EST 2014

BOT SHOP

LET THE FUN BEGIN

Hello Walking robot

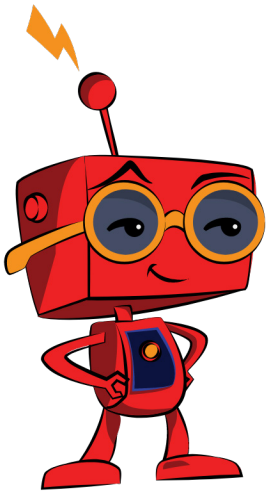
Discover the Joy's of a
Mechanical Friend

Batteries
NOT
included

AA AA

level

Walking robot



Hi there!
I'm Mr Sparkz
Let me introduce
you to my huge
friend walking robot.

Hey there, little creator!

Once we're up and running, we'll embark on incredible adventures together. Picture us strolling through imaginary lands, exploring distant planets, and solving exciting challenges along the way. We'll learn about the wonders of science, technology, engineering, and mathematics - all while having a blast!

Let's see what we need and how to prepare:

How to get prepare:

- Before you start, you need to find a safe and clean place to work.
- If you have any questions or need help, you can ask your parents, a grownup or teacher and they will assist you.

Have fun!

Some things to keep in mind:

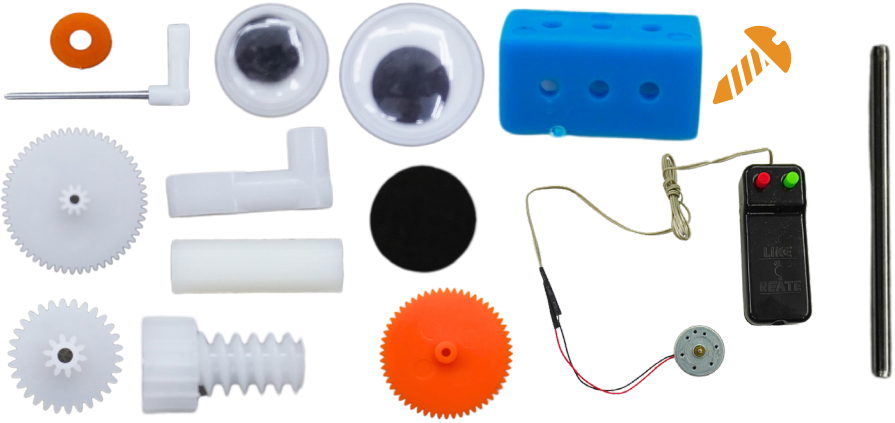
- *Be careful:* When you open the package with the parts, be careful not to drop or lose any small parts. They are very important for your model. If you lose a piece, your model might not work!

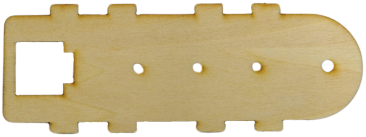
- *Read and follow:* If you want to make your model easily, you need to read the instructions well and follow the steps.

Remember to get your own 2 x AA batteries for the walking robot?

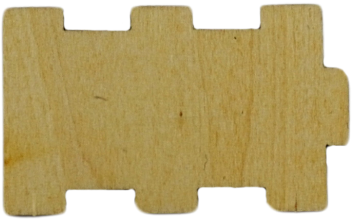
What is in the BOX

- 12 Wooden boards
- Screwdriver
- 1 x Axis
- 7 x Shafts
- 2 x Thick screws
- 2 x Pedestal
- 1 x Remote
- 1 x Motor
- 9 x Orange fixing rings
- 2 x Big googly eyes
- 2x Small googly eyes
- 1 x Big gear
- 1 x Small gear
- 3 x Orange gear
- 4 x Long screws
- 7 x Small screws
- 2 x Rockers
- 2 x Rotary shafts
- 1 x Growth teeth gear
- 1 x Helical gear
- 1 x Spacer
- 4 x Rubber stands



