

Fling art

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Problem

FlingArt solves the challenge of unpredictable random art, and the problems that painters face during the drawing process, such as cleanliness and effort.



Solution Fling Art

Features

01

Controlled by
mobile
application

02

Control and
random mode

03

Quantity
Specification

Features Cont...

04

Throwing
methods

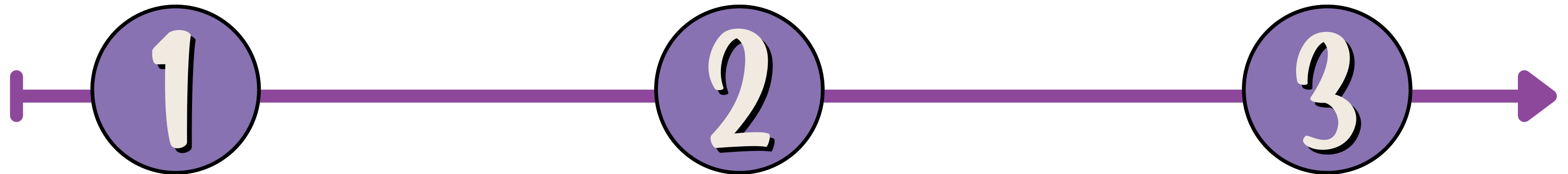
05

Angle
adjustment

06

Notify the user if
the color chosen
is run out of stock

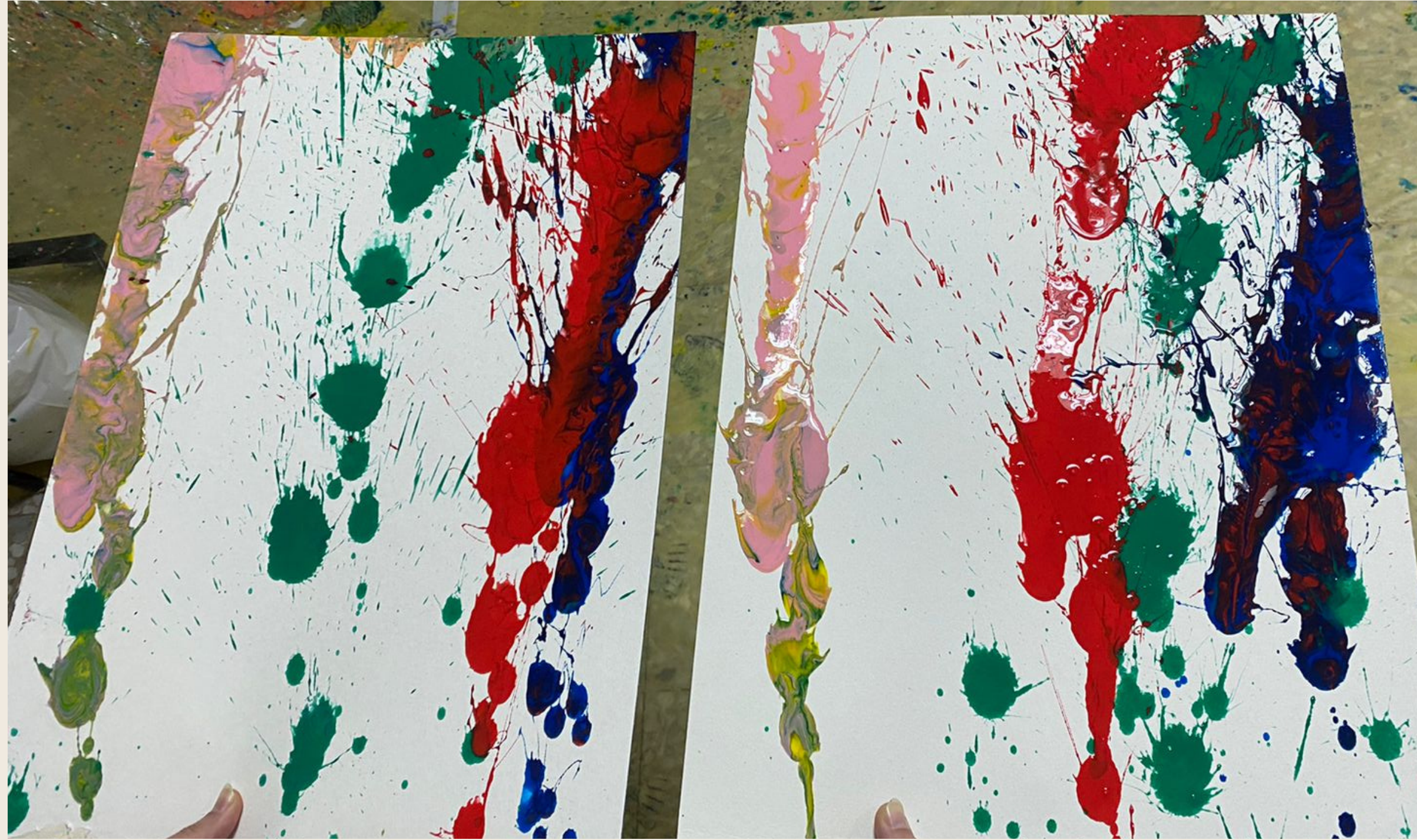
Motivations



easy to use

can use it from afar,
staying away from colors
and clean.

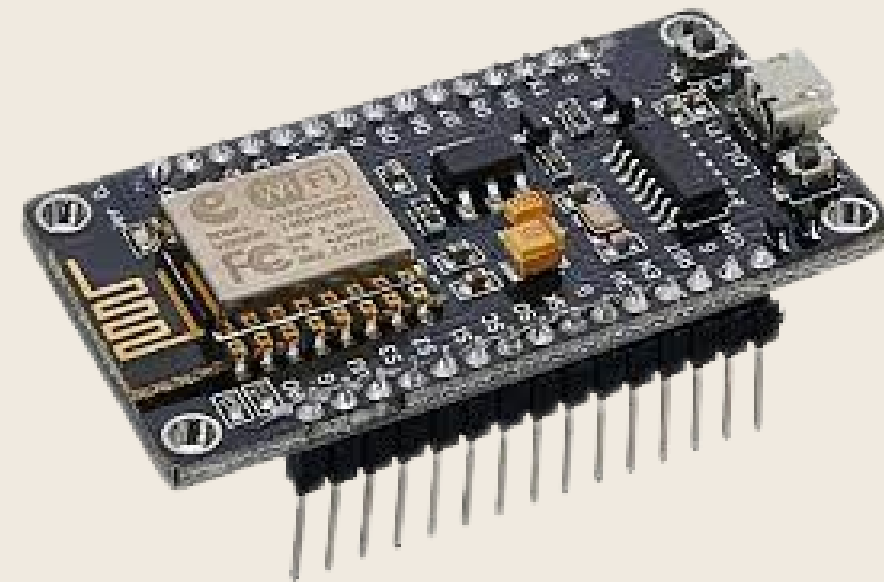
It can be considered a
production line for
artistic paintings



