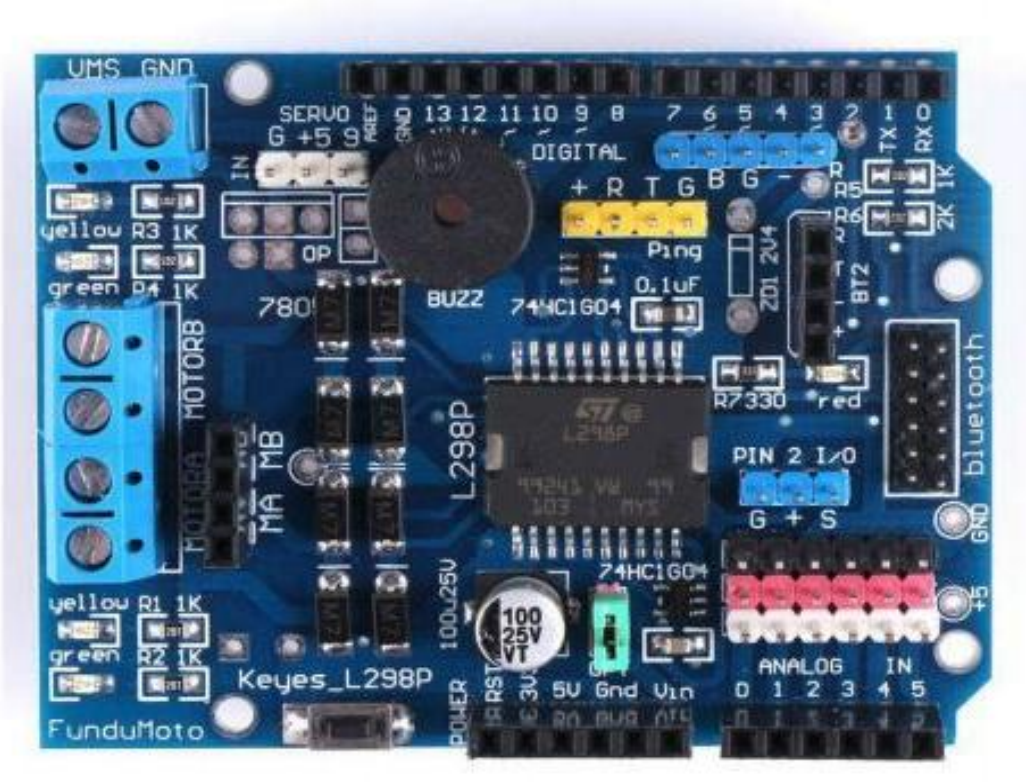
SYNACORP TECHNOLOGIES SDN. BHD. (1310487-K)
No.25 Lorong 1/SS3, Bandar Tasek Mutiara,
14120 Simpang Ampat, Penang, Malaysia.
T: +604.586.0026 F: +604.586.0026
www.synacorp.my | Email: sales@synacorp.com.my

Arduino L298P 2A Motor Driver Shield

Introduction:

L298P Shield DC motor driver adopts the L298P driver chip wich is exclusively made for large-power motor. It can drive 2 DC motors directly with a drive current reaching 2A. The motor output is equipped with eight high-speed schottky diode as protection. This driver carries neat circuit layout and bonded components, in addition, the multi-layer design enables it to be plugged to Arduino directly.

L298P Shield DC motor driver carries PWM mode. The motor can be powered via Arduino VIN input or terminal input on the driver, which are switchable by jumper.



SYNACORP TECHNOLOGIES SDN. BHD. (1310487-K)
No.25 Lorong 1/SS3, Bandar Tasek Mutiara,
14120 Simpang Ampat, Penang, Malaysia.
T: +604.586.0026 F: +604.586.0026
www.synacorp.my | Email: sales@synacorp.com.my

Components:

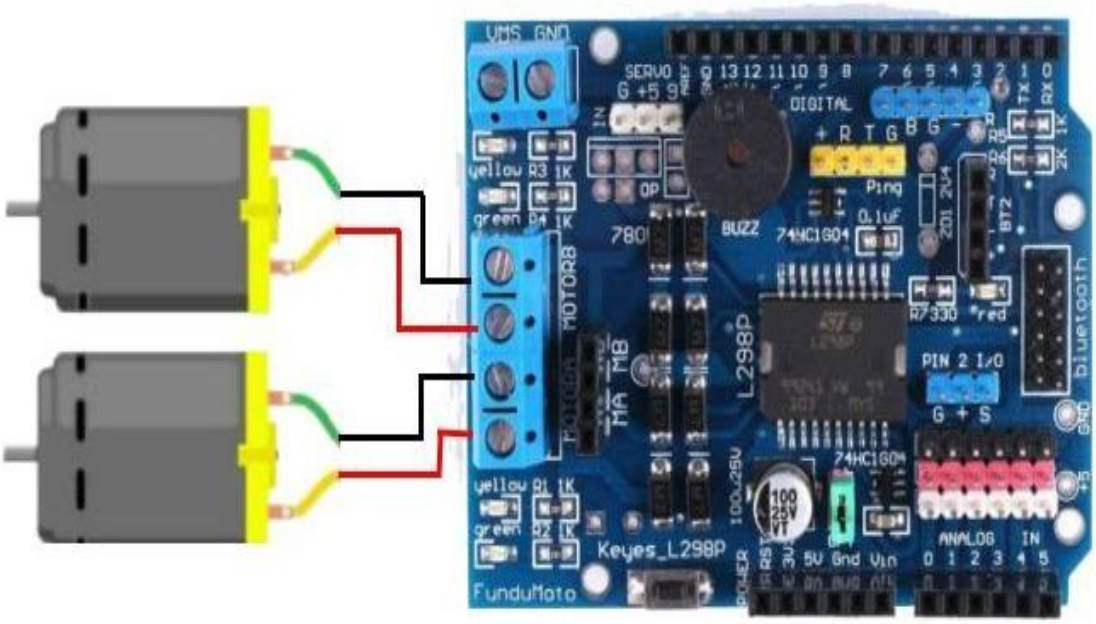
- Arduino L298P 2A Motor Driver Shield (1x)
- Arduino Uno Board (1x)
- 3V-6V Miniature DC Brush Motor w/o Gear (2x)
- Several Jump Wires
- USB Cable (1x)

Objectives:

Allows to easily control motor direction and speed using an Arduino.

Procedures:

Step 1: Build the circuit.



Step 2: Insert the sample programming provided below by copy and paste it into Arduino IDE.

```
int E1 = 10;
int M1 = 12;
int E2 =11;
int M2 = 13;

void setup()
{
pinMode(M1, OUTPUT);
pinMode(M2, OUTPUT);
}

void loop()
{
  {
  int value;
  for(value = 0 ; value <= 255; value+=5)
    {
     digitalWrite(M1,HIGH);
     digitalWrite(M2, HIGH);
     analogWrite(E1, value);
     analogWrite(E2, value);
     delay(30);
    }
   delay(1000);
 }
 {
  int value;
  for(value = 0 ; value <= 255; value+=5)
   {
    digitalWrite(M1,LOW);
    digitalWrite(M2, LOW);
    analogWrite(E1, value);
    analogWrite(E2, value);
    delay(30);
   }
  delay(1000);
  }
}
```