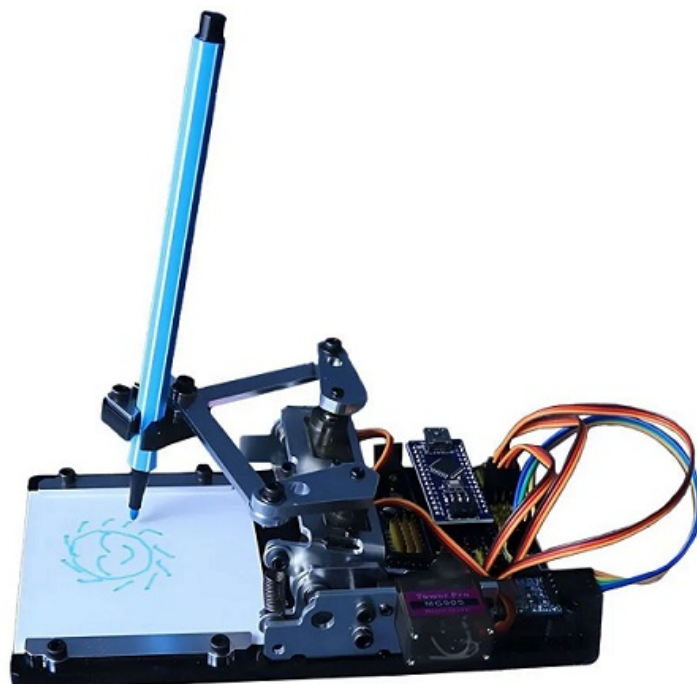


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Elektor Arduino Controlled Drawing Robot



Product Specifications

- Arduino-controlled Drawing Robot
- Components:
 - Arduino Nano – 5
 - Nano Shield – 1
 - Bluetooth Module – 1
 - Servos – 3
 - Cables – 4
- Screws:
 - M2X8 – 6
 - M2.5×6 – 2
 - M3x6 – 2
 - M3x8 – 15
 - M3x10 – 3
 - M3x12 – 6
 - M3x16 – 2
- Nuts:
 - M2 – 6
 - M3 – 29
- Gaskets:
 - M3 – 2
- Spacers:
 - Black Nylon M3x2 – 5
 - M3x9 – 2
- Additional Components:
 - Springs 5×0.4×6 – 1
 - Bearings M3x8 – 2

Product Usage Instructions

Step 1: Install Nano Expansion Shield

First, install the Nano expansion shield with 8x M3X8 screws and 4x M3X2 spacers in the shown location.

Step 2: Install Bluetooth Module

Then install the Bluetooth module with 4x M3X12 screws with nuts.

