

FLOWER FOR

SINGLE
CODERS



BOW
SHANGHAITECH

BOW STARK

Intro to Bow's project

Circuit: Using Arduino board

2 photosensitive resistance*

1 servo motor

The cube: Using laser cut

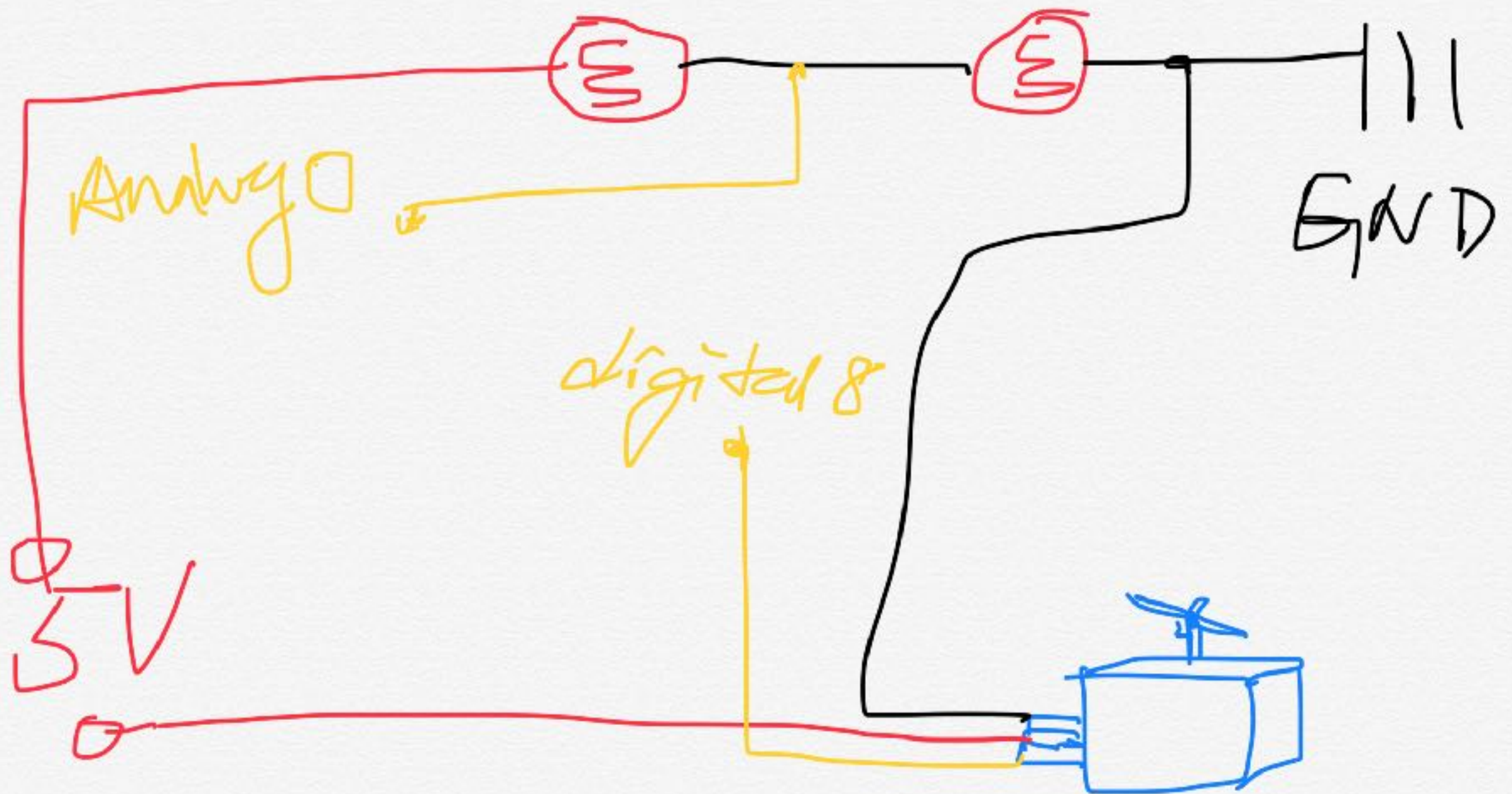
Minimal art

*10*10*10 Cube*

