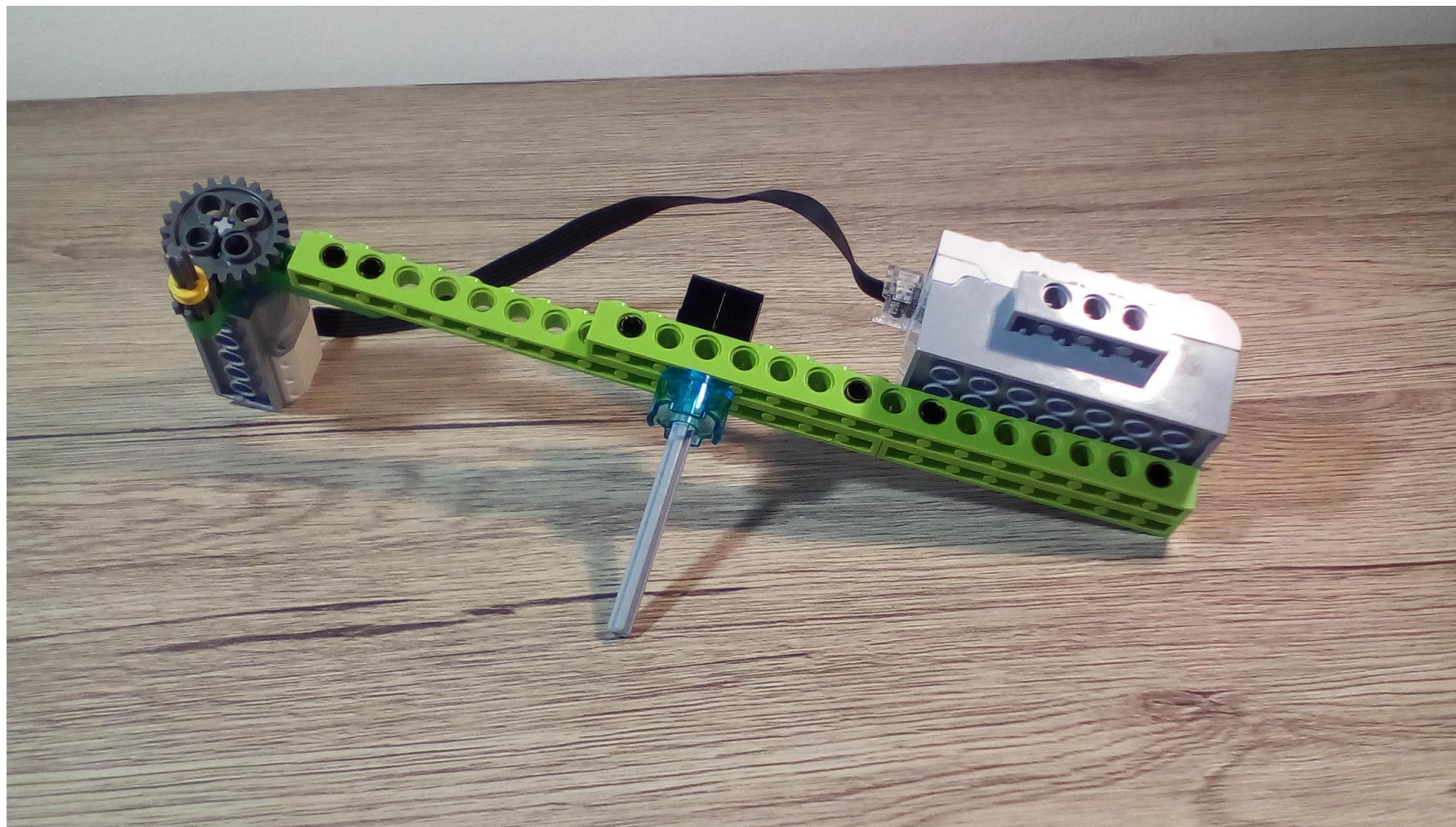
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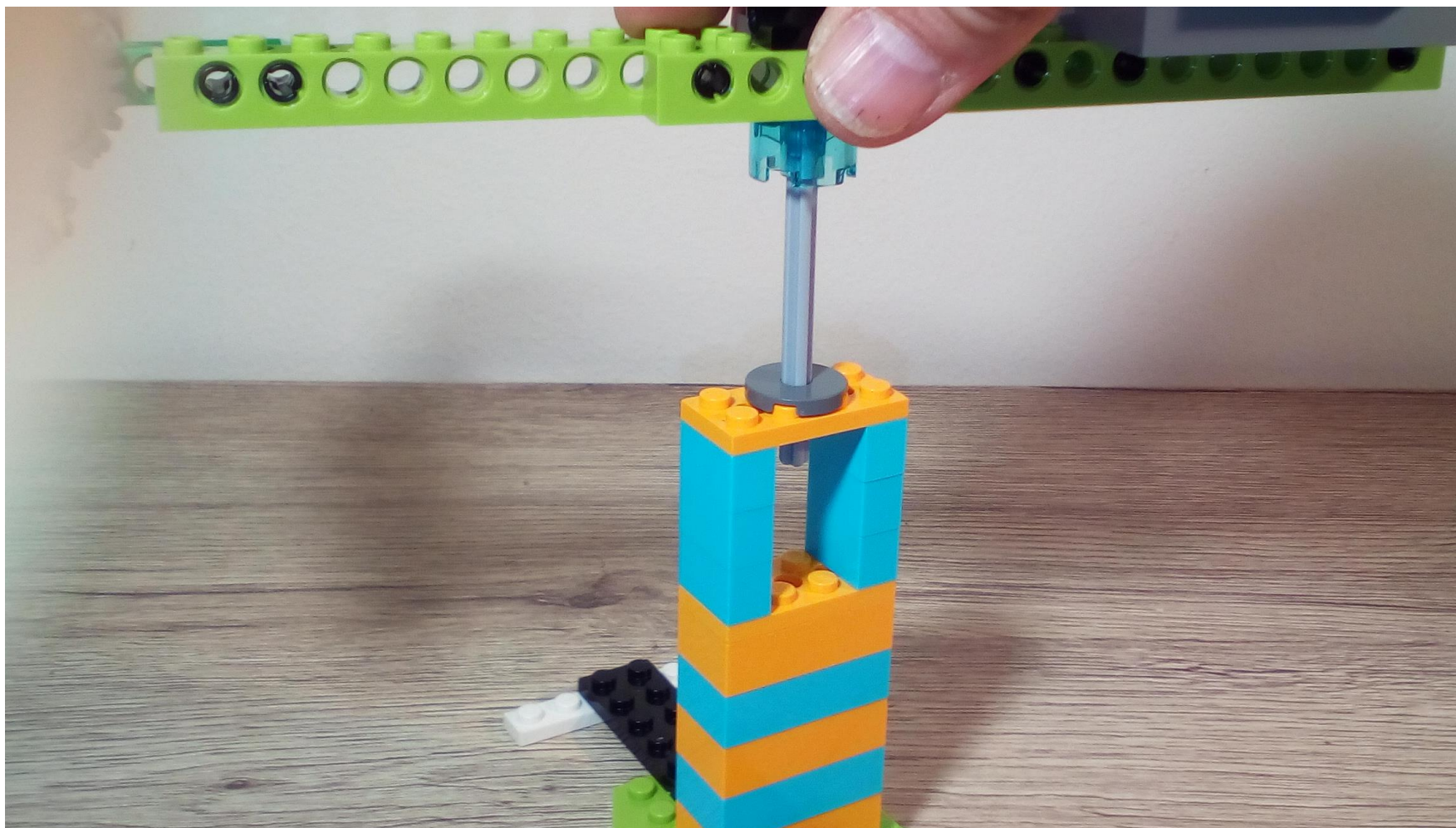