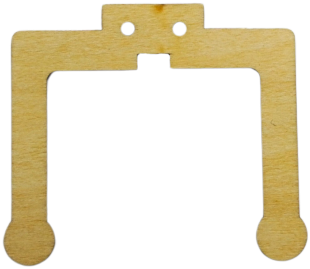


x 2 — 1



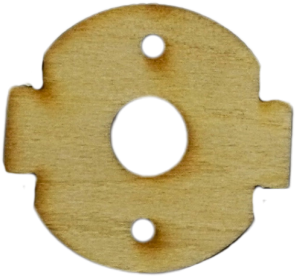
x 2 — 2

x 2 — 3

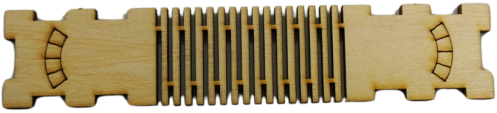


x 2 — 4

x 2 — 5

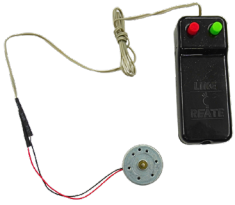


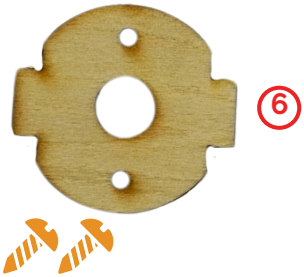
x 1 — 6



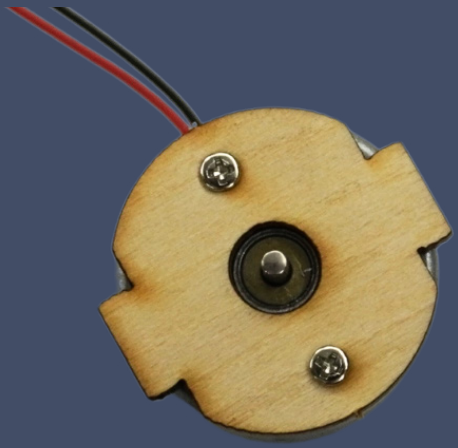
x 1 — 7

Step 1



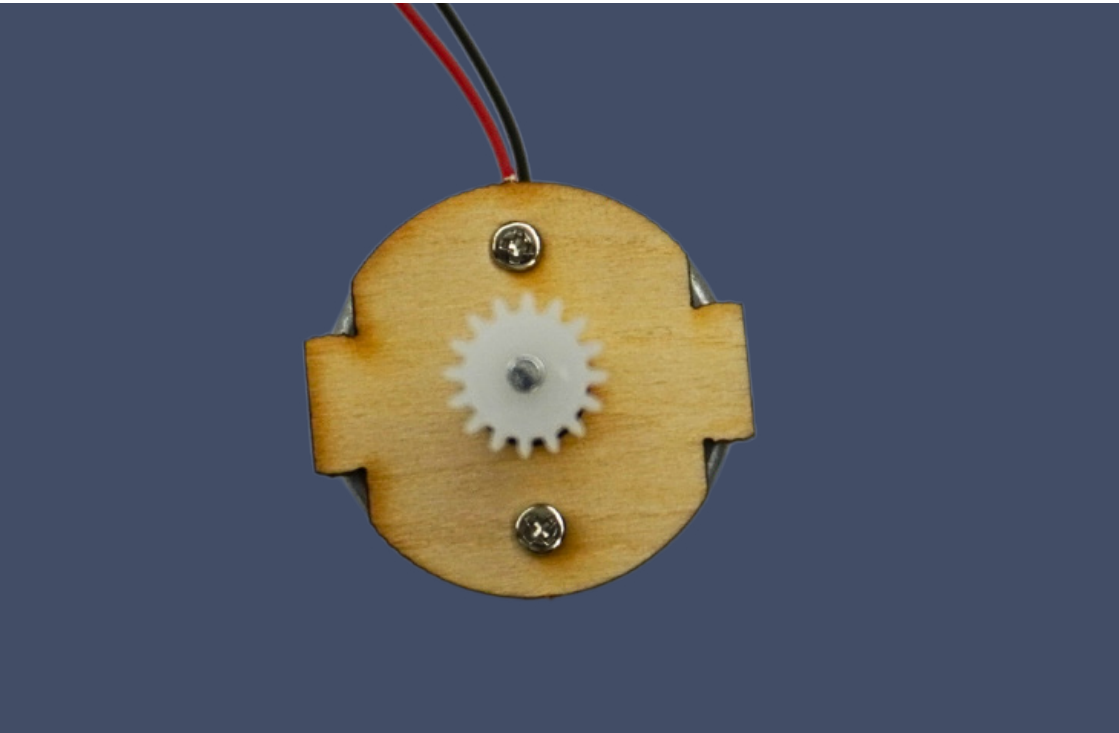


Attach board 6 to the motor using two small screws.