The rose: using the 3D printer

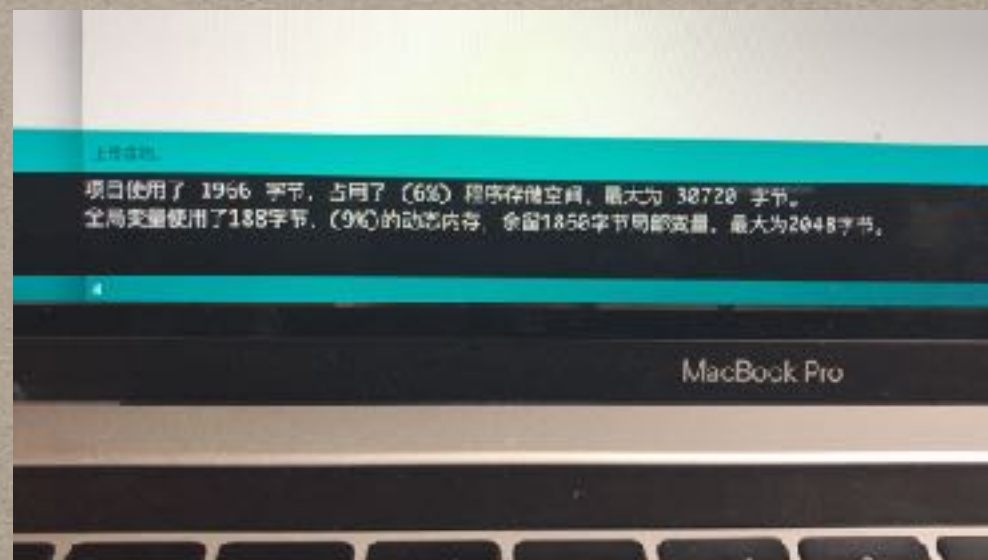
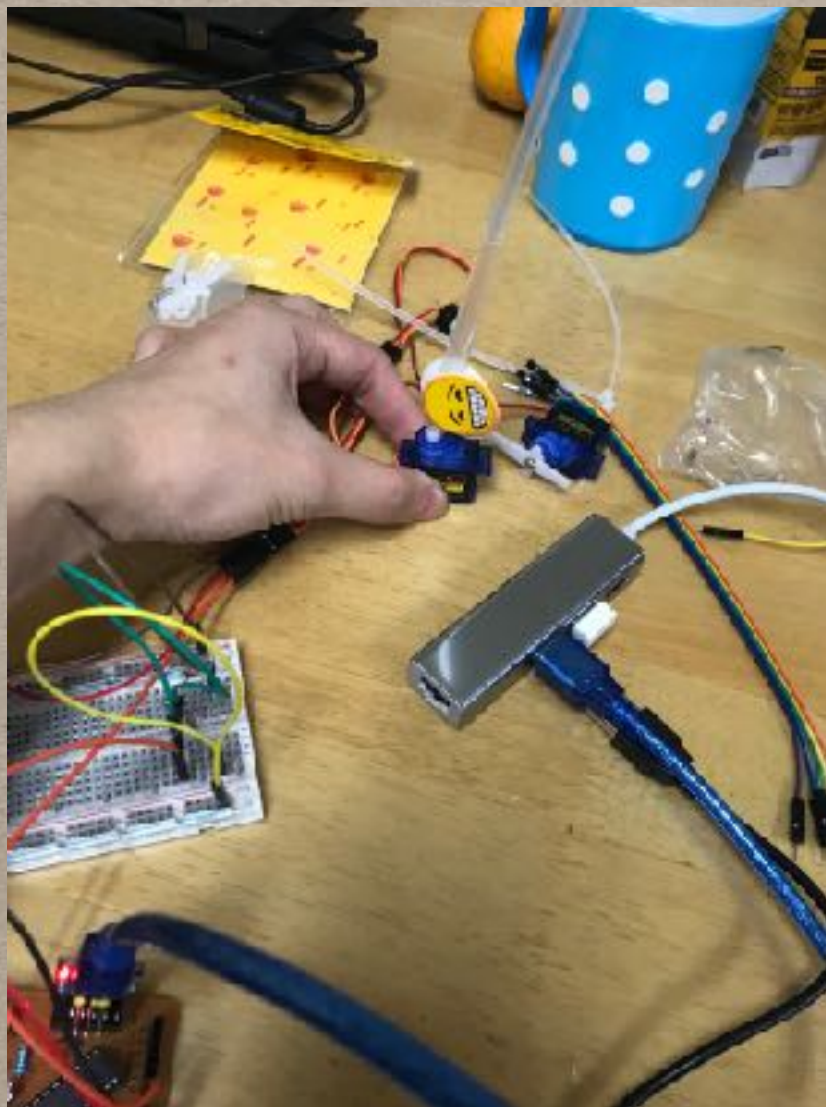