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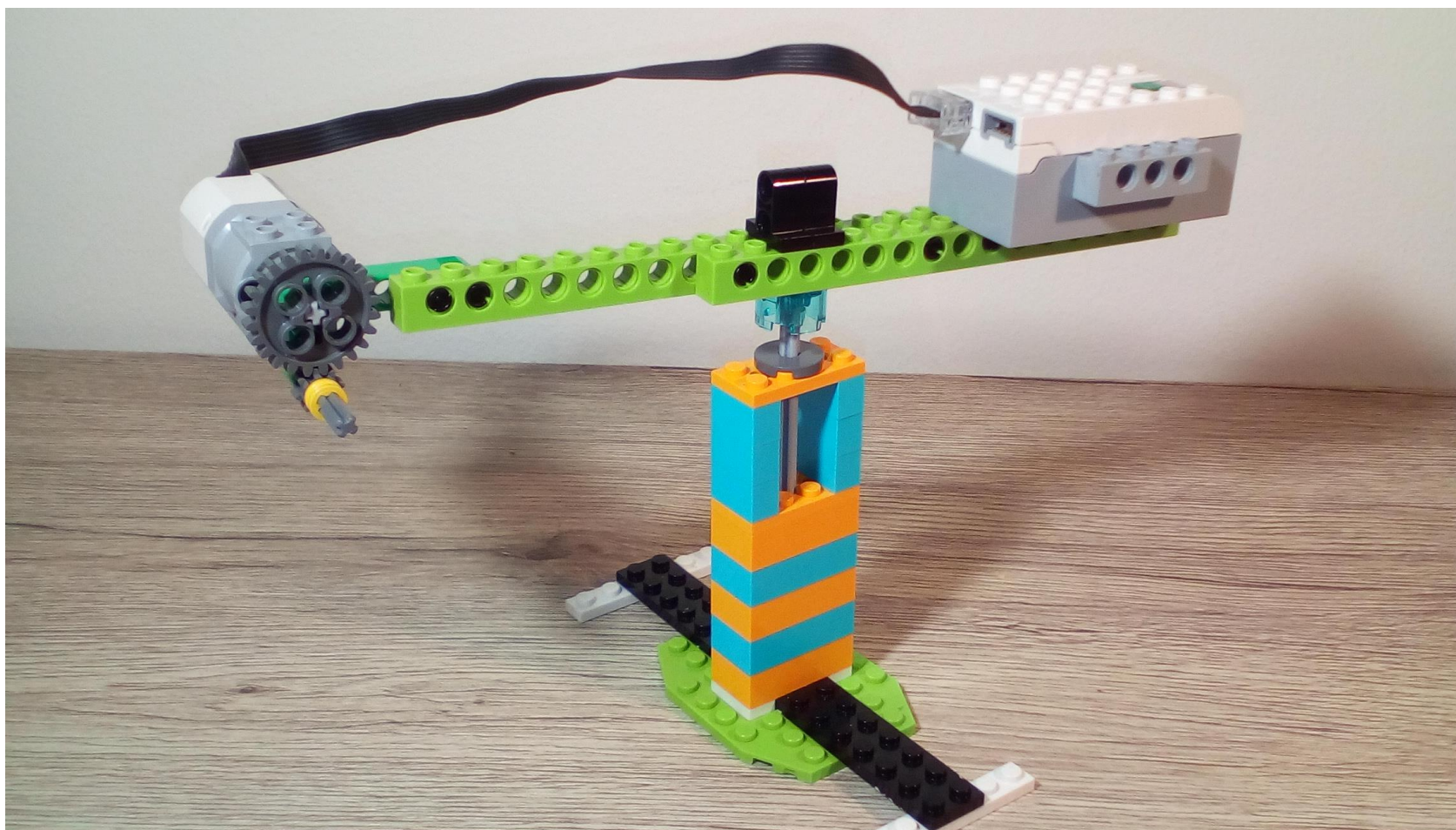
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