Components

Screws

- M2X8 —6
- M2.5x6 —2
- M3x6 —2
- M3x8—15
- M3x10—3
- M3x12—6
- M3x16—2

Nuts

- M2 —6
- M3 —29

Gaskets

- M3 —2

Spacers black Nylon

- M3x2 —5
- M3x9 —2

Springs

- 5x0.4x6 —1

Bearings

- M3x8 —2

- Arduino Nano —5
- Nano Shield —1
- Bluetooth Module —1
- Servos —3
- Cables —4

INSTALLATION INSTRUCTION

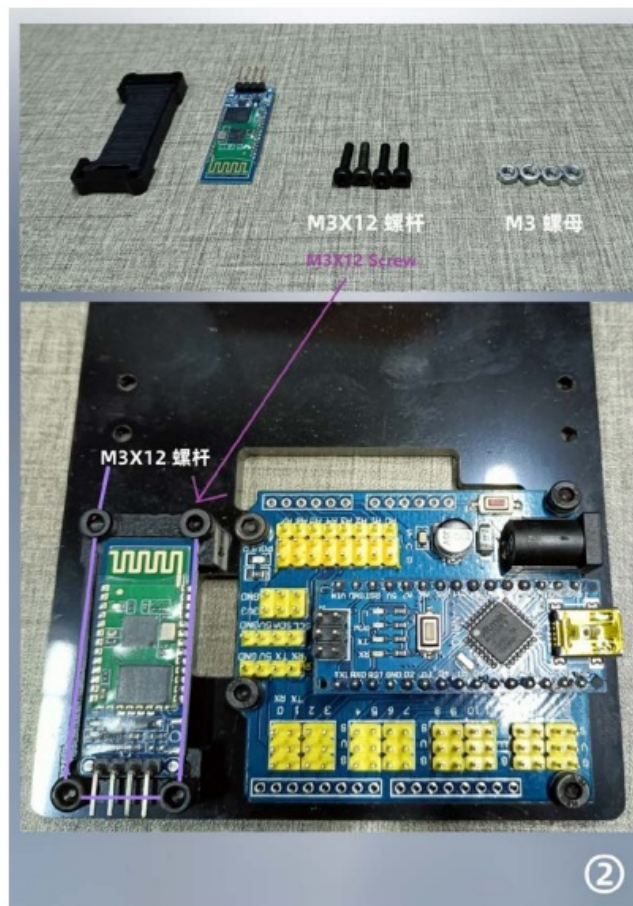
STEP 1

- First, install the Nano expansion shield with 8x M3X8 screws and 4x M3X2 spacers in the shown location