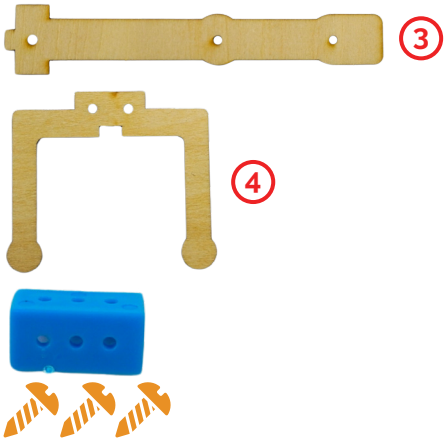


Step 2

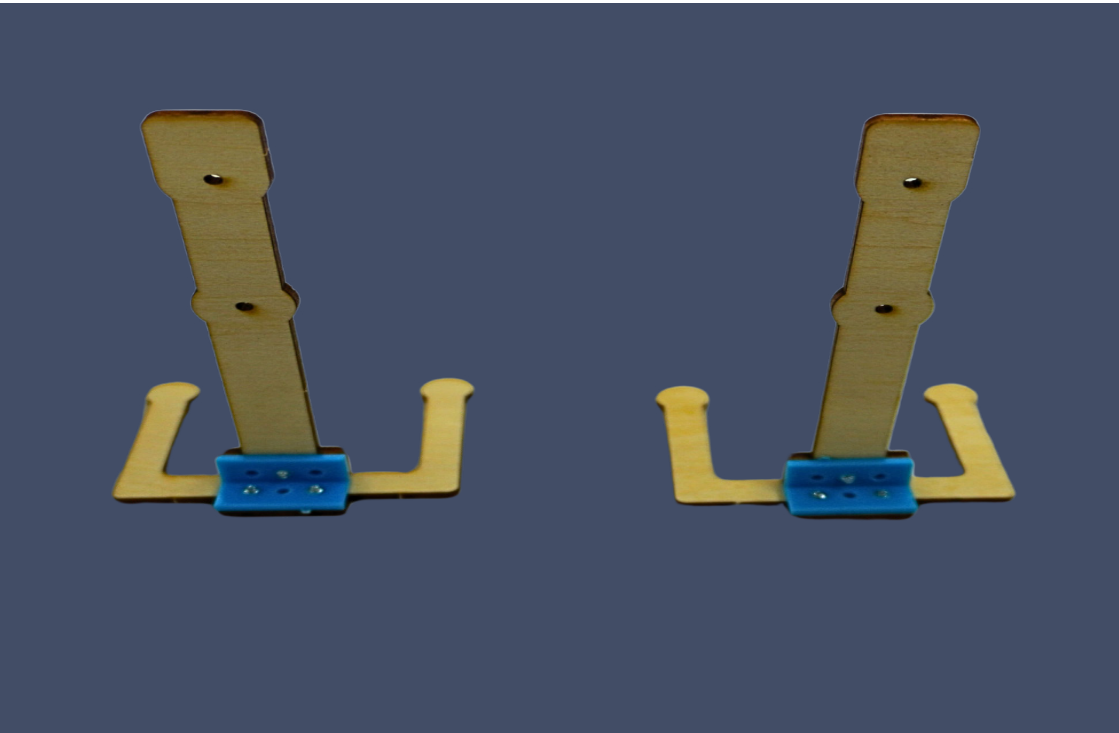
Place the helical gear onto the motor's shaft and secure it.



Step 3

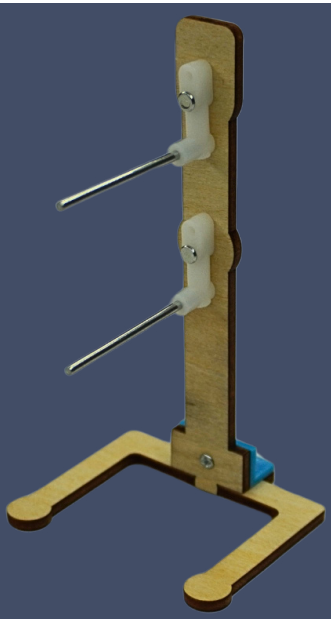


Attach the pedestal to boards 3 and 4 using three long screws.

