

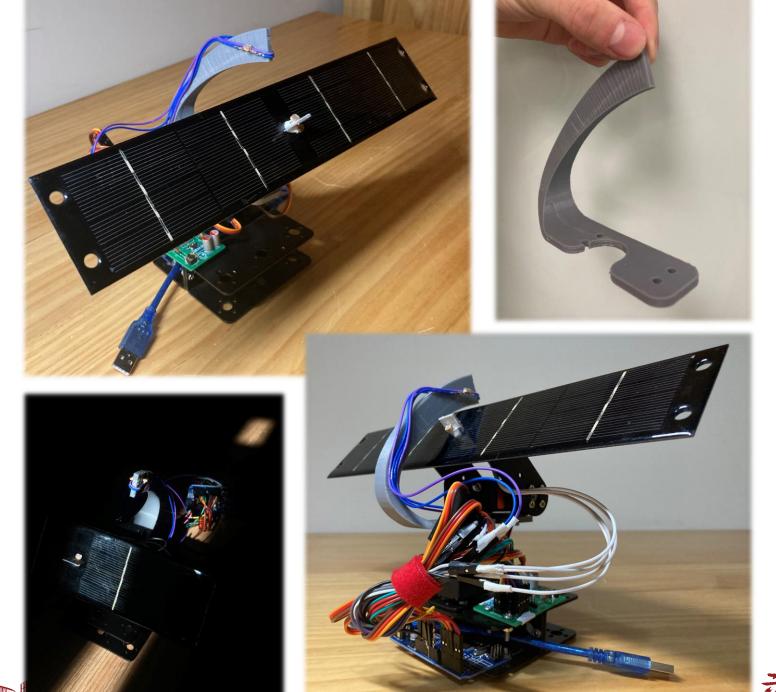


朱宇轩 2021.10.8

立志成才极国谷民











日的闪现

怎么追日





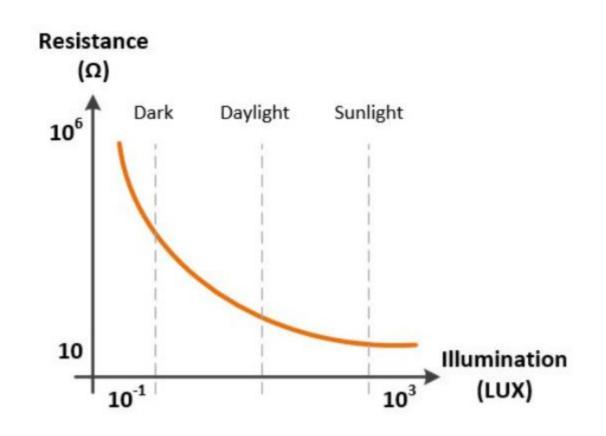
没日咋办



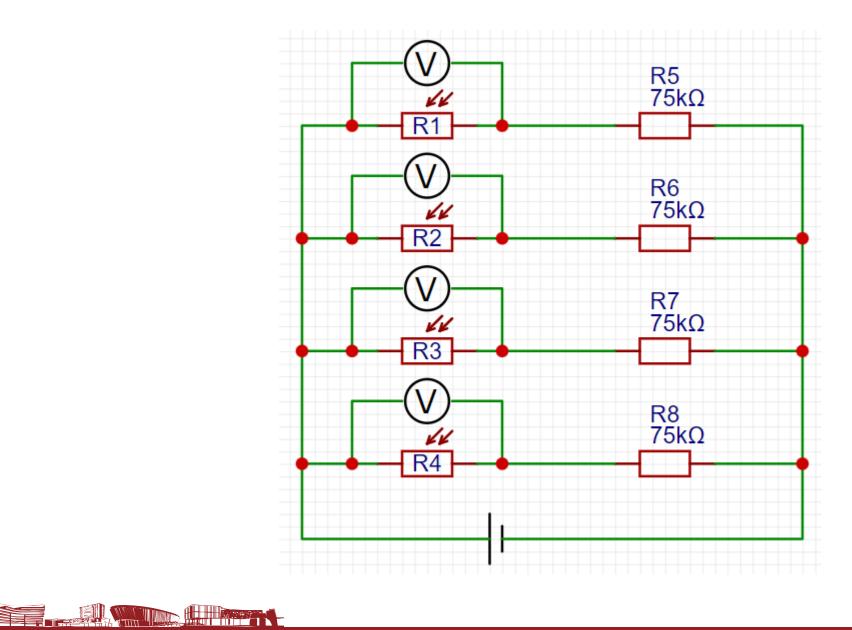




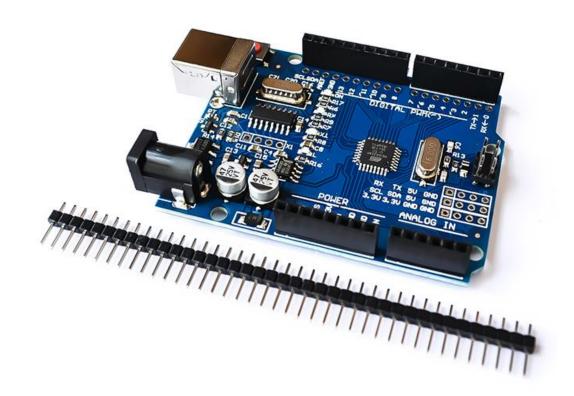
光敏电阻











Arduino

读取

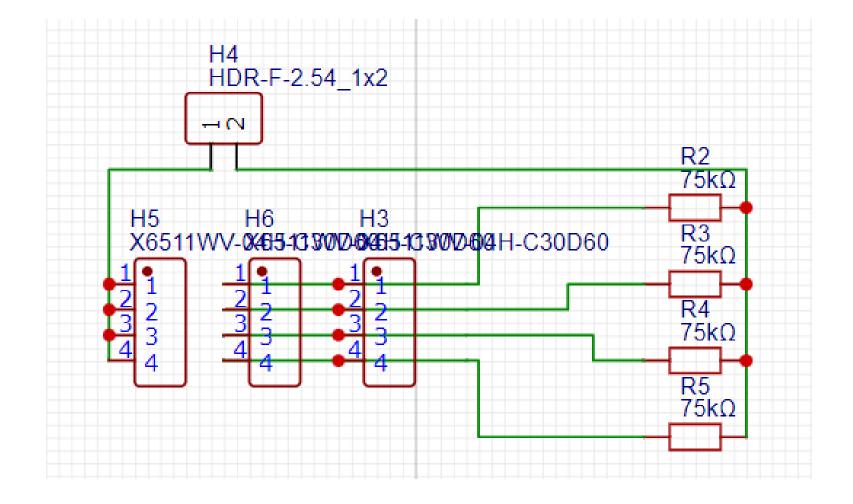
写入

供电

运算

比较







怎么追日





伺服电机







```
if (analogRead(A5) > analogRead(A4) + 100) {
   servo_A3.write((servo_A3.read() + rota));
   delay(5);
  } else if (analogRead(A4) > analogRead(A5) + 100) {
   servo A3.write((servo A3.read() - rota));
   delay(5);
  if (analogRead(A1) > analogRead(A0) + 50) {
   if (rota == 1 && servo A2.read() < 90 || rota == -1 && servo A2.read() >= 90) {
     servo_A2.write((servo_A2.read() + 1));
     delay(5);
  } else if (analogRead(A0) > analogRead(A1) + 50) {
   if (rota == 1 && servo_A2.read() <= 90 || rota == -1 && servo_A2.read() > 90) {
     servo_A2.write((servo_A2.read() - 1));
     delay(5);
```

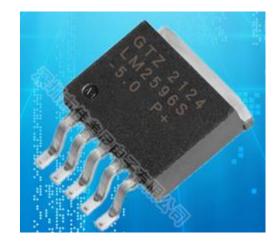




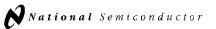








LM2596S



PRELIMINARY

LM2596

SIMPLE

S

WITCHER

2

Power

Converter

150

돐

3**A**

Step-Down

Voltage

Regulator

LM2596 SIMPLE SWITCHER® Power Converter 150 kHz 3A Step-Down Voltage Regulator

General Description

The LM2596 series of regulators are monolithic integrated temperature shutdown for complete protection under fault circuits that provide all the active functions for a step-down (buck) switching regulator, capable of driving a 3A load with excellent line and load regulation. These devices are available in fixed output voltages of 3.3V, 5V, 12V, and an adjustable output version.