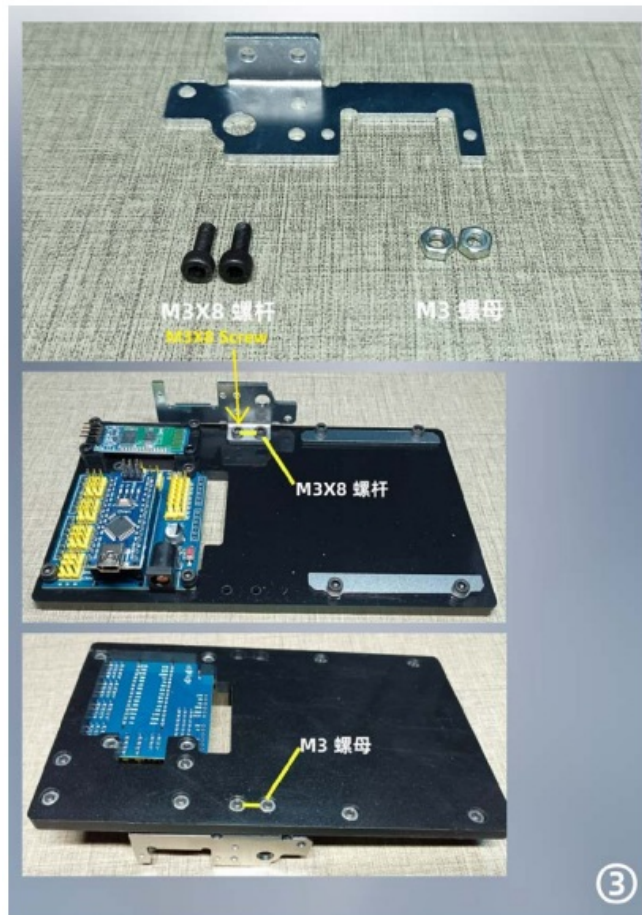
STEP 2

- Then install the Bluetooth module with 4x M3X12 screws with nuts



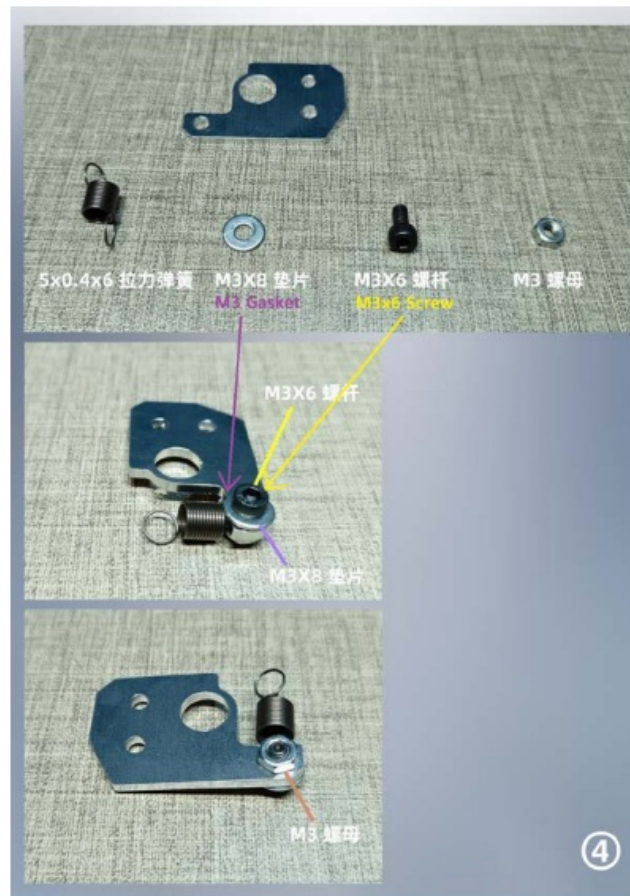
STEP 3

- Then install the bracket with 2x M3X8 screws with nuts



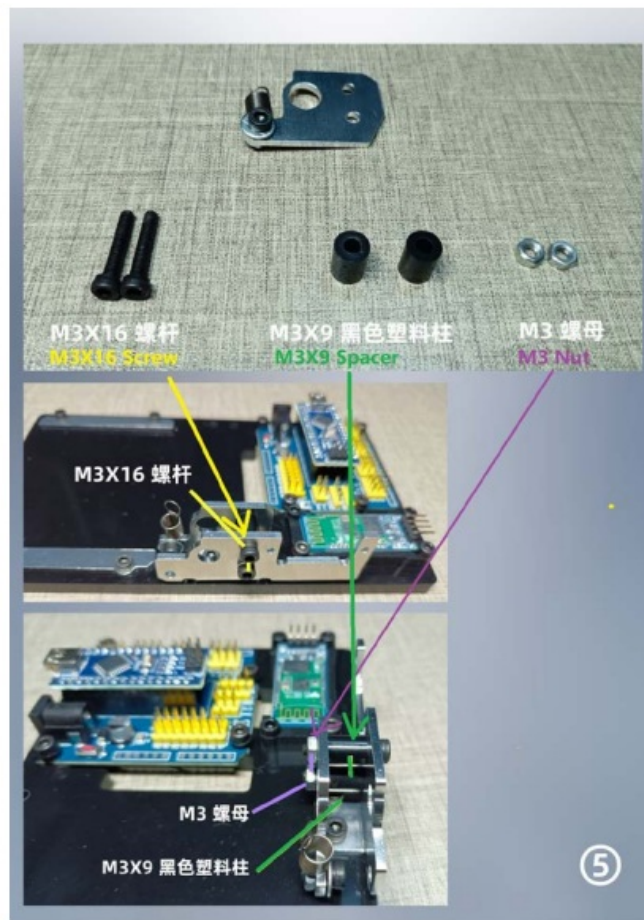
STEP 4