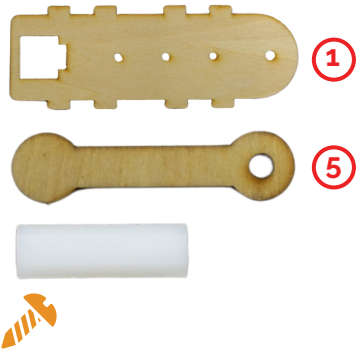


Step 4

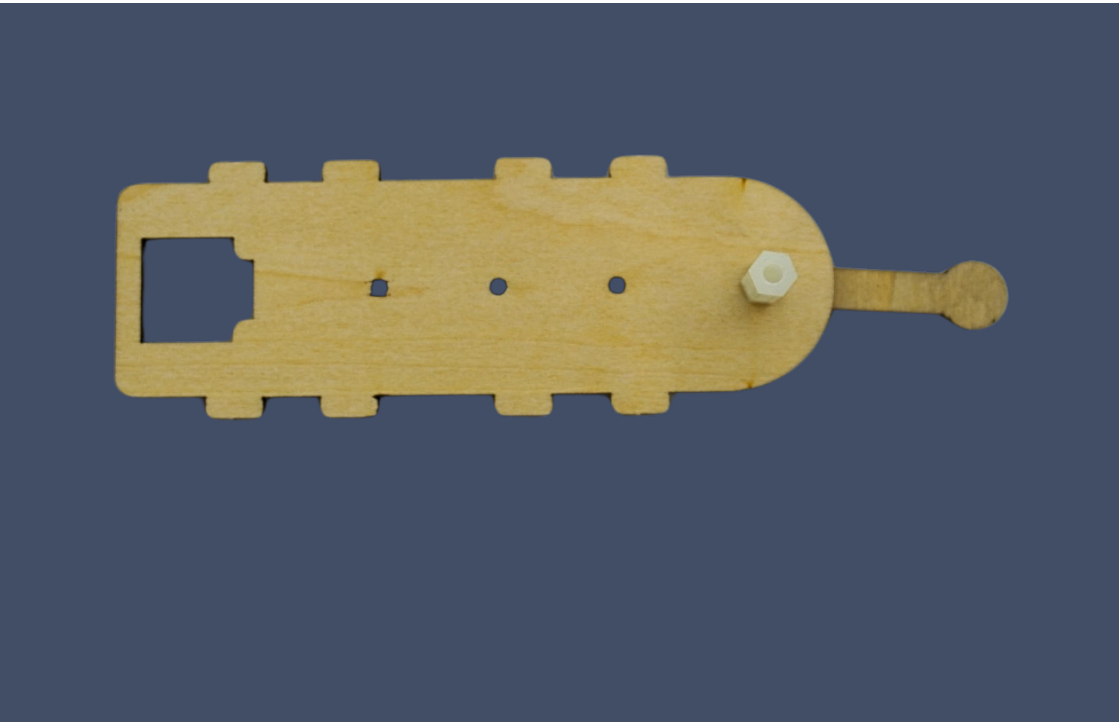
Insert two rotary shafts through the holes in board 3. Secure each one with a head shaft and an orange fixing ring.



Step 5

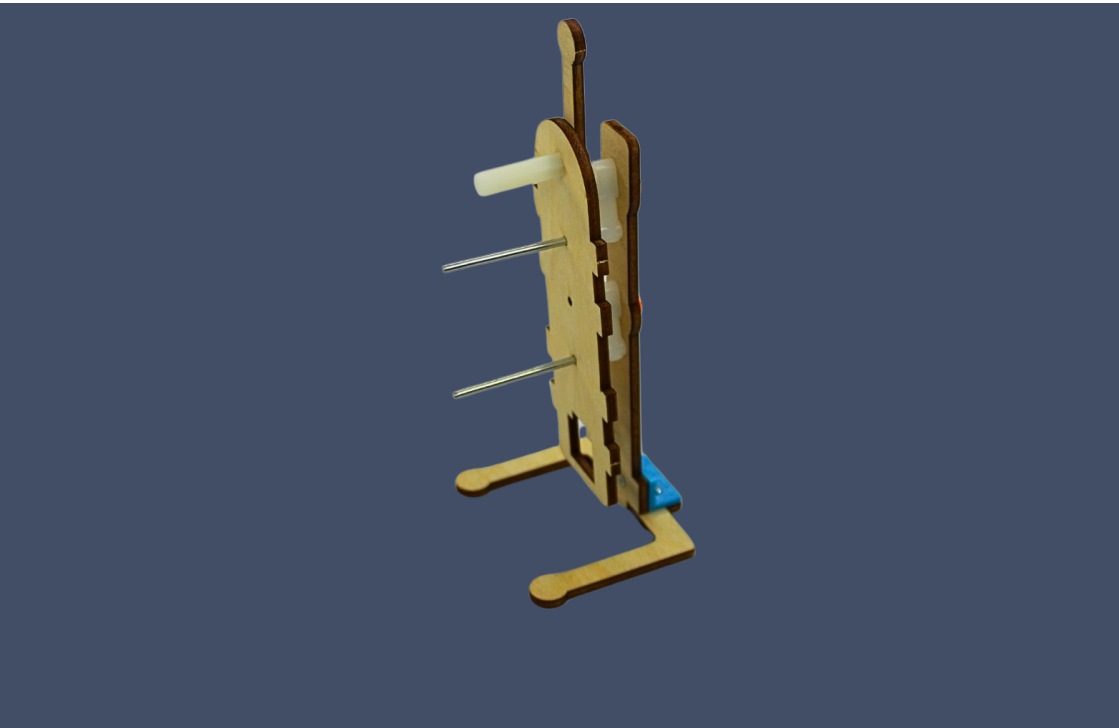


Join board 1 and board 5 using a spacer and a thick screw to hold them together securely.