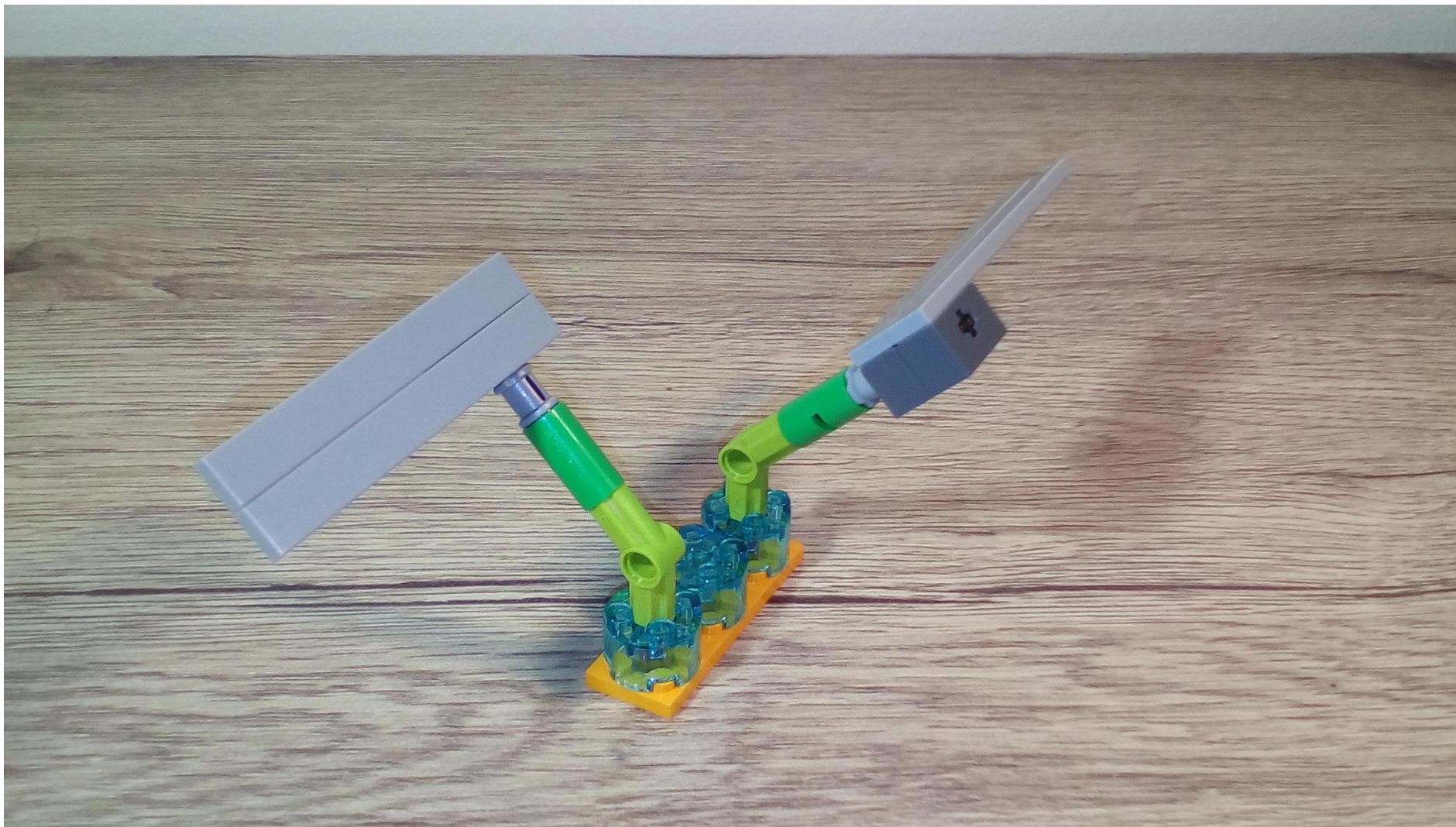
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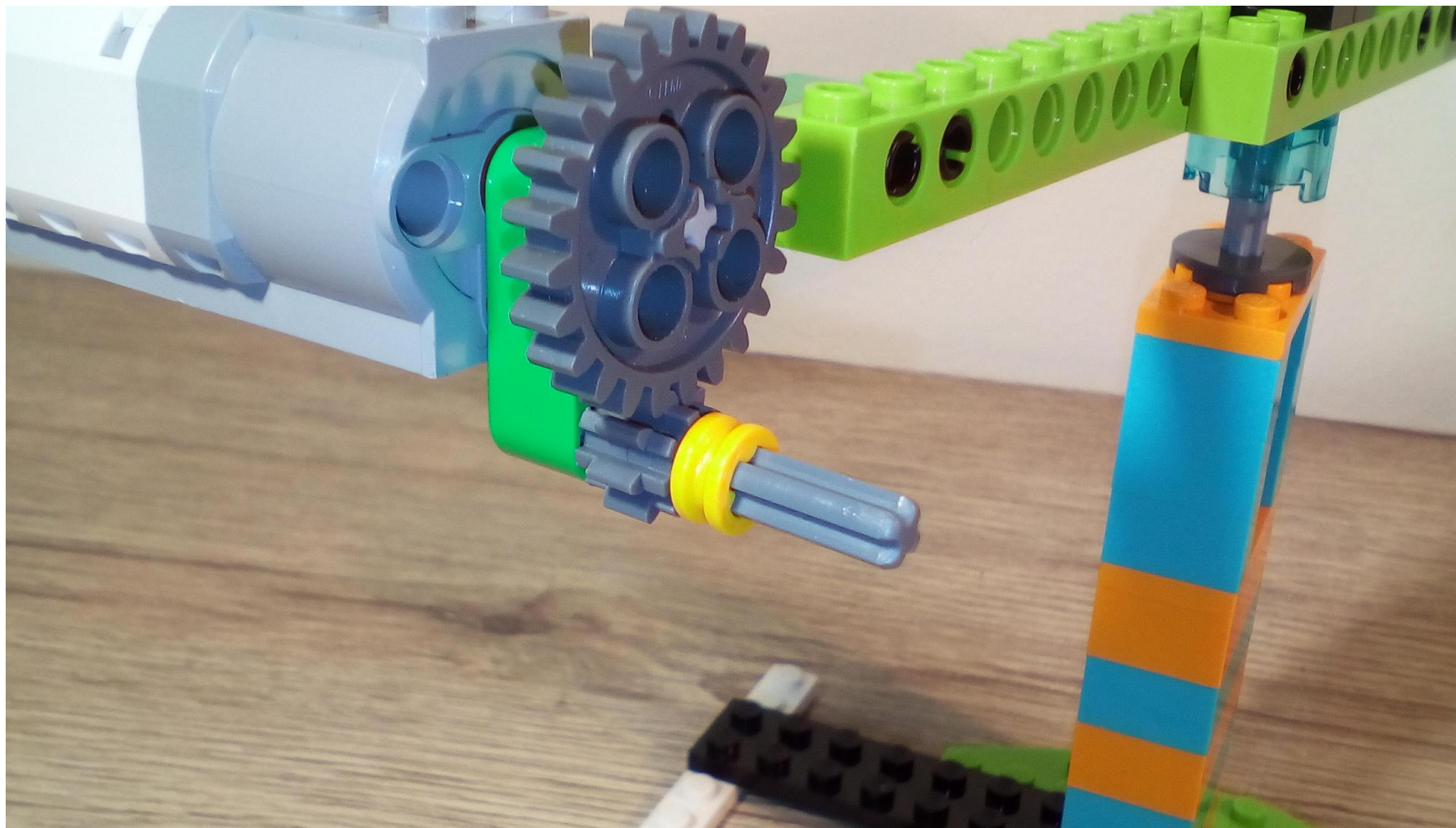