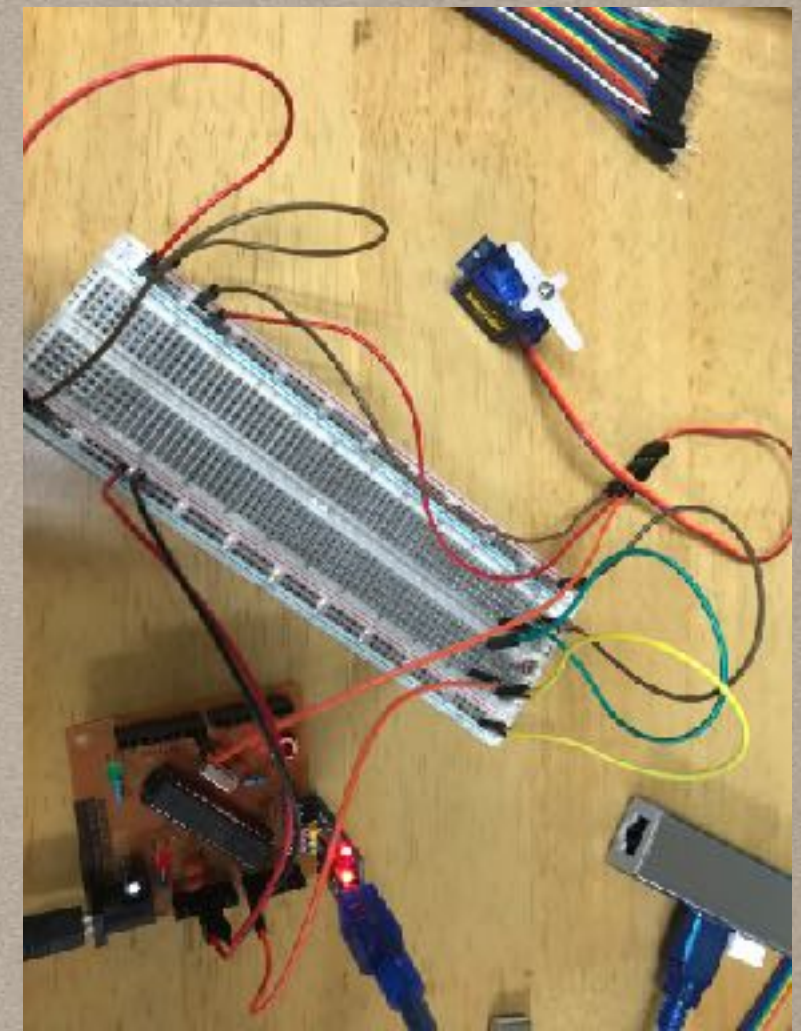
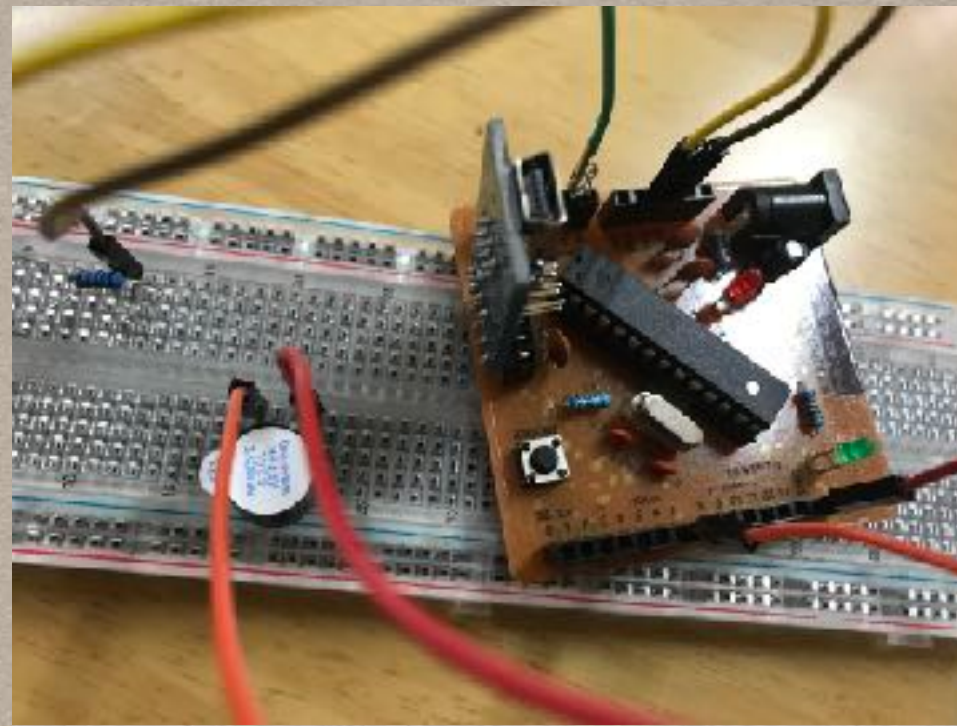
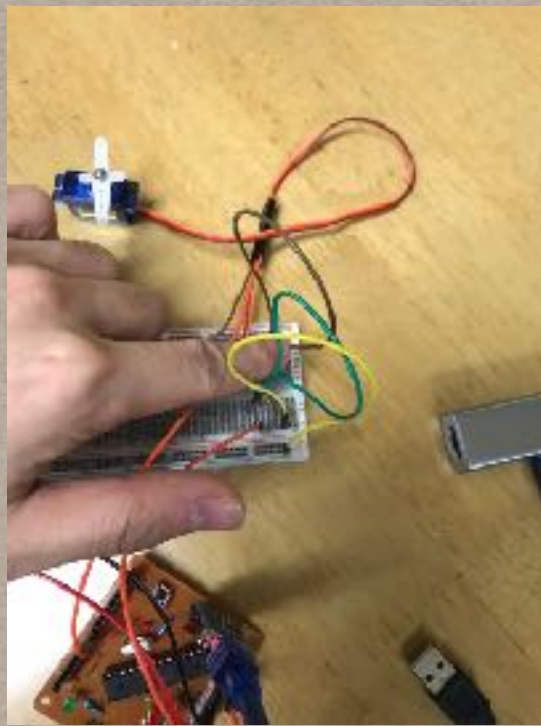
White rose