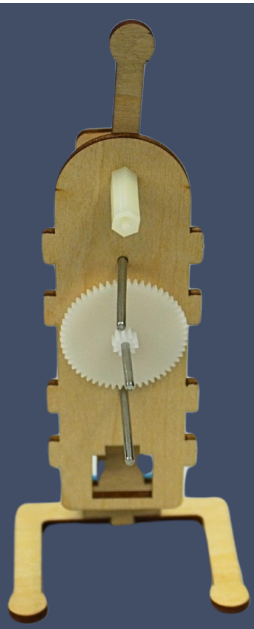
Step 6

Attach the components from step 5 to those from step 4 to complete this part of the assembly.



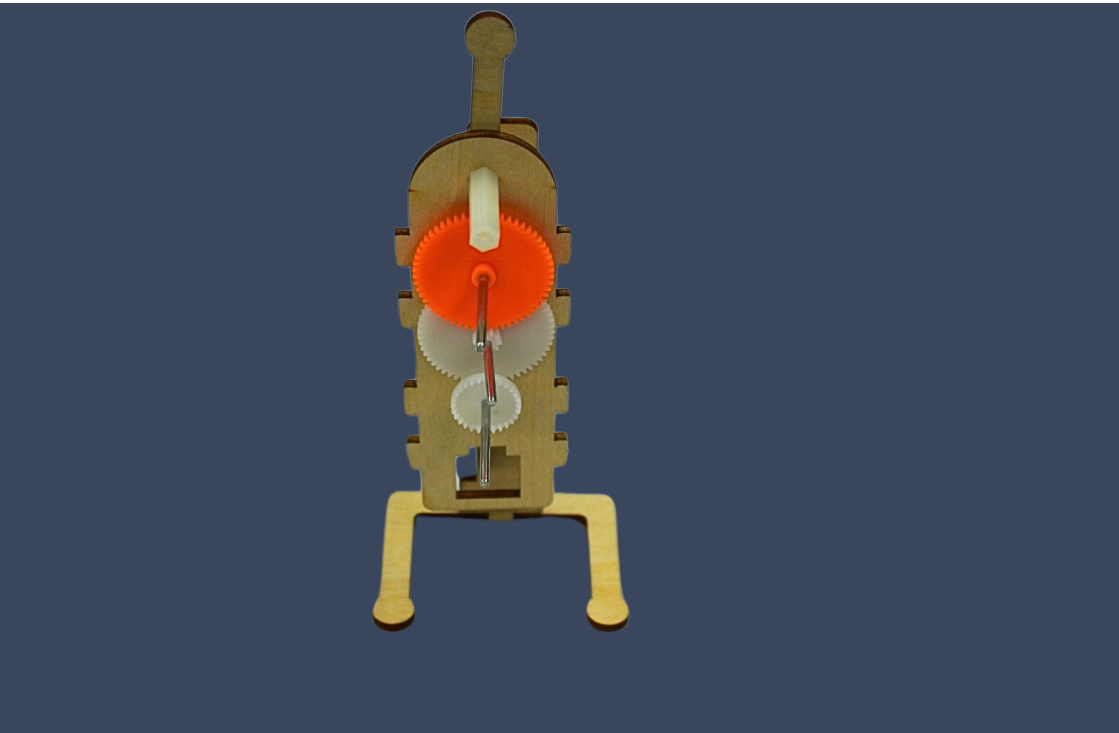
Step 7

Using the picture as a guide, insert a shaft between the two existing ones. Then, install the large gear onto the middle shaft..

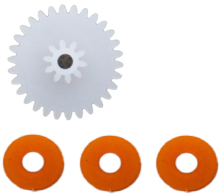


Step 8

Following the picture for reference, place the orange gear on the top shaft and the growth teeth gear on the bottom shaft.