Hardware modules



Arduino mega



ESP

Hardware modules



Pump



Valve



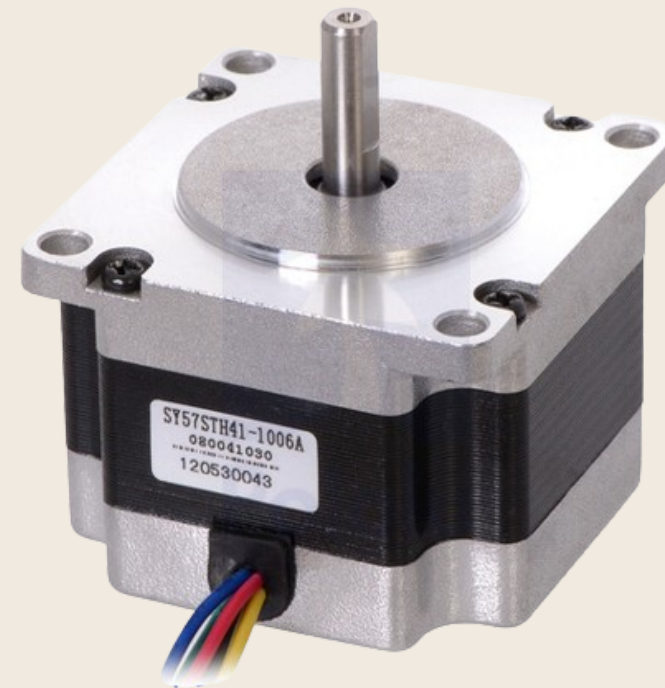