- Assembly this arm with the return spring



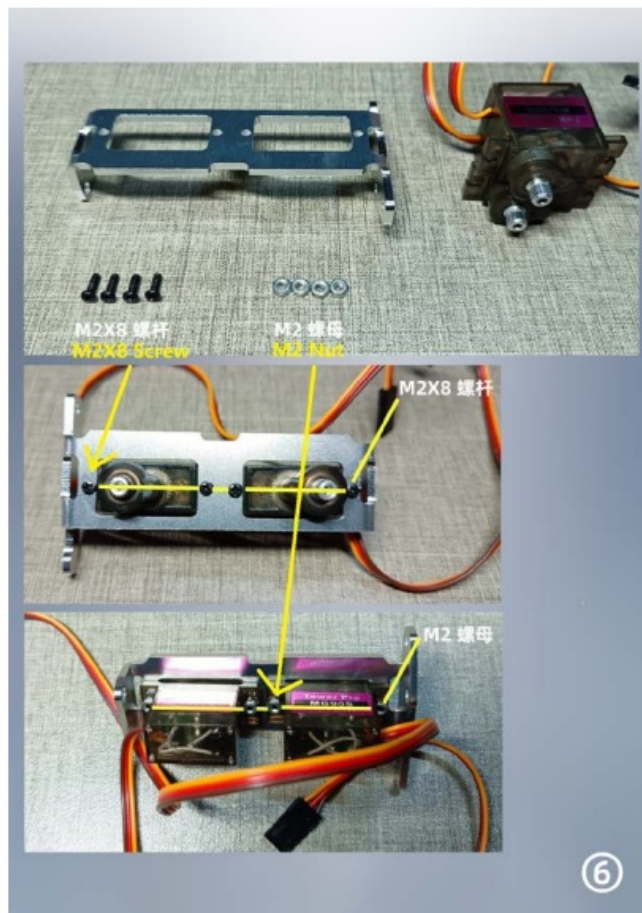
STEP 5

- Put them all together to the bracket



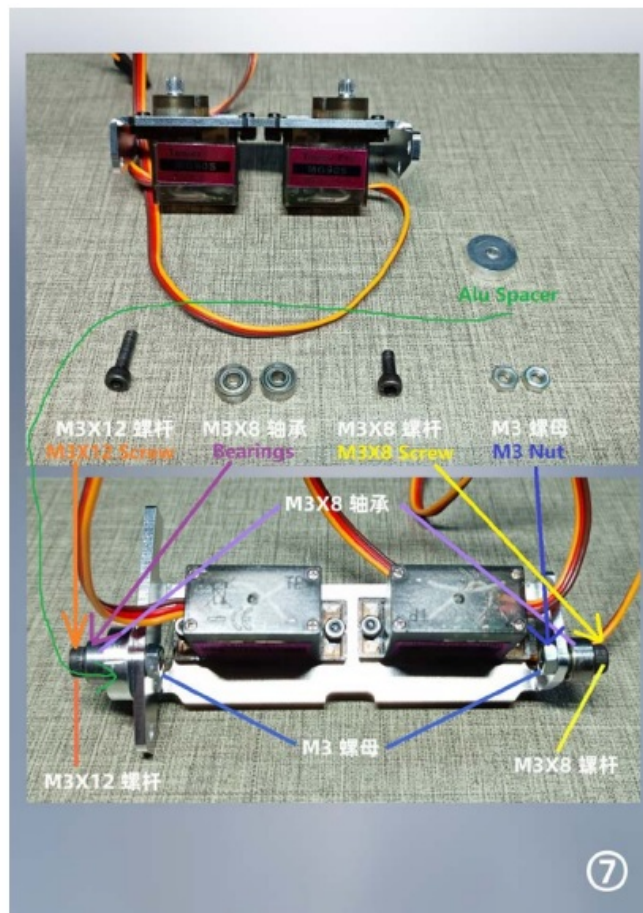
STEP 6

- Now assemble 2 servos with M2X8 screws and nuts



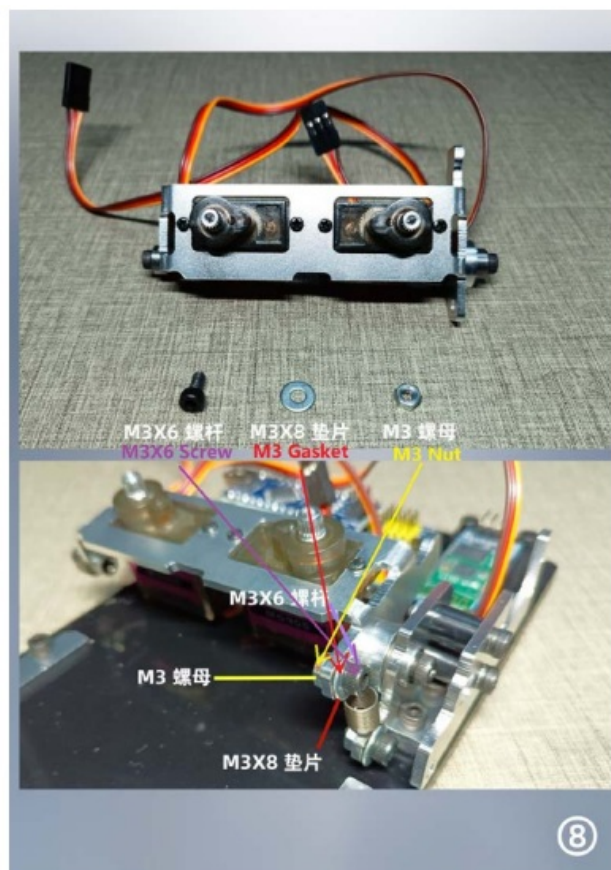
STEP 7