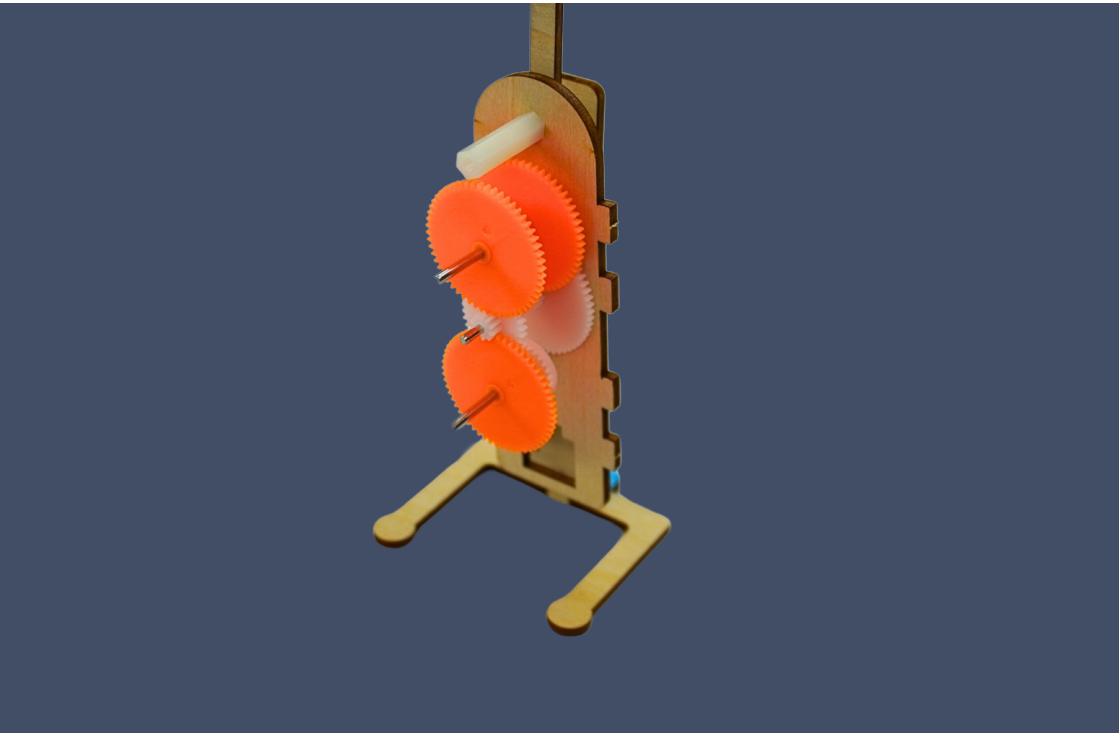
Step 9



Referencing the picture below, slide two orange fixing rings onto the middle shaft, and then add the pinion gear on top.

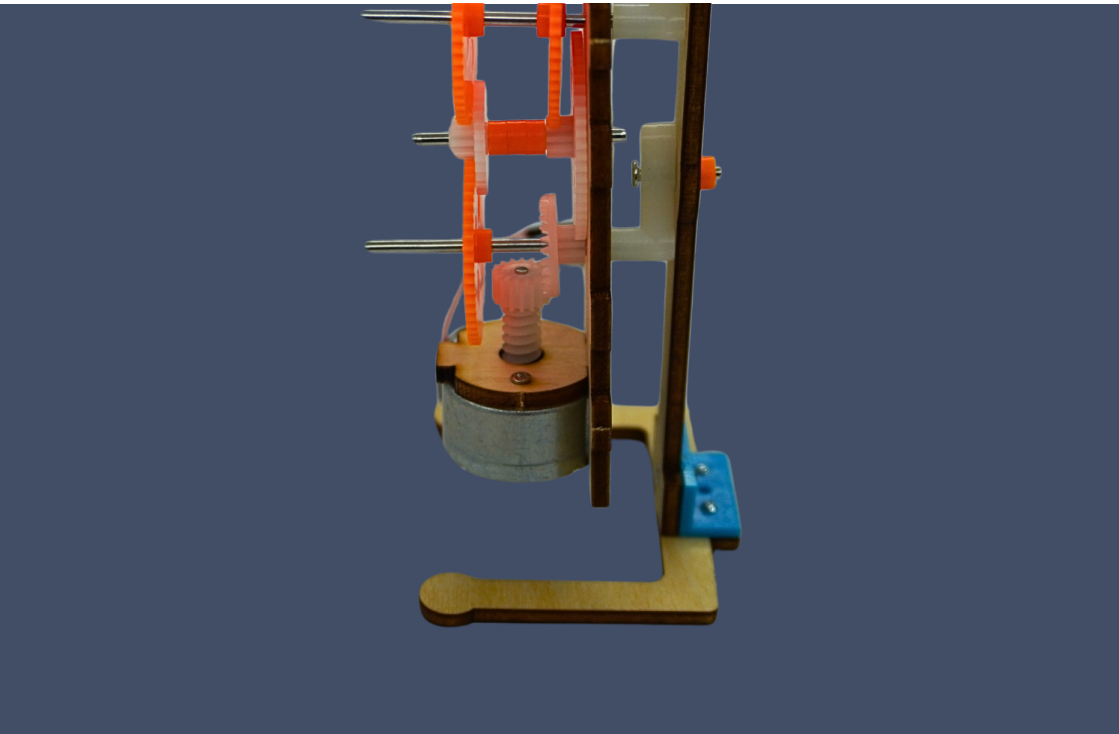
Step 10

Place two orange gears onto the top and bottom shafts.