Requiring a minimum number of external components, these regulators are simple to use and include internal frequency compensation†, and a fixed-frequency oscillator.

The LM2596 series operates at a switching frequency of 150 kHz thus allowing smaller sized filter components than what would be needed with lower frequency switching regulators. Available in a standard 5-lead TO-220 package with several different lead bend options, and a 5-lead TO-263 surface mount package.

A standard series of inductors are available from several different manufacturers optimized for use with the LM2596 series. This feature greatly simplifies the design of switchmode power supplies.

Other features include a guaranteed ±4% tolerance on output voltage under specified input voltage and output load conditions, and ±15% on the oscillator frequency. External shutdown is included, featuring typically 80 µA standby current. Self protection features include a two stage frequency reducing current limit for the output switch and an over

conditions

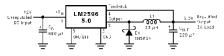
Features

- 3.3V, 5V, 12V, and adjustable output versions
- Adjustable version output voltage range, 1.2V to 37V ±4% max over line and load conditions
- Available in TO-220 and TO-263 packages
- Guaranteed 3A output load current
- Input voltage range up to 40V
- Requires only 4 external components
- Excellent line and load regulation specifications
- 150 kHz fixed frequency internal oscillator
- TTL shutdown capability
- Low power standby mode, IQ typically 80 µA
- High efficiency
- Uses readily available standard inductors
- Thermal shutdown and current limit protection

Applications

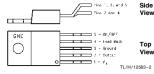
- Simple high-efficiency step-down (buck) regulator
- On-card switching regulators
- Positive to negative converter

Typical Application (Fixed Output Voltage Versions)



Connection Diagrams and Ordering Information

Bent and Staggered Leads, Through Hole Package 5-Lead TO-220 (T)



Order Number LM2596T-3.3, LM2596T-5.0, LM2596T-12 or LM2596T-ADJ See NS Package Number T05D

5-Lead TO-263 (S) 4 - Feed Back 5 - Ground 2 - Output 1 - V_{IN}

Surface Mount Package

Order Number LM2596S-3.3, LM2596S-5.0, LM2596S-12 or LM2596S-ADJ See NS Package Number TS5B

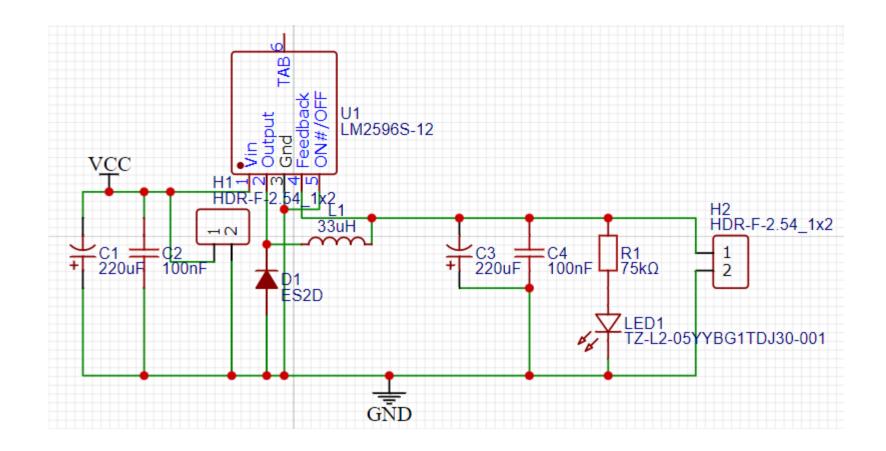
†Patent Number 5,382,918, SIMPLE SWITCHER® and Switchers Made Simple® are registered trademarks of National Semiconductor Corporatio

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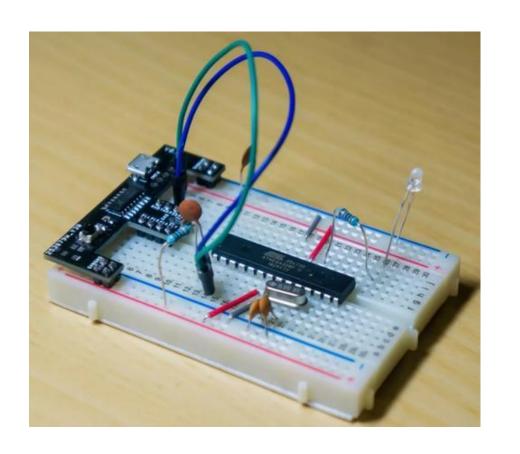