- Add bearings to the construction



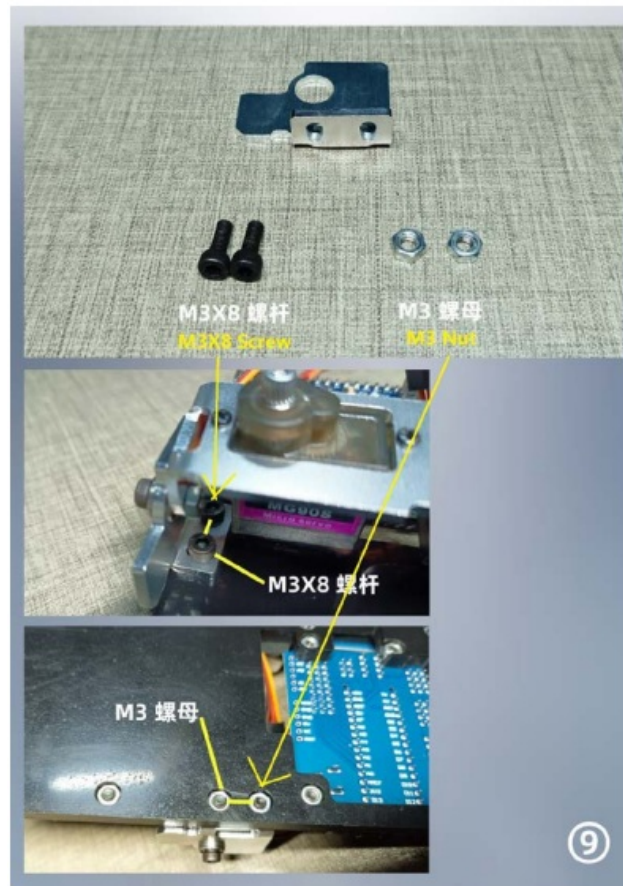
STEP 8

- Connect the frame with servos to the return spring



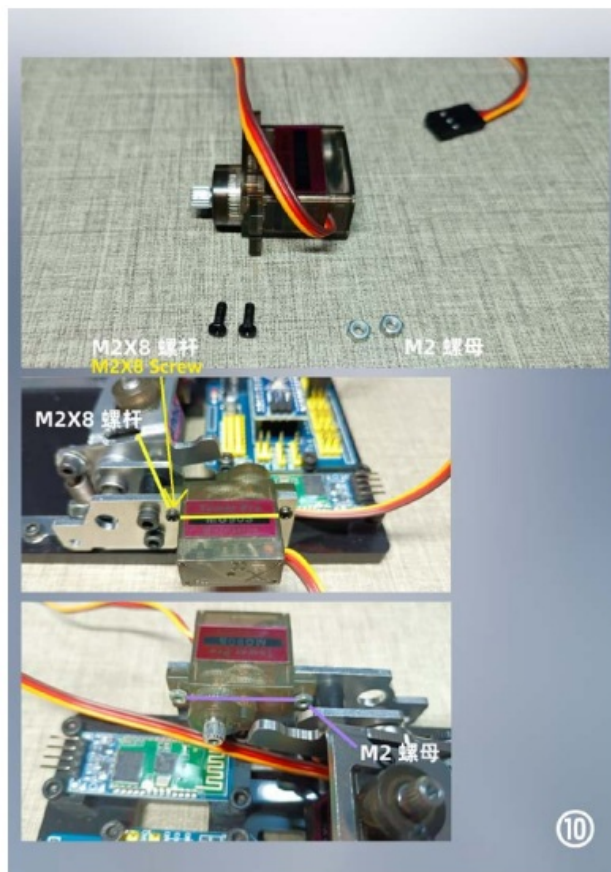
STEP 9

- Install another base bracket, and connect it to the servo frame



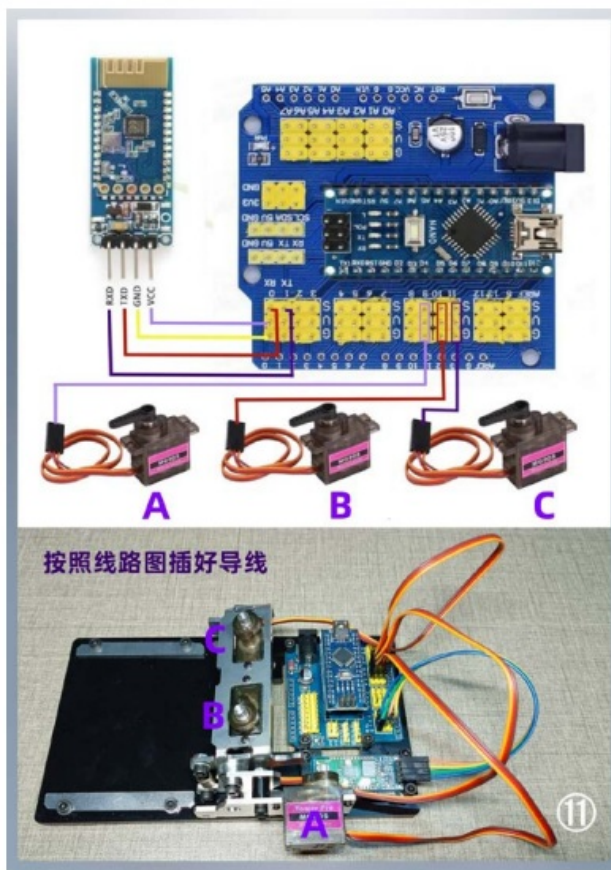