relay



Hardware modules



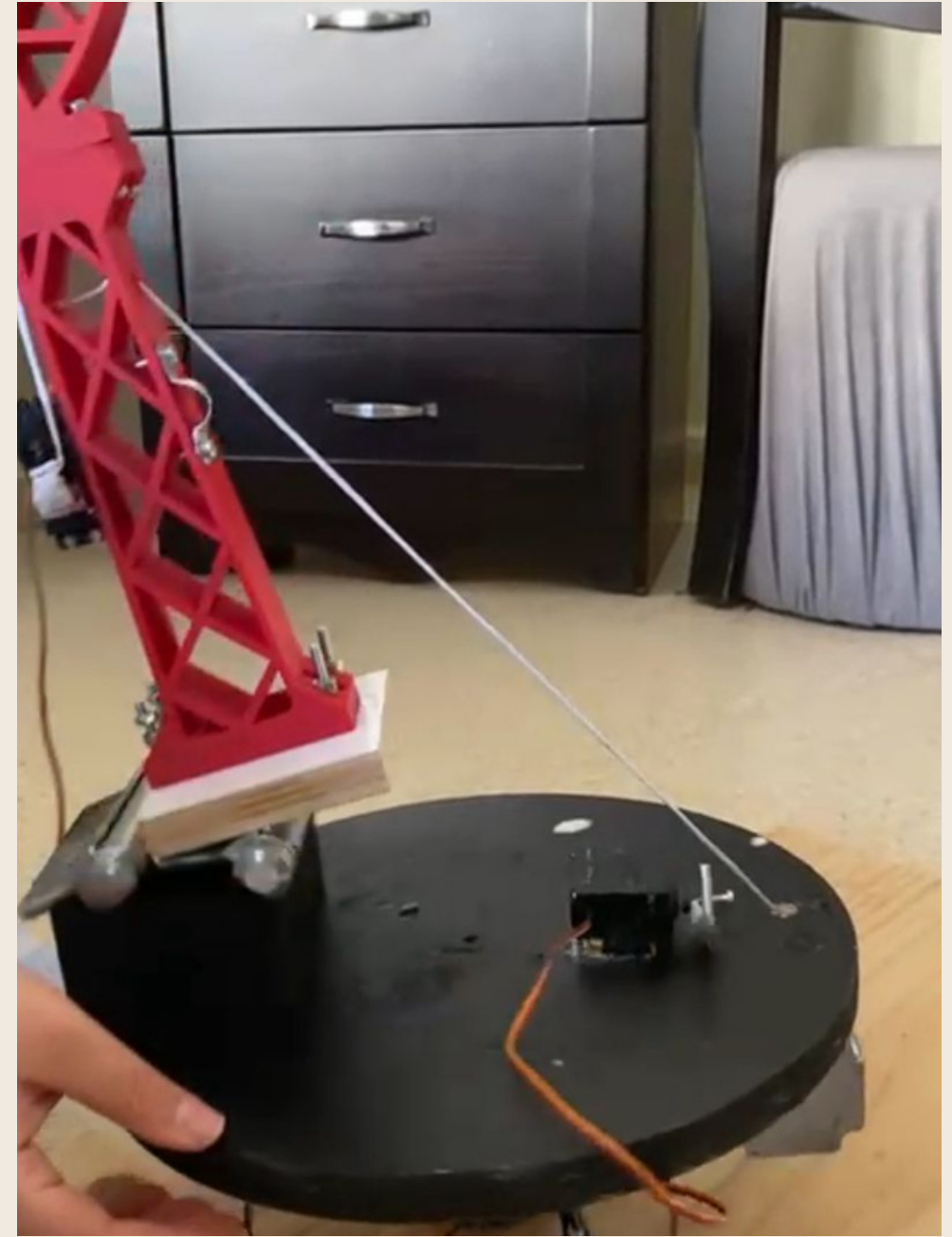
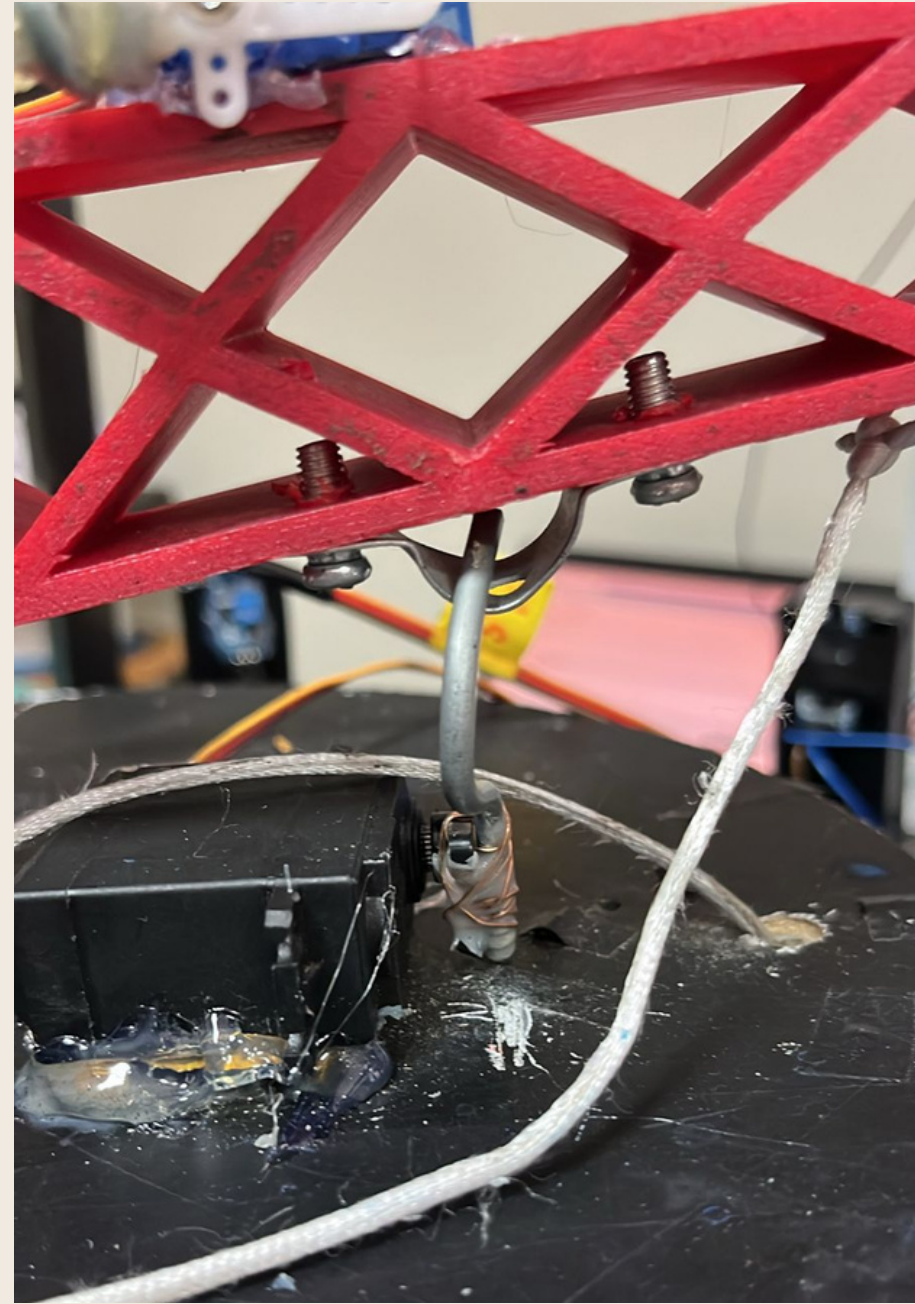
Stepper motor