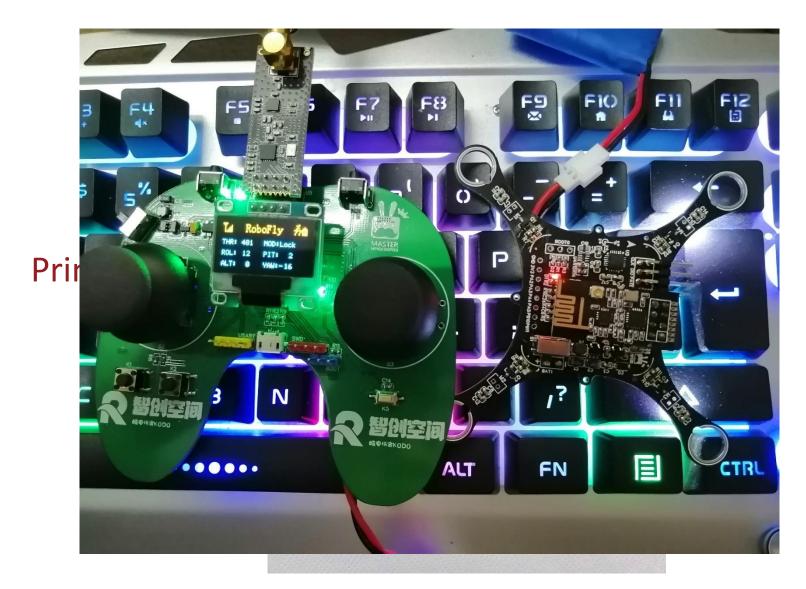


面包板



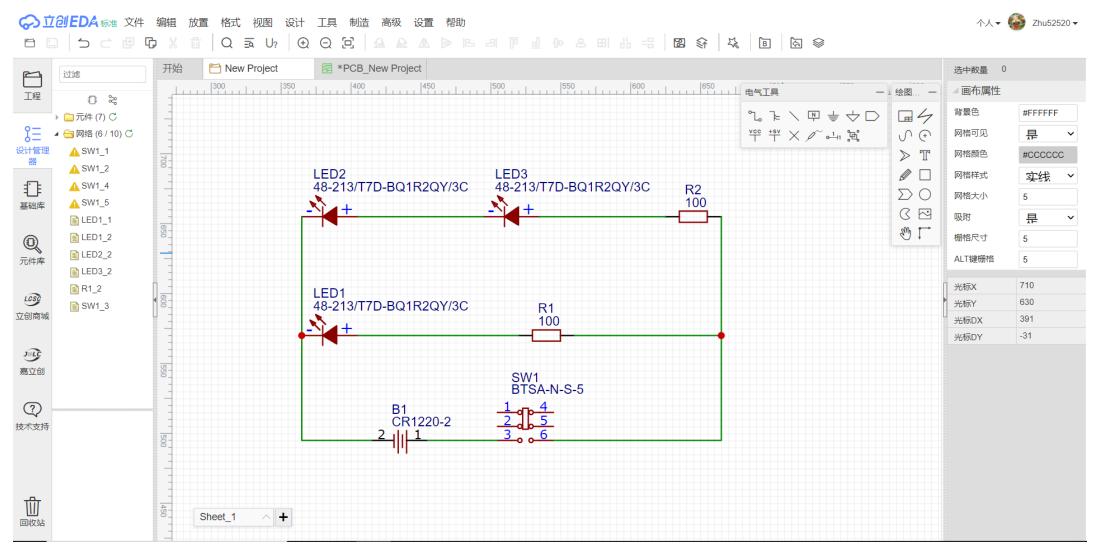




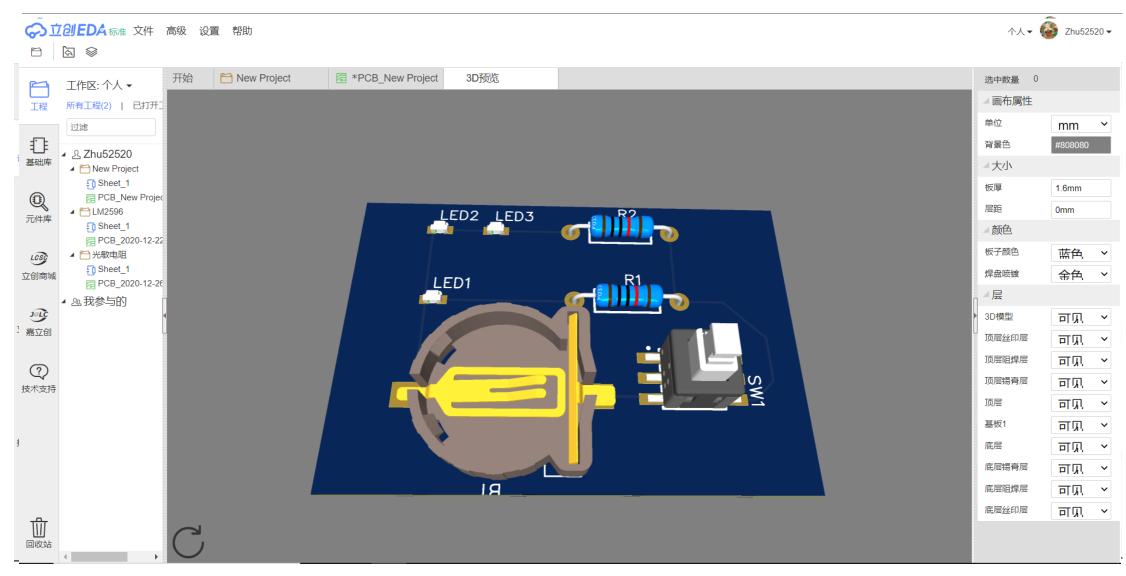






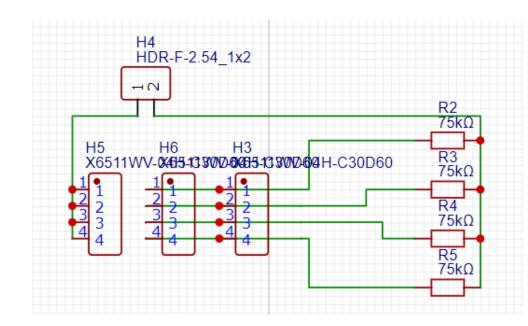