circuit diagram

Here comes the principle of my project



```
#include <Servo.h>

int sensorPin = A0;
int servoPin = 8;

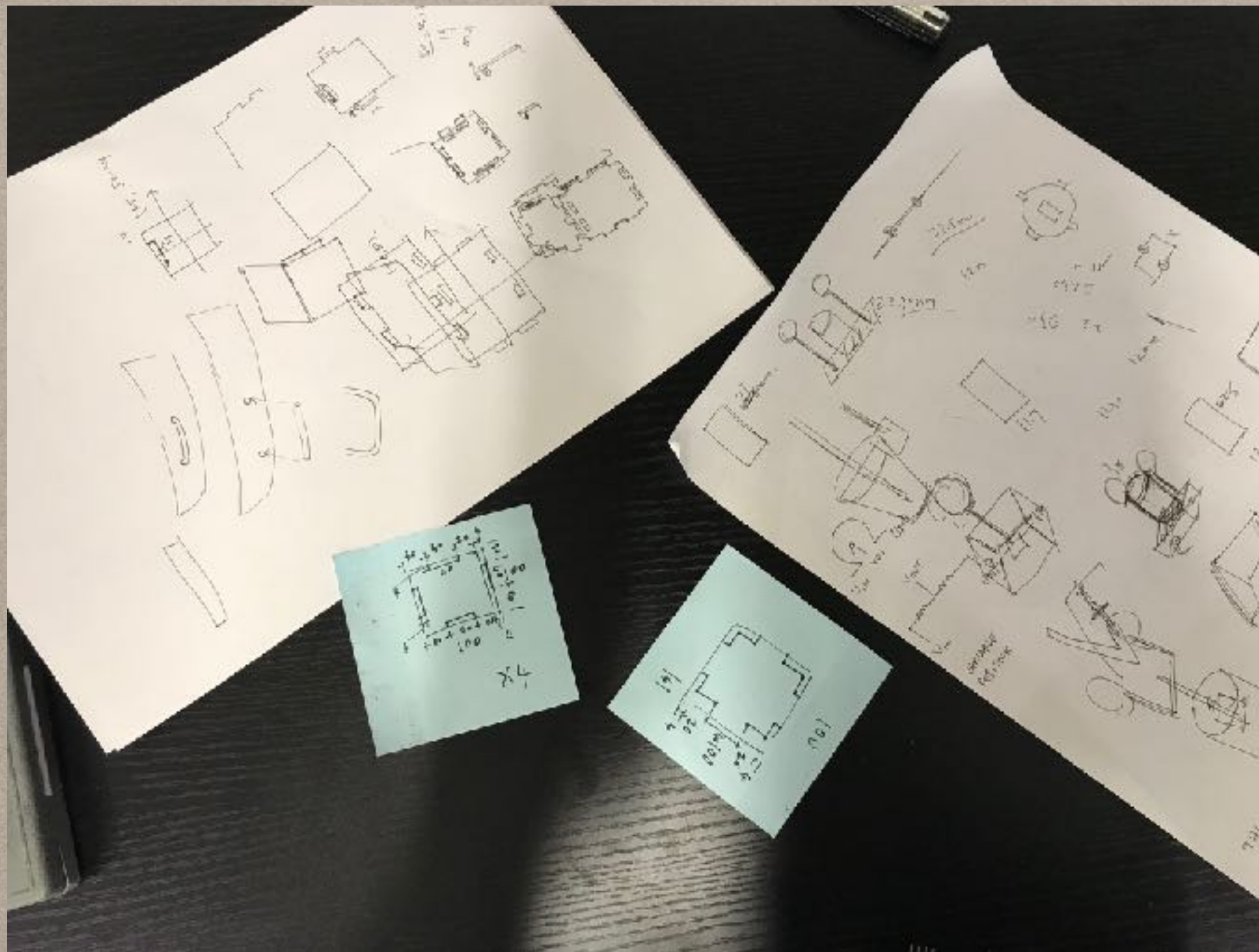
int sensorValue = 0;
int servoGrad = 90;
int tolerance = 40;

Servo myservo;

void setup() {
  Serial.begin(9600);
  pinMode( sensorPin, INPUT);
  myservo.attach( servoPin );
