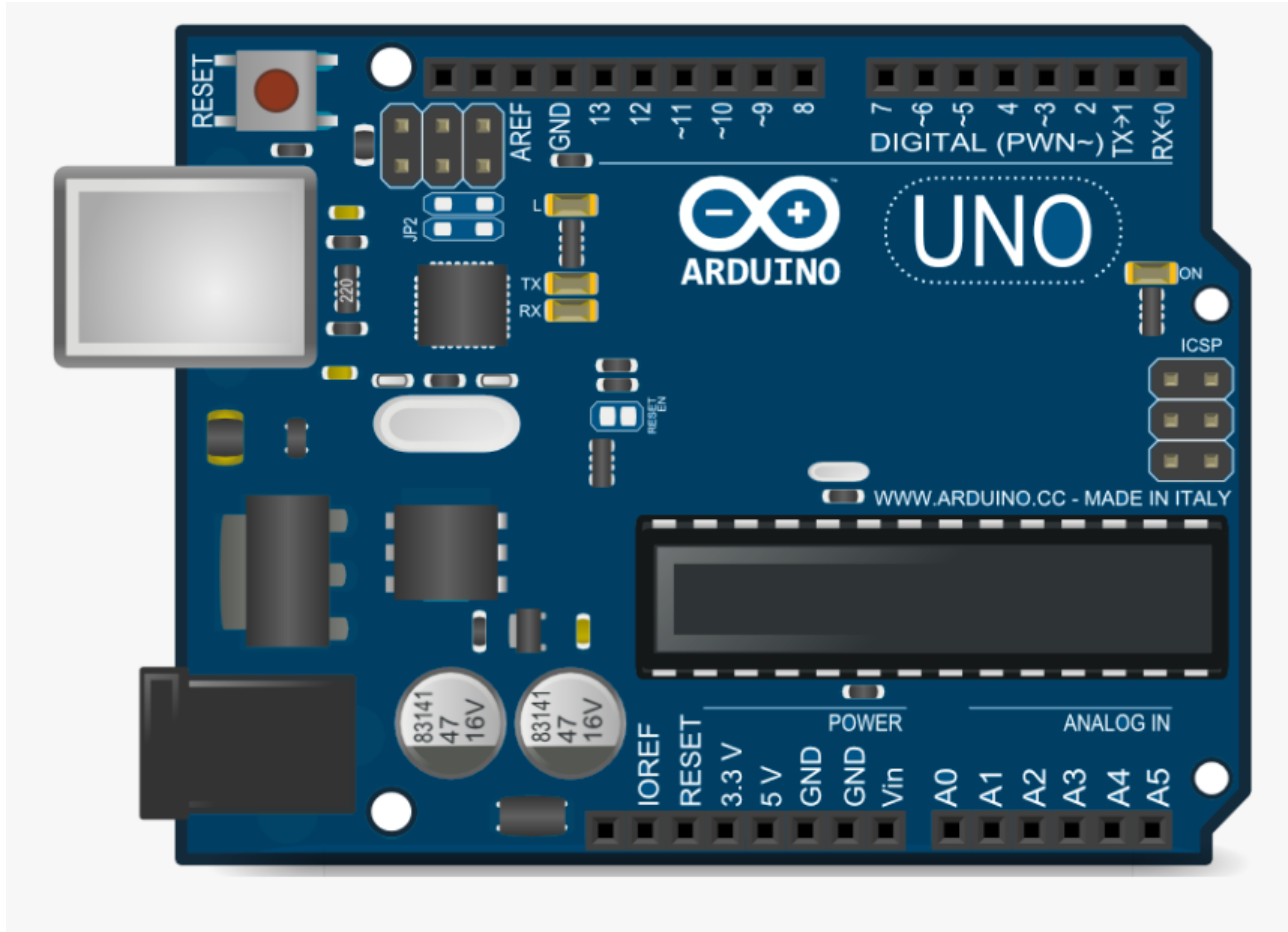