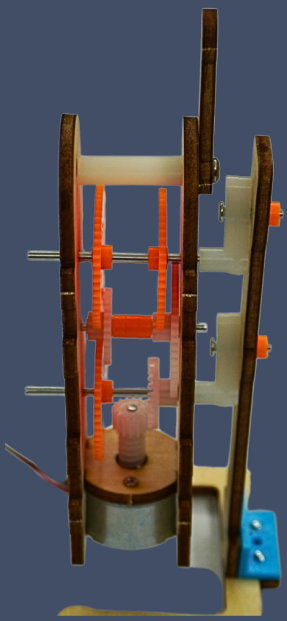
Step 11

Attach the components from step 2 to those in step 10.



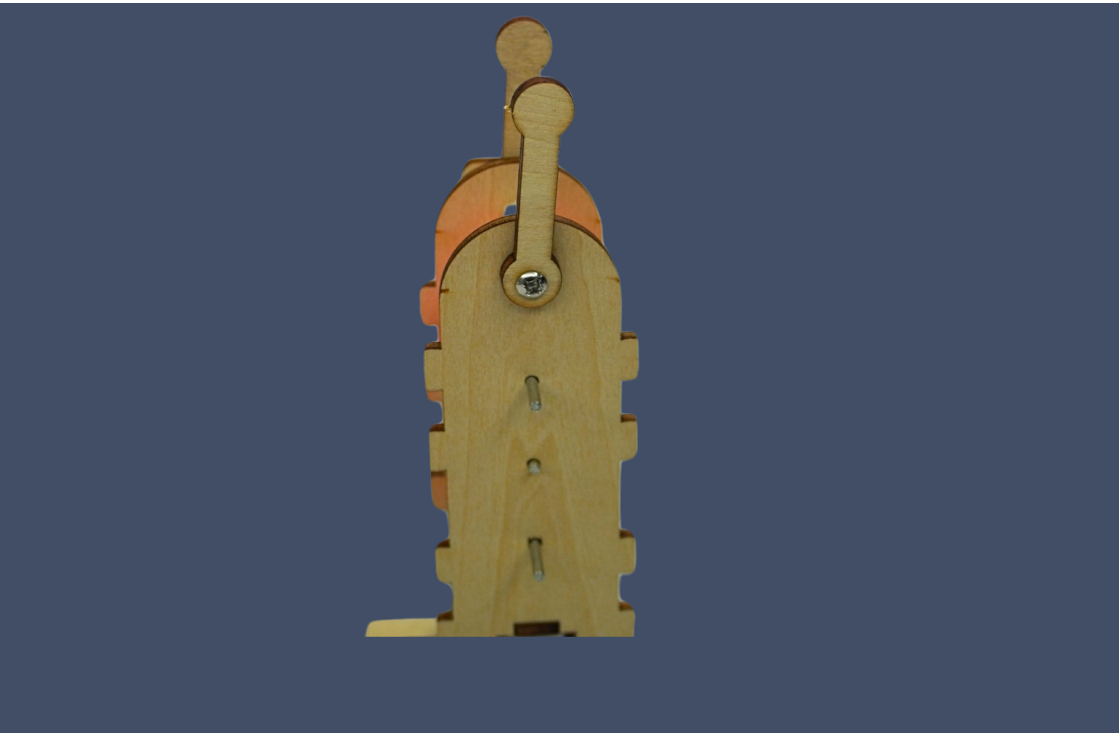
Step 12

Attach board 1 to step 11.



Step 13

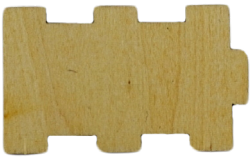
Secure board 5 to board 1 using a thick screw.



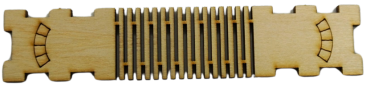
Step 14

Attach the other leg, which was installed in step 3, to step 14. Use two orange fixing rings to secure it in place.