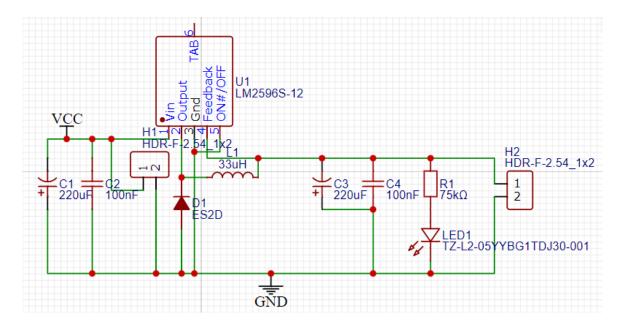




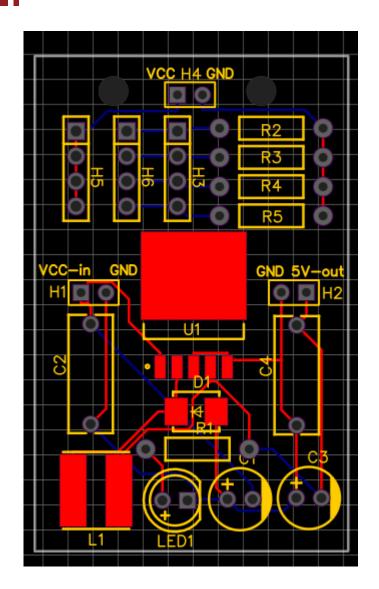


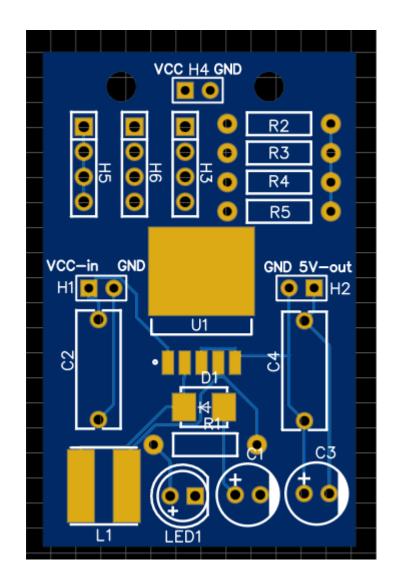


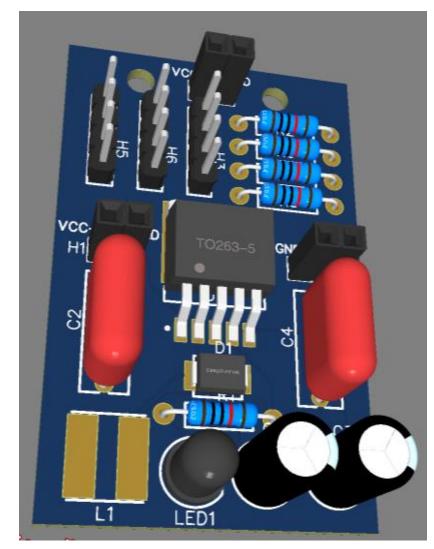