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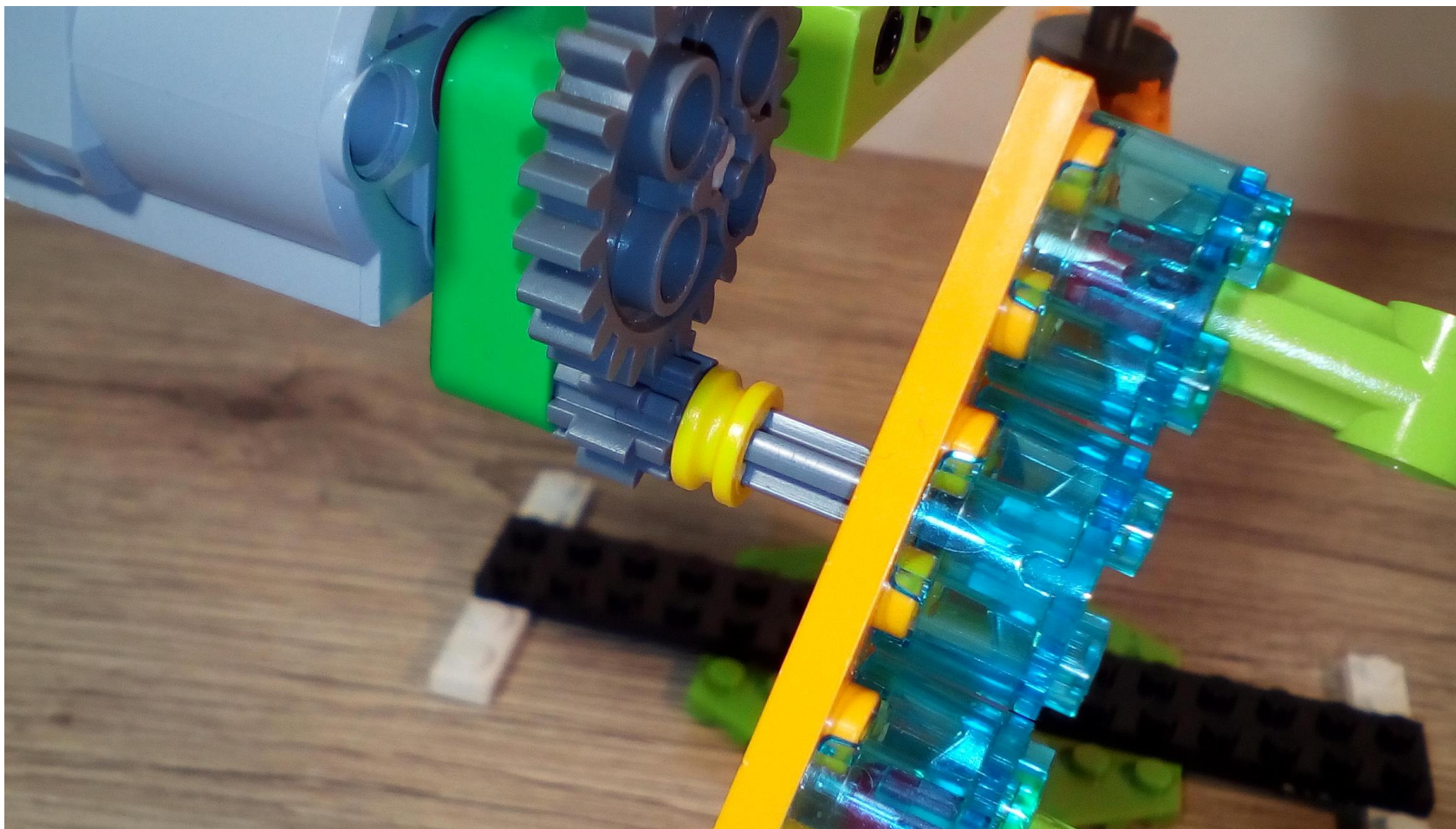
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