Step 15

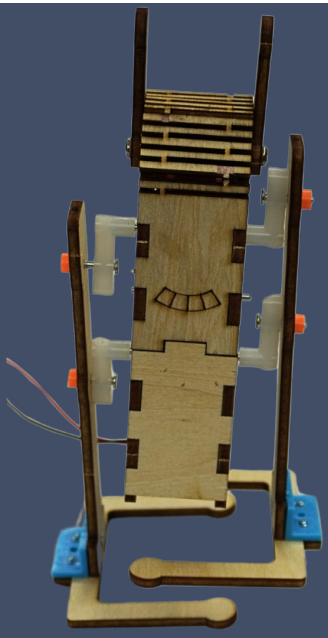


2



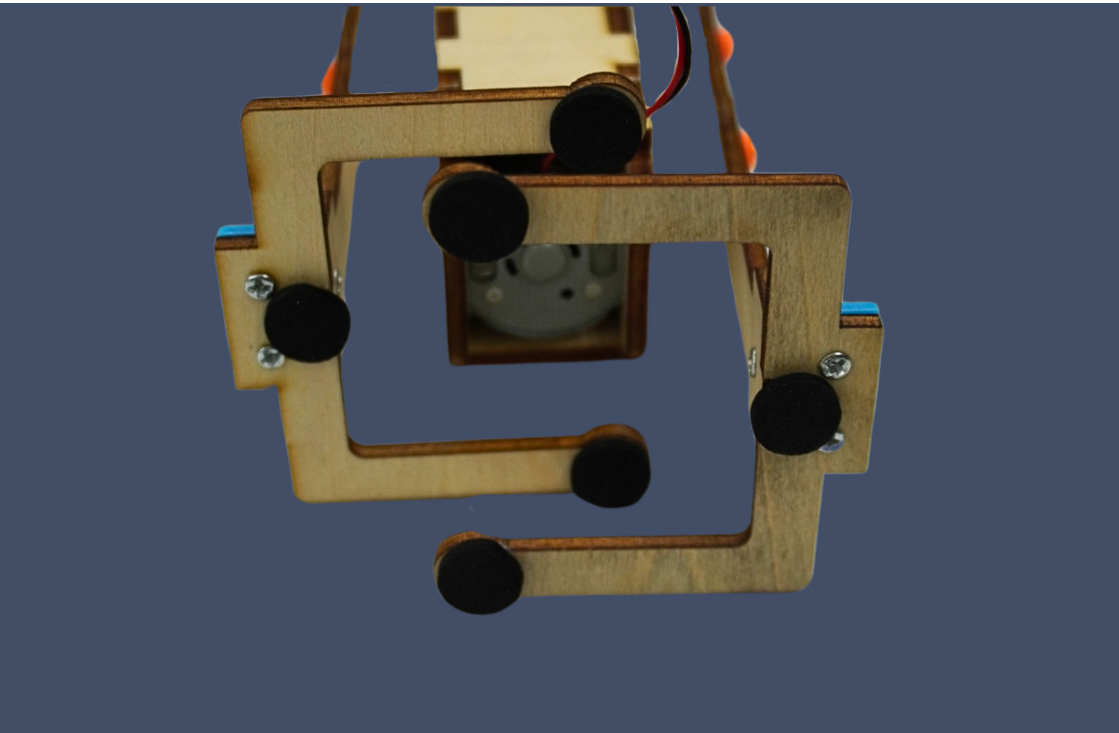
7

Attach board 2 to both sides of the robot's body. Then, install board 7 on top of the two board 2 pieces.



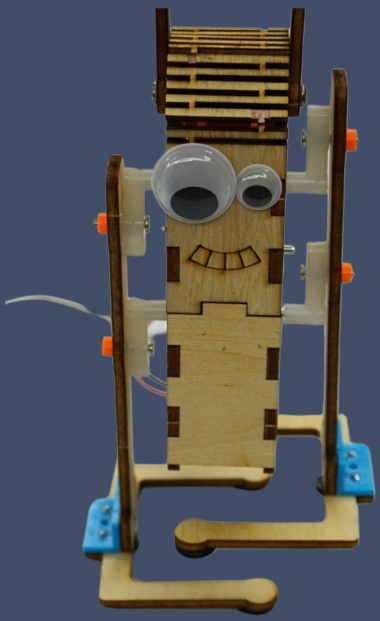
Step 16

Place the rubber mats underneath the robot's legs.



Step 17

Attach one small eye and one big eye to each side of the robot.



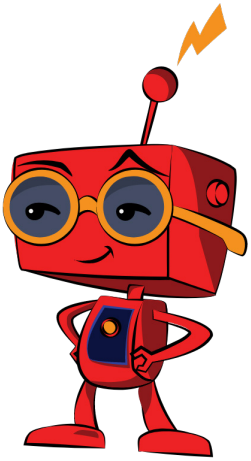
Now you have
your very own Walking robot!

Finally, it's alive! Now we will become the best of friends!

If it doesn't want to work!?

- Check if the battery is low on power. You might need to change it.
- Check if the fixing ring is too tight. It is recommended to leave a gap of 1mm.

S Science
T Technology
E Engineering
A Arts
M Mathematics



Here's how they help:

1. *Hands-On Learning:*
   Kids do experiments and projects, making learning fun.

2. *Problem-solving:*
   This makes your child think outside the box to solve a problem.

3. *Creative Thinking:*
   Arts and design are part of ***STEAM***, so kids get to be creative, and think of new ideas to build and create.

4. *Confidence:*
   Completing projects makes kids feel like they accomplished something, building confidence in creating more and unique things.

5. *Preparation:*
   STEAM skills are important for the future, so kids can use the skills they learn, to create a better future.

STEAM kits - help kids learn many skills they'll need in a fun and practical way.