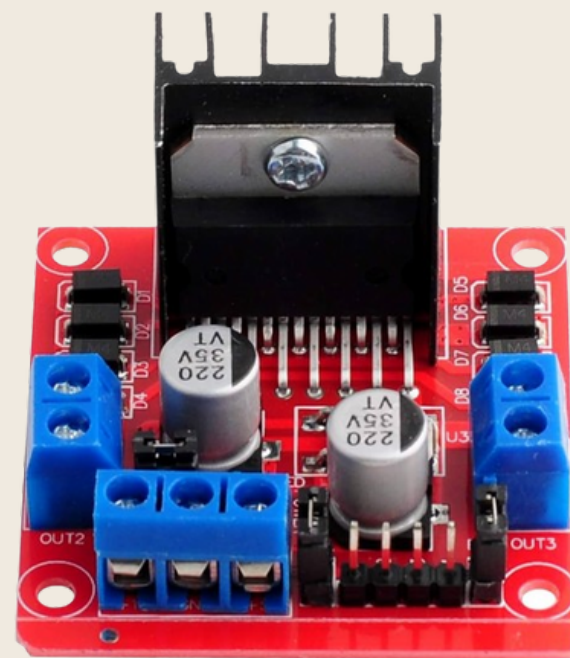
Stepper motor



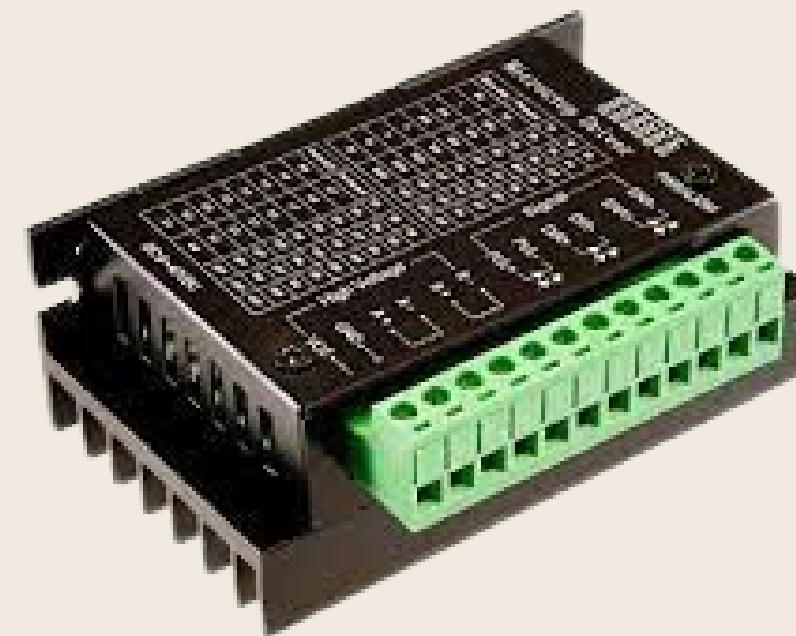
Servo motor



Hardware modules

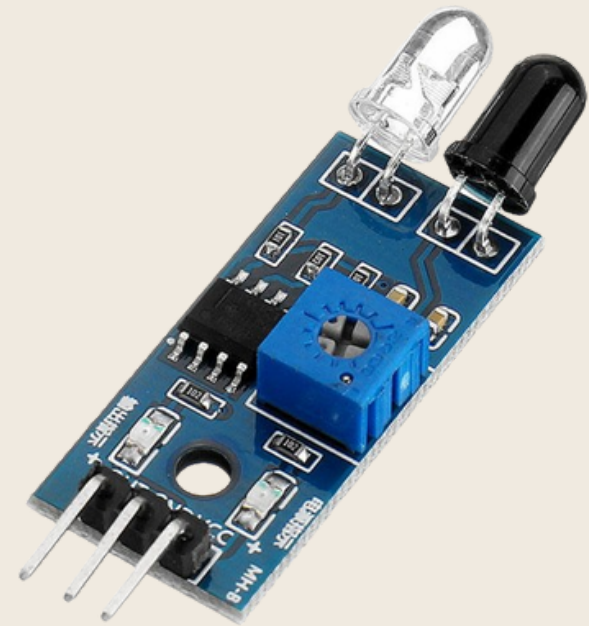


**H-bridge
L298N**



**stepper motor driver
YS-DIV268N driver**

Hardware modules



IR sensor



Ultrasonic sensor

Mobile Application



- Select Drawing Mode
- Select colors.
- Choose quantity.
- Determine the angle.
- Change the shape of the spatula.

Random mode

Sequence mode

Change Spatula

Select mode

Red Yellow

Green Orange

Blue Pink

Angle : Middle

Size :

Start

Constrains

- 1- Budget Constrains
- 2- Paint can cause problems by getting into the machine parts
- 3- Power Consumption
- 4- Weather and Environmental Conditions

future work

- 1- It is possible to add a new feature, such as a tap, and use it to color large objects
- 2- We can make the drawing board rotate in more than one direction



THANK YOU