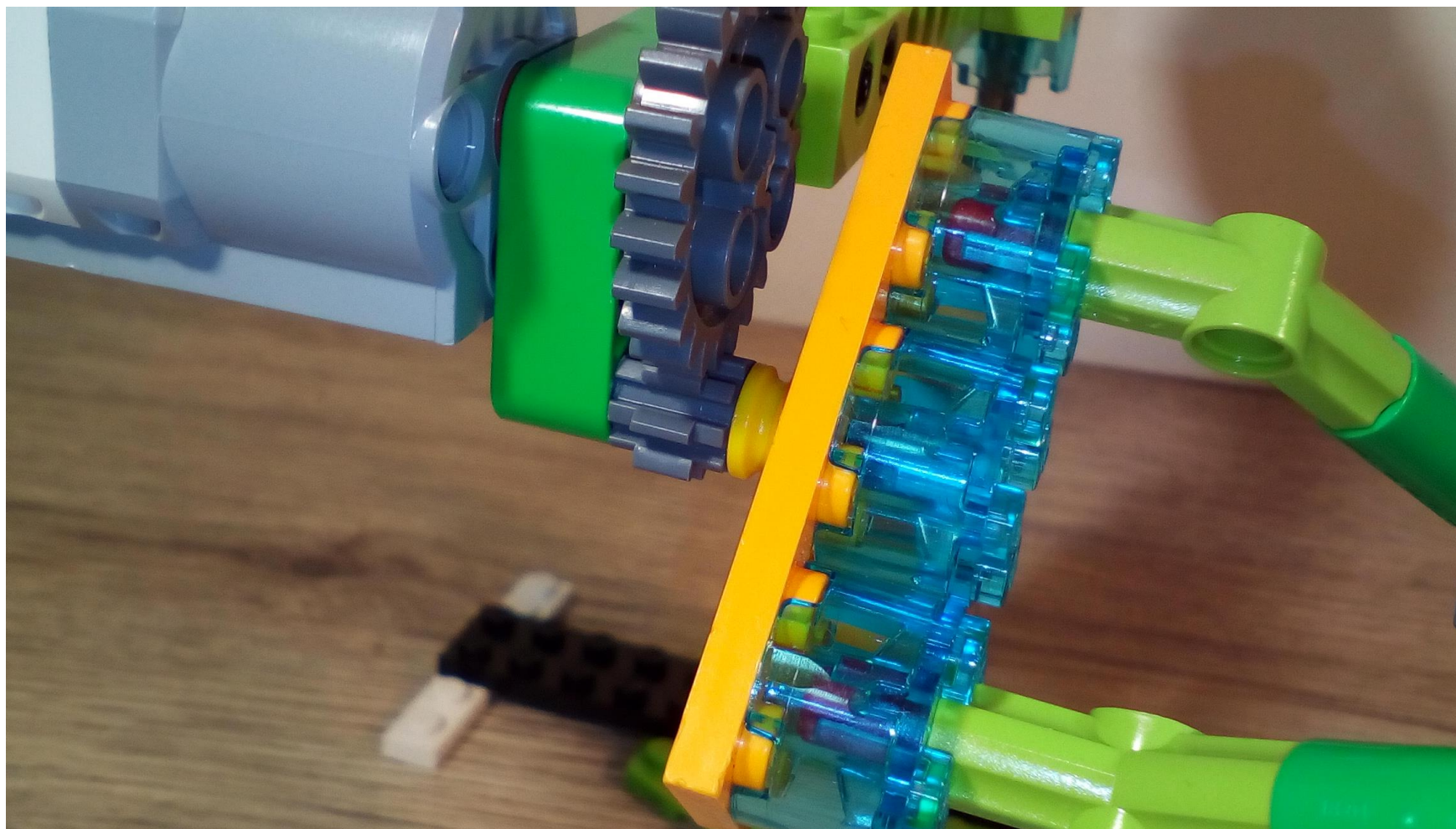
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86