  myservo.write( servoGrad );
}

void loop() {
  sensorValue = analogRead(sensorPin);
  Serial.println(sensorValue);
  if ( sensorValue < (512-tolerance) )
  {
    if (servoGrad < 180) servoGrad++;
  }

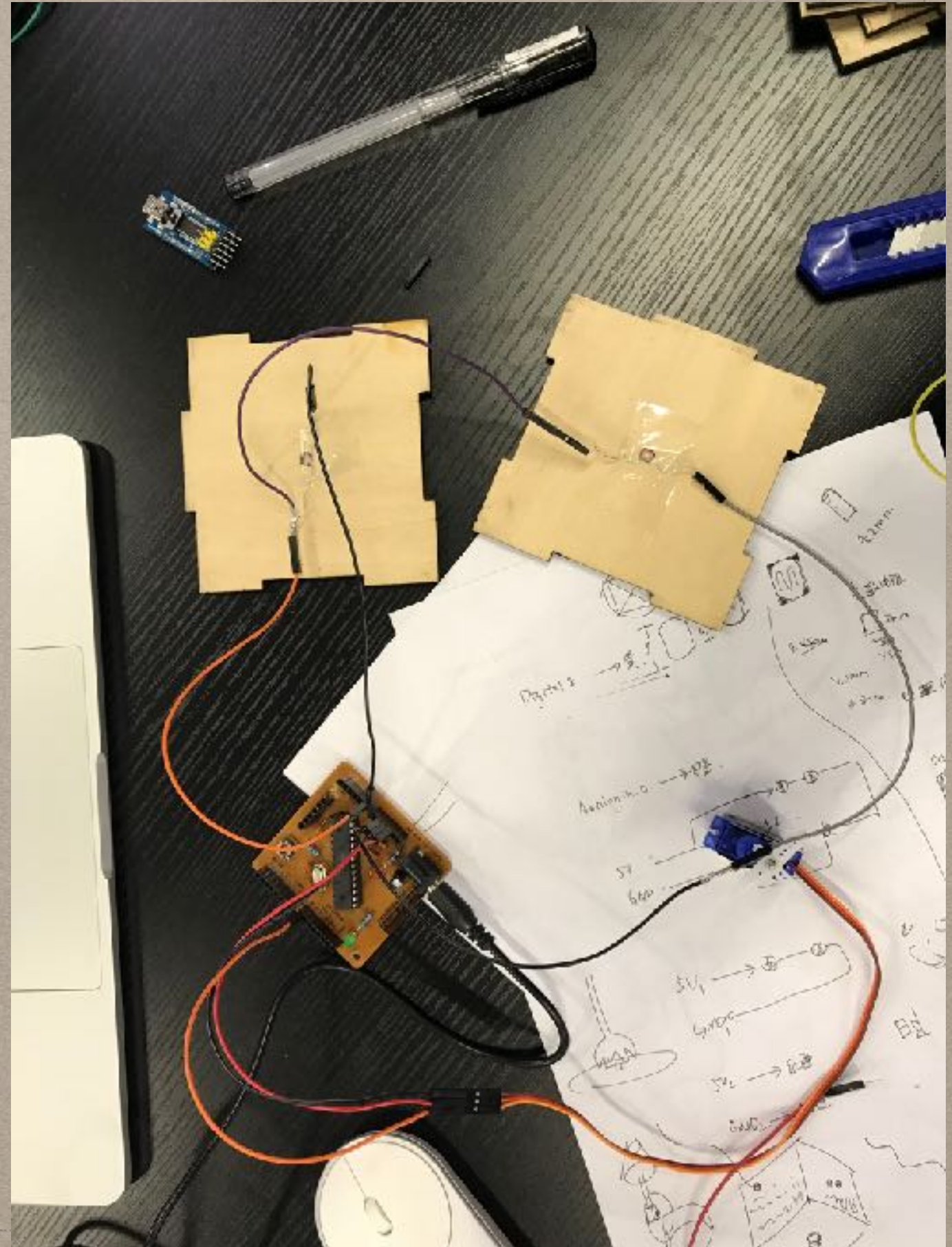
  if ( sensorValue > (512+tolerance) )
  {
    if (servoGrad > 0) servoGrad--;
  }
}
```