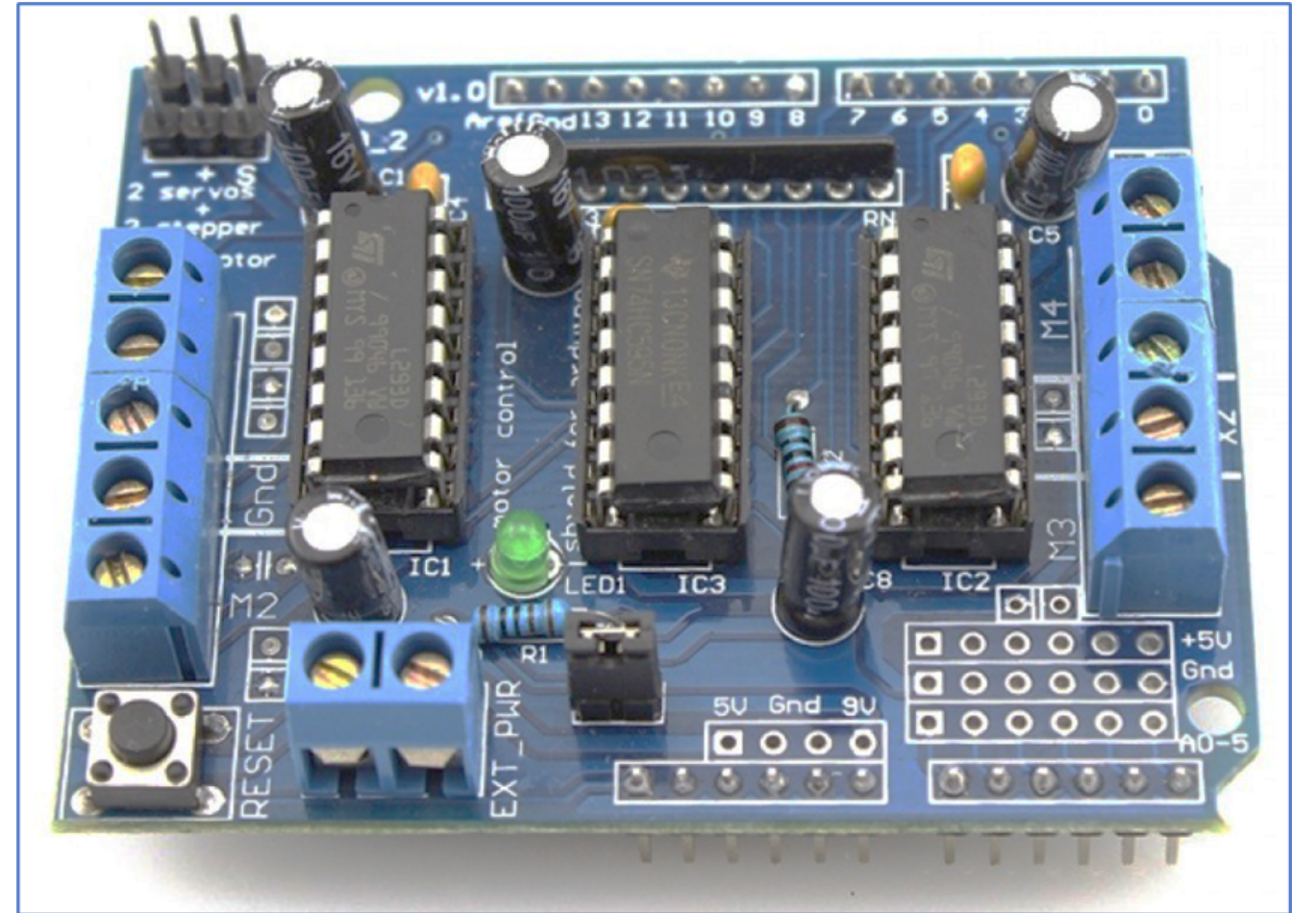