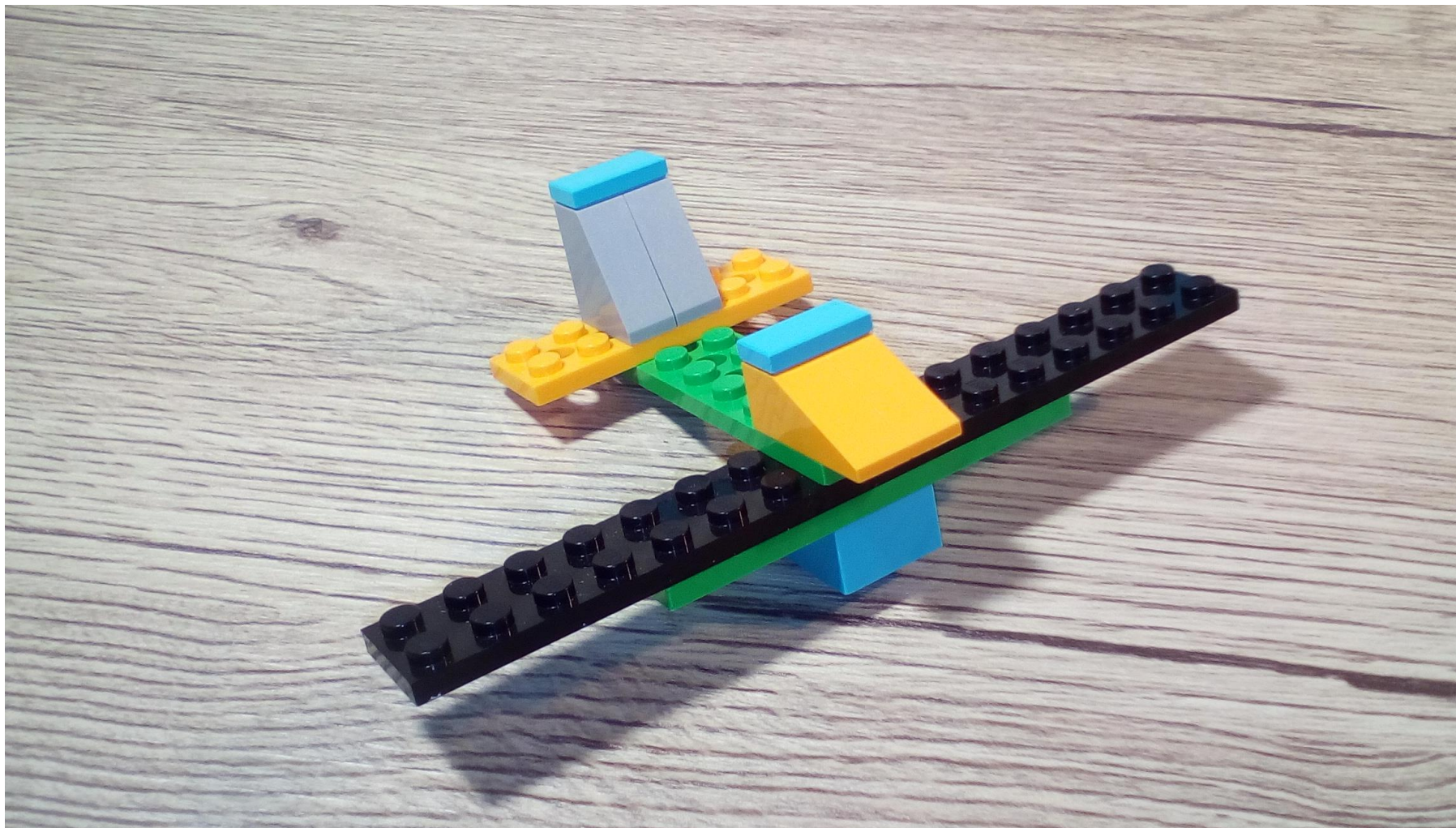
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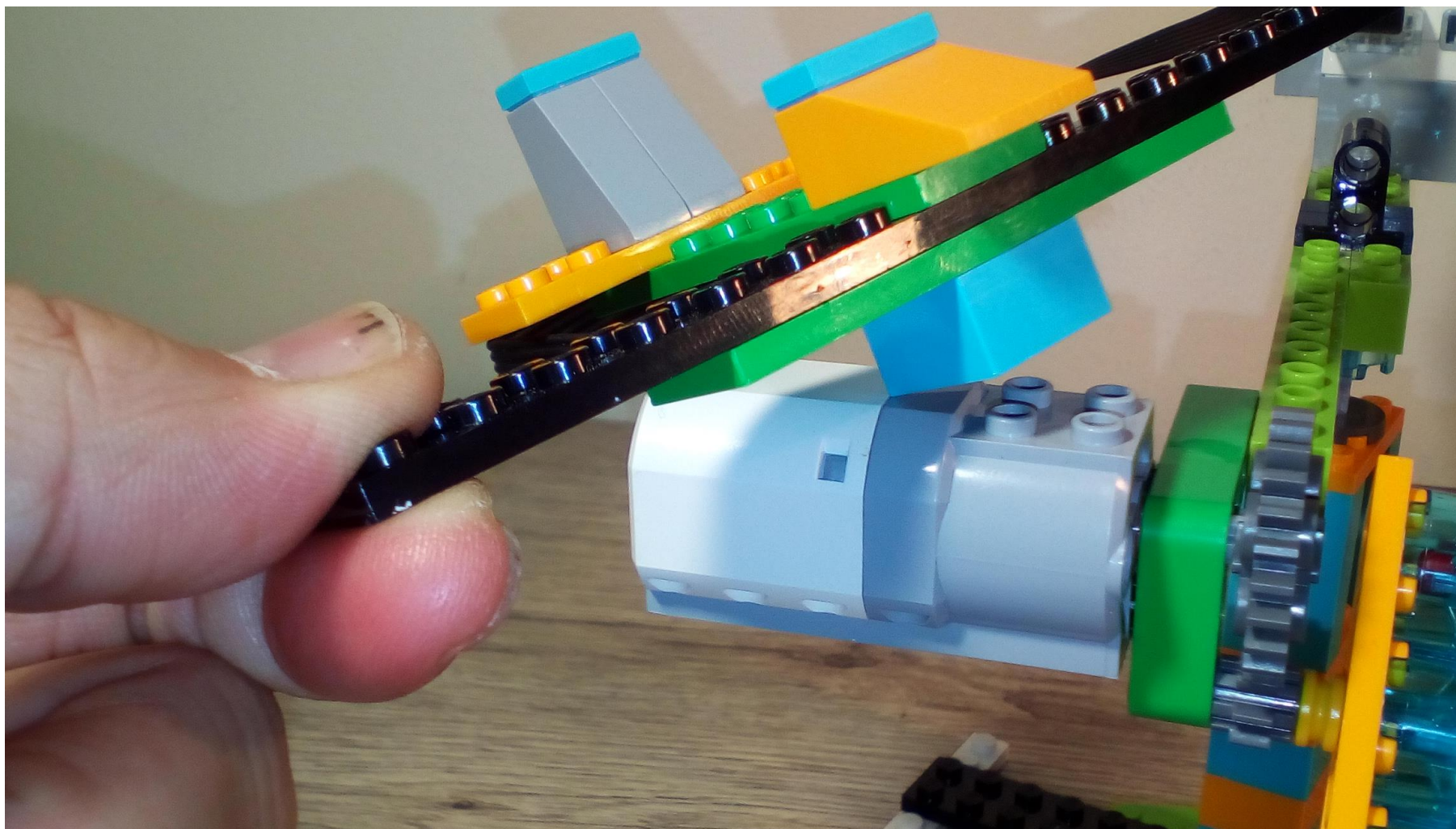