*the
circuit
places in
a cube
of
 $10*10*10$*

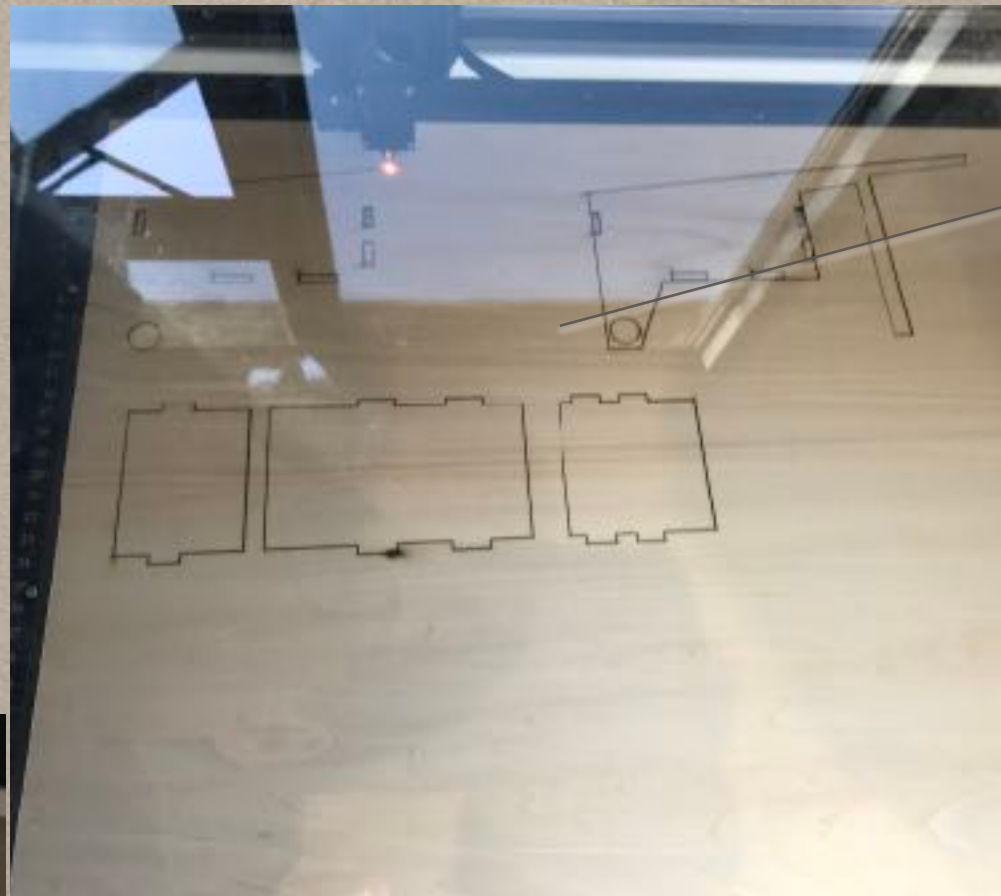
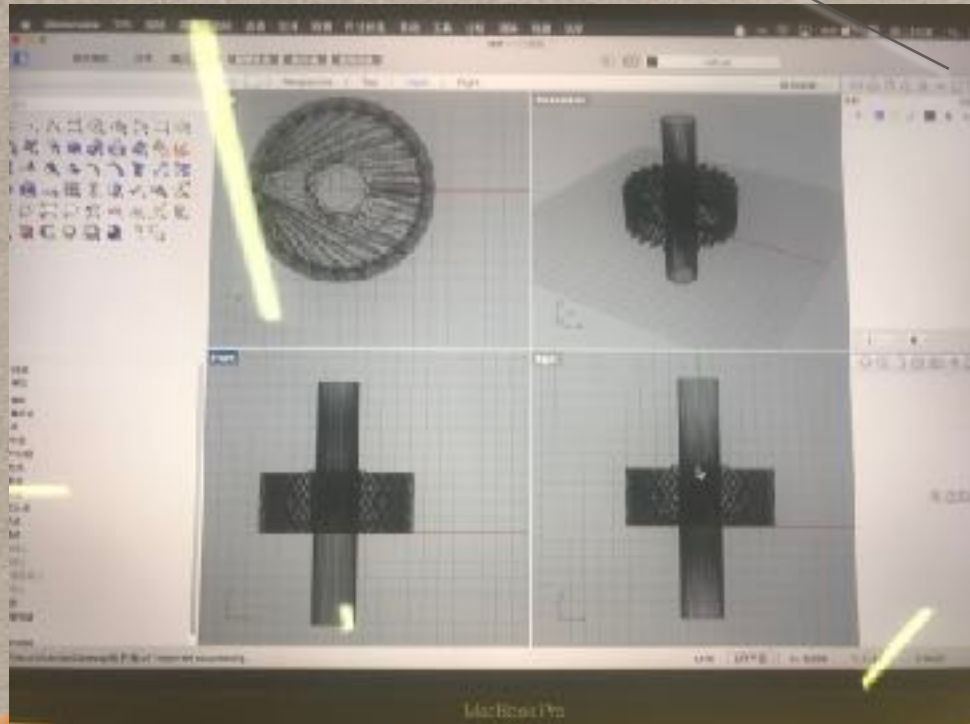
Design a rough sketch of my flower