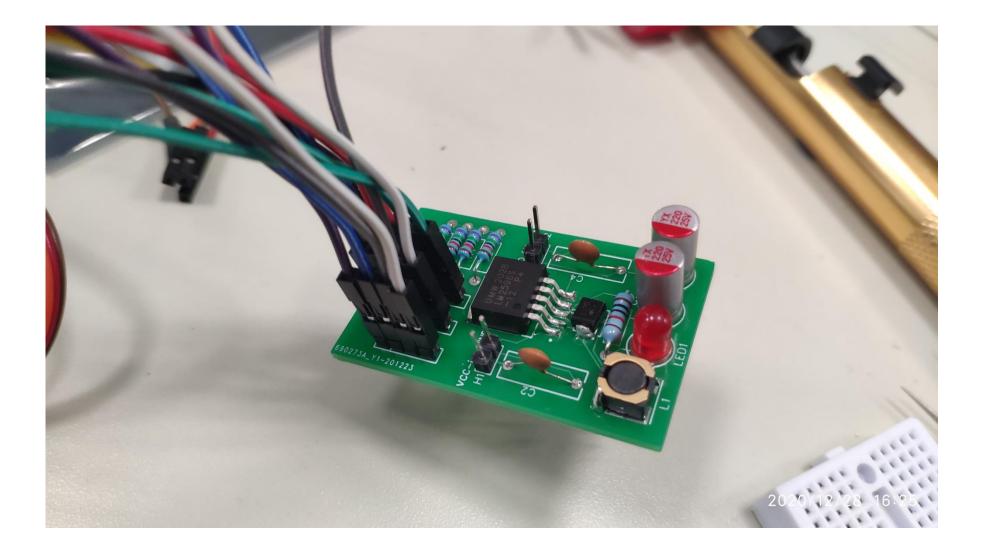












没日咋办





太阳下山之后,向日葵怎么回头?



月半弯,月光下的你显得特别的好看。

有个问题困扰我很多年,向日葵跟着太阳转,从东边转到西边。那第二天早上是怎么回到东边的? 一个猛甩头?是的,你晚上走过向日葵花海,几十万株向日葵突然就一个猛回头。吓得你从此生活 不能自理。