# BILLS OF MATERIAL



ARDUINO UNO R3



MOTORSHIELD



CHASSIS



BATTERY

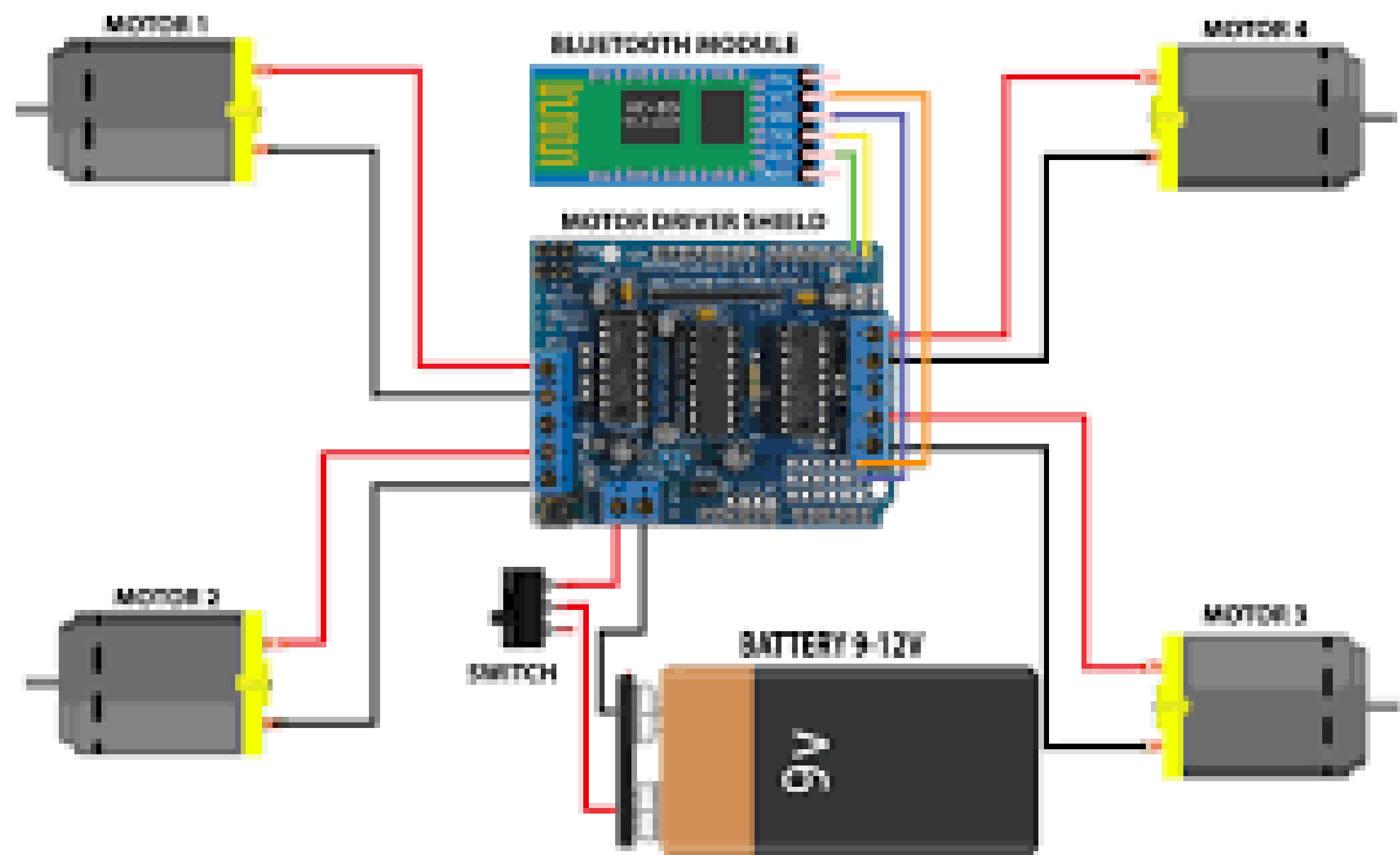


JUMPER PINS

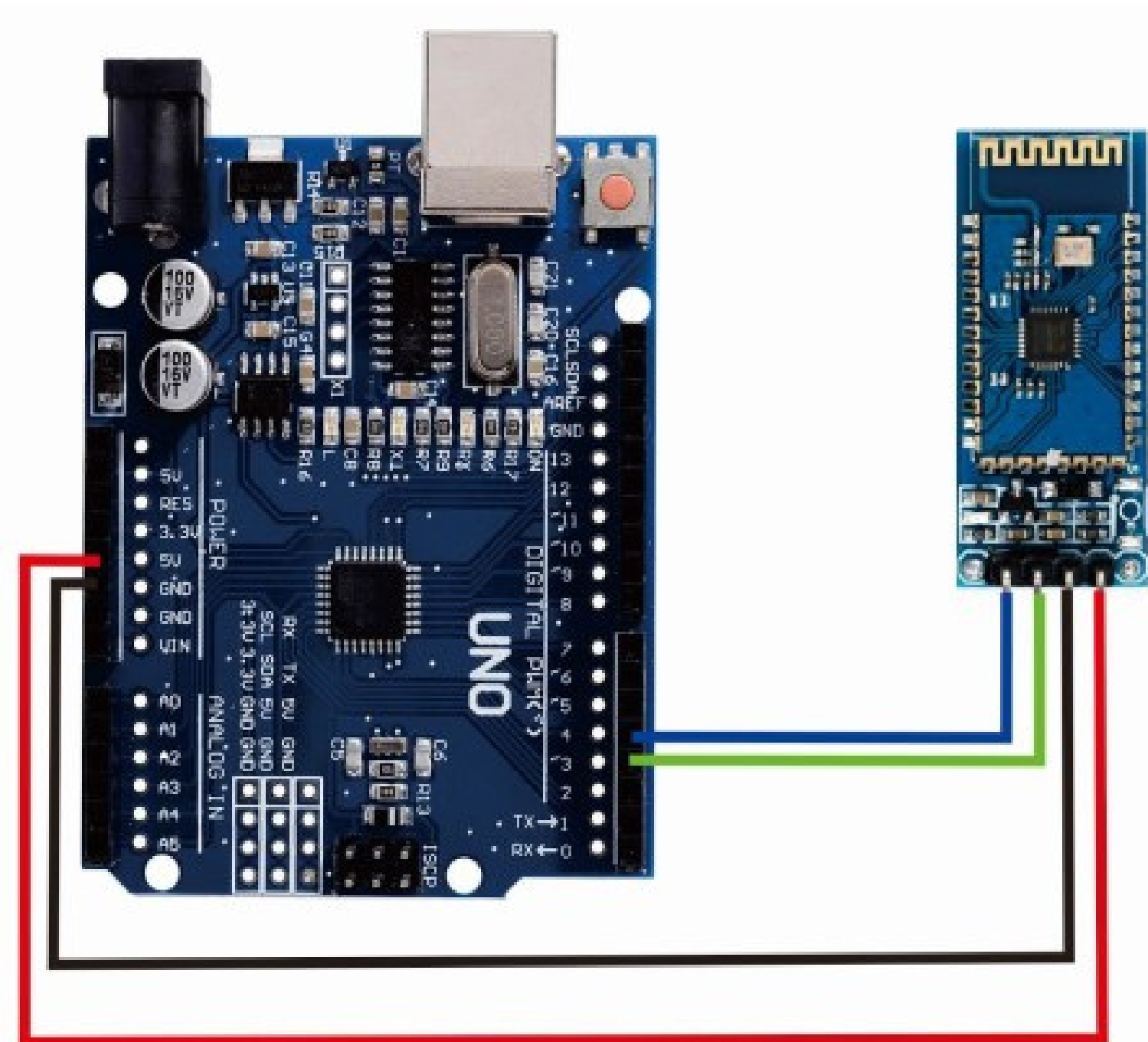


HC05 BLUETOOTH

CIRCUIT DAIGRAM



ARDUINO & HC05 CIRCUIT



Arduino		BT	
5V		VCC	
GND		GND	
D3		TX	
D4		RX	



# ARDUINO IDE TO BURN CODE TO BOARD

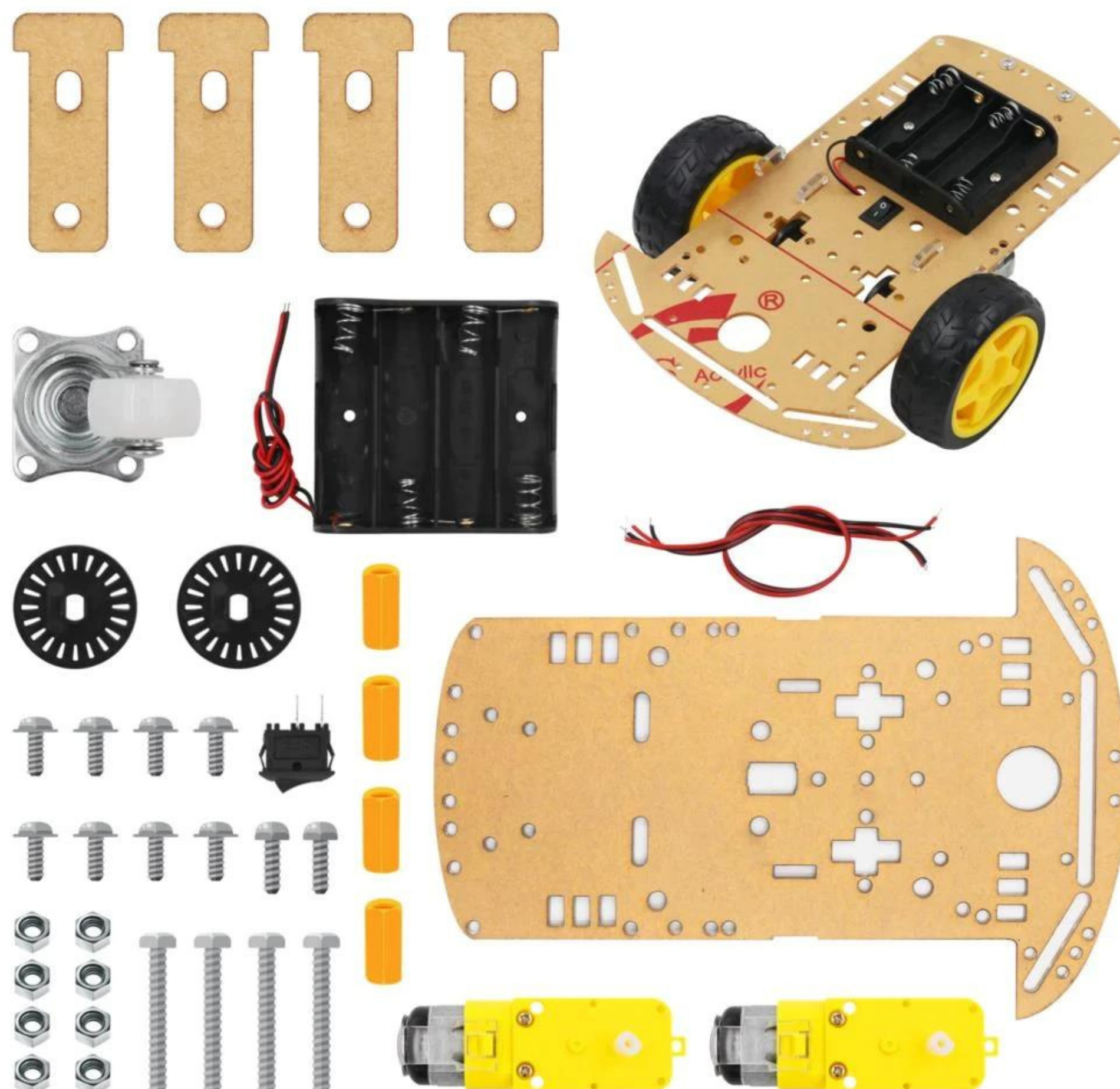
```
Blink | Arduino 1.6.13
File Edit Sketch Tools Help

Blink

// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000); // wait for a second
  digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
  delay(1000); // wait for a second
}
```

## CHASSIS ASSEMBLY



## SOURCE CODE

```
#include <AFMotor.h>
AF_DCMotor motor1(1);
AF_DCMotor motor2(2);

char bt='S';
void setup(){
  Serial.begin(38400);
  motor1.setSpeed(255);
  motor2.setSpeed(255);
  Stop();
}

void loop()
{
  bt=Serial.read();
  if(bt=='F'){
    forward();
  }

  if(bt=='B')
  {
    backward();}
  if(bt=='L'){
    left();}
  if(bt=='R')
  {
    right();
  }
  if(bt=='S')
  {
    Stop();
  }
}

void forward(){
  motor1.run(FORWARD);
  motor2.run(FORWARD);
}

void backward(){
  motor1.run(BACKWARD);
  motor2.run(BACKWARD);
}

void left(){
  motor1.run(FORWARD);
  motor2.run(BACKWARD);
}
void right(){
  motor1.run(BACKWARD);
  motor2.run(FORWARD);
}
void Stop(){
  motor1.run(RELEASE);
  motor2.run(RELEASE);
}
```