*Put the circuit into
the wooden cube
And
Using welding
Instead of
Bread board*

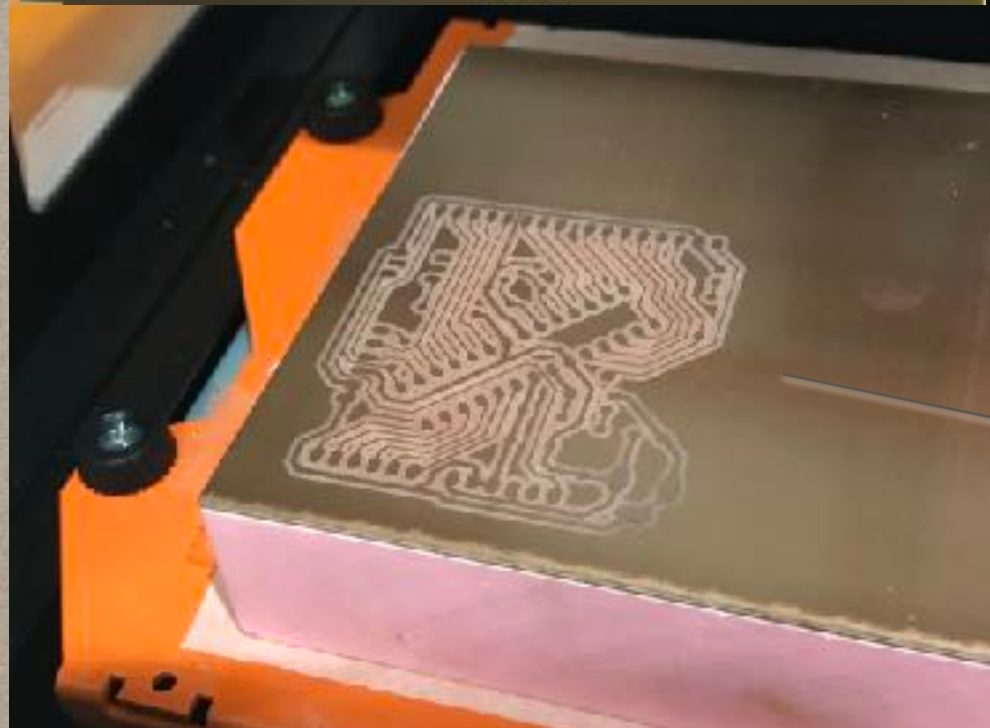


What I learnt in fablab?

3D/2D design with Rhino



Laser cutter



Milling machine to make PCB

WHAT CAN IT DO?

Decoration
Relieve the stress
Improve efficiency
...





*Thank you!
May you have
a good mood!*