STEP 10

- Install the last servo



STEP 11

- Connect 3 servos to the Nano expansion shield as picture shown



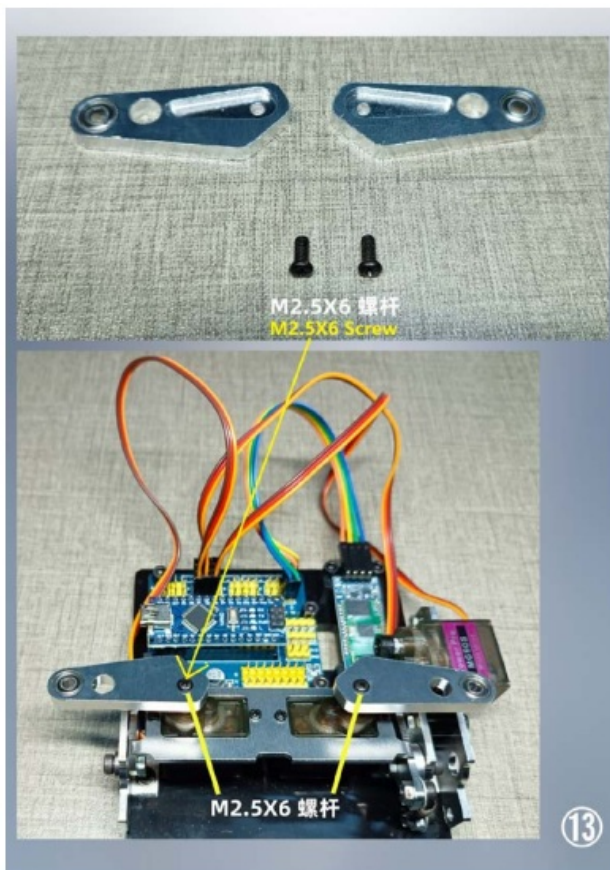
STEP 12

- Power on, and wait until servos stop turning, then turn off the power
- Install servo arms horizontal as pictures shown