发布于 2015-10-23





没日咋办

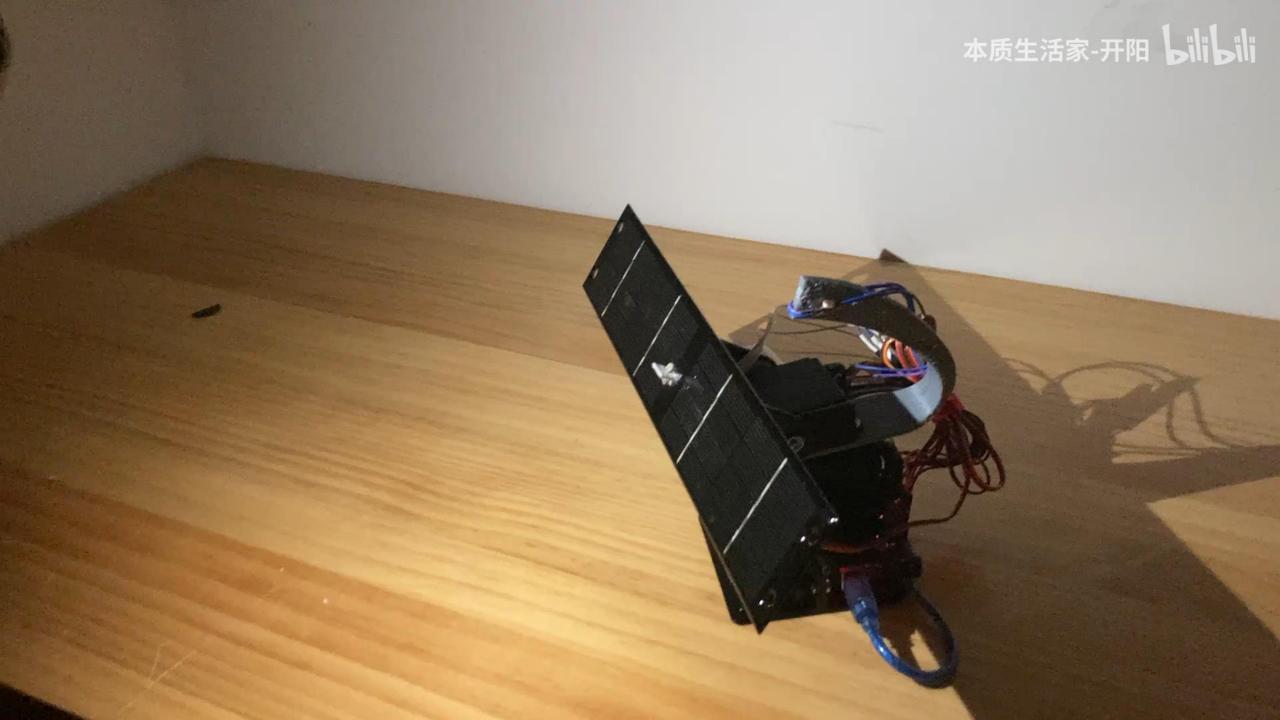


```
while (flag == 1) {
   if ((analogRead(A5) <= 800 && analogRead(A4) <= 800) && (analogRead(A1) <= 800
&& analogRead(A0) <= 800)) {
    flag = 0;
    break;
servo_A3.write(90);
  delay(7);
  servo_A2.write(90);
  delay(7);
 flag = 1;
```













```
if (analogRead(A5) > analogRead(A4) + 100) {
   servo_A3.write((servo_A3.read() + rota));
   delay(5);
  } else if (analogRead(A4) > analogRead(A5) + 100) {
   servo A3.write((servo A3.read() - rota));
   delay(5);
  if (analogRead(A1) > analogRead(A0) + 50) {
   if (rota == 1 && servo A2.read() < 90 || rota == -1 && servo A2.read() >= 90) {
     servo A2.write((servo A2.read() + 1));
     delay(5);
  } else if (analogRead(A0) > analogRead(A1) + 50) {
   if (rota == 1 && servo_A2.read() <= 90 || rota == -1 && servo_A2.read() > 90) {
     servo_A2.write((servo_A2.read() - 1));
     delay(5);
```

日的闪现



```
if (servo_A3.read() == 180 && (servo_A2.read() >= 120 || servo_A2.read() <= 60)) {
    servo_A2.write((180 - servo_A2.read()));
    delay(750);
    servo_A3.write(5);
    delay(750);
    rota = rota * -1;
if (servo_A3.read() == 0 && (servo_A2.read() >= 120 || servo_A2.read() <= 60)) {
    servo_A2.write((180 - servo_A2.read()));
    delay(750);
    servo_A3.write(175);
    delay(750);
    rota = rota * -1;
```