## Website Links and Playstore link

Arduino Download Link : <https://www.arduino.cc/en/software>

Google Play Store

[https://play.google.com/store/apps/details?id=braulio.calle.bluetoothRCcontroller&hl=en\\_IN&gl=US](https://play.google.com/store/apps/details?id=braulio.calle.bluetoothRCcontroller&hl=en_IN&gl=US)

CHASSIS

[https://www.amazon.in/ApTechDeals-Wheel-Chassis-Encoder-Arduino/dp/B07T5KN36M/ref=sr\\_1\\_2?crid=4BRXQ3P88G0J&dchild=1&keywords=chassis+for+arduino+car&qid=1626623196&sprefix=chassis+%2Caps%2C307&sr=8-2](https://www.amazon.in/ApTechDeals-Wheel-Chassis-Encoder-Arduino/dp/B07T5KN36M/ref=sr_1_2?crid=4BRXQ3P88G0J&dchild=1&keywords=chassis+for+arduino+car&qid=1626623196&sprefix=chassis+%2Caps%2C307&sr=8-2)

ARDUINO MOTOR SHIELD

[https://www.amazon.in/Ai-STORE-L293D-Shield-Arduino-Mega2560/dp/B07Y6H9S8J/ref=sr\\_1\\_47?dchild=1&keywords=arduino+uno&qid=1626623425&sr=8-47](https://www.amazon.in/Ai-STORE-L293D-Shield-Arduino-Mega2560/dp/B07Y6H9S8J/ref=sr_1_47?dchild=1&keywords=arduino+uno&qid=1626623425&sr=8-47)

ARDUINO UNO

[https://www.amazon.in/Development-Board-ATmega328P-ATmega16U2-Arduino/dp/B00H1HR576/ref=pd\\_sbs\\_3/262-7095609-4708503?pd\\_rd\\_w=U17iT&pf\\_rd\\_p=18688541-e961-44b9-b86a-bd9b8fa83027&pf\\_rd\\_r=T2M98SGYFQ9D7EC686S3&pd\\_rd\\_r=cccd1c29-01fb-477b-bb63-bee05d758662&pd\\_rd\\_wg=M01L3&pd\\_rd\\_i=B00H1HR576&psc=1](https://www.amazon.in/Development-Board-ATmega328P-ATmega16U2-Arduino/dp/B00H1HR576/ref=pd_sbs_3/262-7095609-4708503?pd_rd_w=U17iT&pf_rd_p=18688541-e961-44b9-b86a-bd9b8fa83027&pf_rd_r=T2M98SGYFQ9D7EC686S3&pd_rd_r=cccd1c29-01fb-477b-bb63-bee05d758662&pd_rd_wg=M01L3&pd_rd_i=B00H1HR576&psc=1)

HC05 BLUETOOTH

[https://www.amazon.in/ePro-Labs-WLC-0002-Bluetooth-Module/dp/B01AJVQQY8/ref=sr\\_1\\_3?crid=3QP59C98YDKHJ&dchild=1&keywords=hc05+bluetooth+module&qid=1626624141&sprefix=HC05+%2Caps%2C436&sr=8-3](https://www.amazon.in/ePro-Labs-WLC-0002-Bluetooth-Module/dp/B01AJVQQY8/ref=sr_1_3?crid=3QP59C98YDKHJ&dchild=1&keywords=hc05+bluetooth+module&qid=1626624141&sprefix=HC05+%2Caps%2C436&sr=8-3)

BATTERY

[https://www.amazon.in/Envie-9V-Rechargeable-Chargable-Batteries/dp/B00NQBWLCA/ref=sr\\_1\\_1\\_sspaK](https://www.amazon.in/Envie-9V-Rechargeable-Chargable-Batteries/dp/B00NQBWLCA/ref=sr_1_1_sspaK)

JACK

[https://www.amazon.in/EPICTAC-Battery-snapper-2-1x5-5mm-Center-Positive/dp/B08JSQWJCG/ref=sr\\_1\\_3](https://www.amazon.in/EPICTAC-Battery-snapper-2-1x5-5mm-Center-Positive/dp/B08JSQWJCG/ref=sr_1_3)

BITBUCKET LINK AFMOTOR.H

<https://github.com/adafruit/Adafruit-Motor-Shield-library>

## MOBILE APP SCREEN