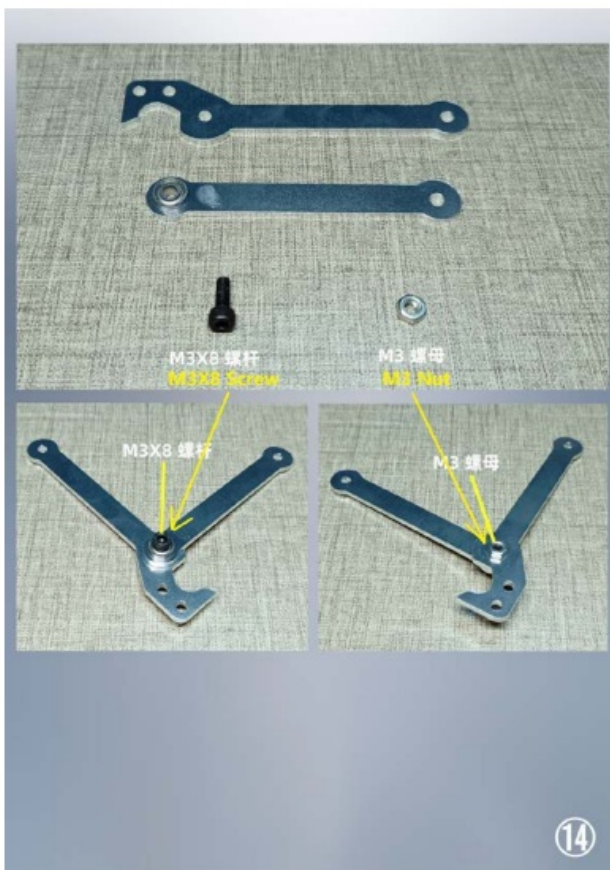
STEP 13

- Install 2 robot arms with M2.5X6 screws



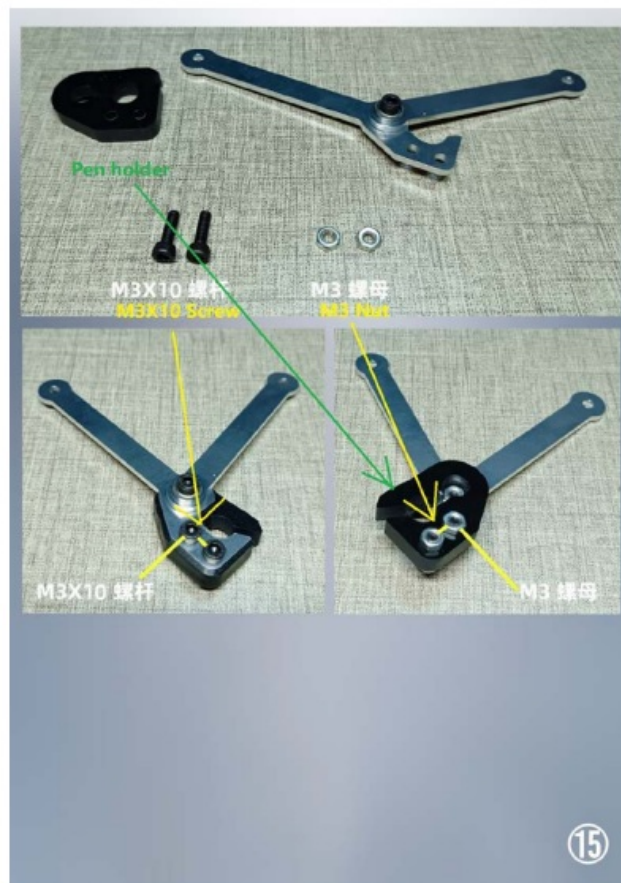
STEP 14

- And M3 screws



STEP 15

- Install the pen holder



STEP 16

- Put it all together, and finish the assembly



Frequently Asked Questions

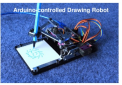
Q: How do I power on the drawing robot?

A: Power on the robot and wait until servos stop turning, then turn off the power.

Q: How do I connect the servos to the Nano expansion shield?

A: Connect 3 servos to the Nano expansion shield as shown in the picture provided in the manual.

Documents / Resources

	<p>Elektor Arduino Controlled Drawing Robot [pdf] Installation Guide</p> <p>Arduino Controlled Drawing Robot, Controlled Drawing Robot, Drawing Robot, Robot</p>
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References

- [User Manual](#)

◆ Arduino Controlled Drawing Robot, Controlled Drawing Robot, Drawing Robot, Elektor,

■ Elektor Robot

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