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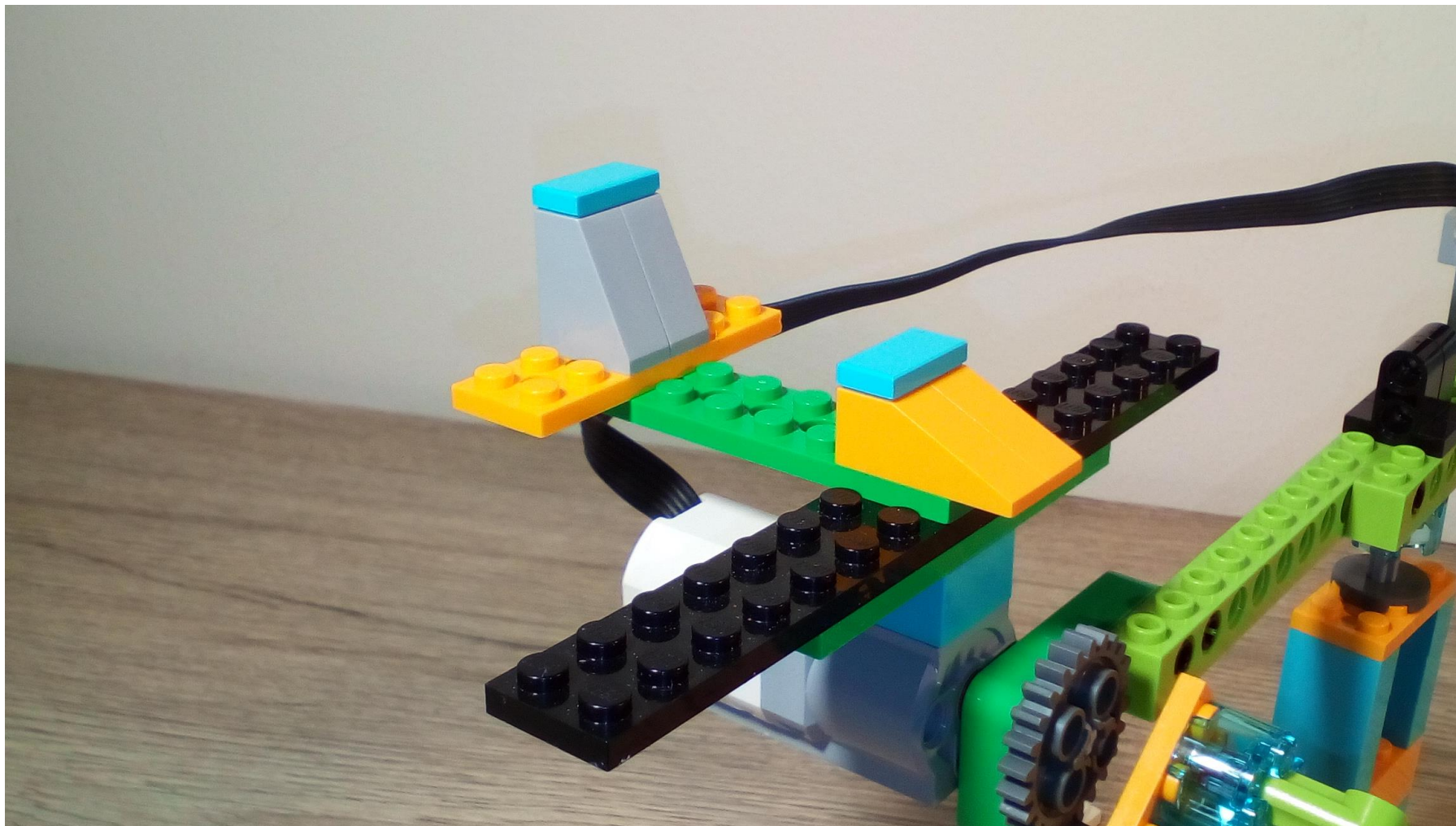
89



90



91



92



93



Отворете таблетите/компютрите си и копирайте кода по-долу.



Когато завършите работния лист,
разглобете конструкцията си
и сложете всички части на правилното им място.

