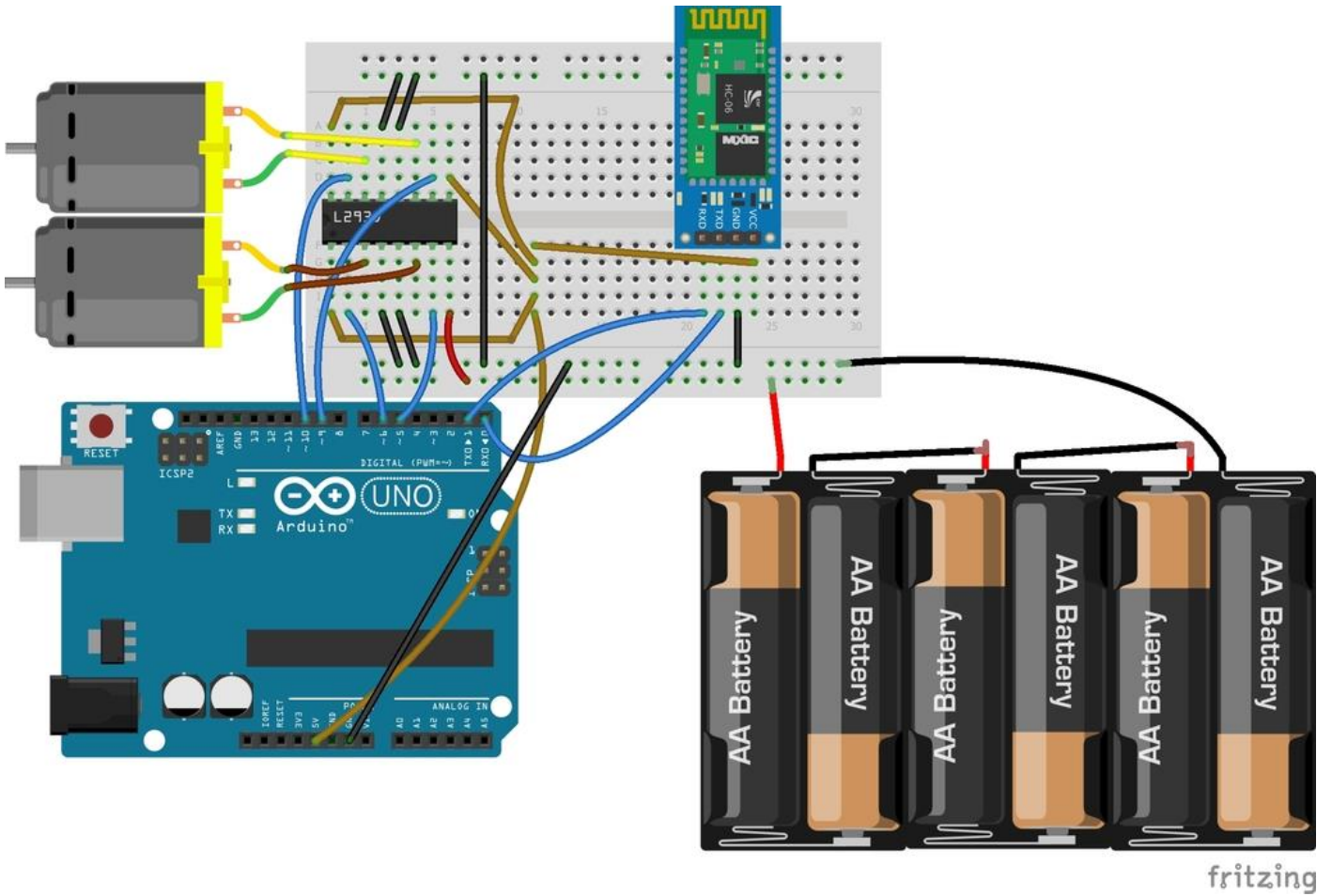


Projecte-6: BlueTooth-2



Required Equipment

1. Arduino
2. L283D Motor driver IC
3. 2 DC Motors
4. HC-05 Bluetooth Module
5. Breadboard
6. Connecting Wires

```
int first_motor_pin1 = 10;
int first_motor_pin2 = 9;
int second_motor_pin1 = 6;
int second_motor_pin2 = 5;
int state;
int flag = 0;

void setup ( )
{
  Serial.begin (9600);
  pinMode (first_motor_pin1, OUTPUT);
  pinMode (first_motor_pin2, OUTPUT);
  pinMode (second_motor_pin1, OUTPUT);
  pinMode (second_motor_pin2, OUTPUT);
}
```

void loop () {

```
if(Serial.available() > 0){
  state = Serial.read( );
  flag = 0;
}
if (state == '1') {
  digitalWrite (first_motor_pin1, LOW);
  digitalWrite (first_motor_pin2, HIGH);
  digitalWrite (second_motor_pin1, HIGH);
  digitalWrite (second_motor_pin2, HIGH);
  if(flag == 0){
    Serial.println("Left Motor ON");
    flag = 1;
  }
}
else if (state == '2') {
  digitalWrite (first_motor_pin1, HIGH);
  digitalWrite (first_motor_pin2, HIGH);
  digitalWrite (second_motor_pin1, HIGH);
  digitalWrite (second_motor_pin2, LOW);
  if(flag == 0){
    Serial.println("Right Motor ON");
    flag = 1;
  }
}
else if (state == '3') {
  digitalWrite (first_motor_pin1, LOW);
  digitalWrite (first_motor_pin2, HIGH);
  digitalWrite (second_motor_pin1, HIGH);
  digitalWrite (second_motor_pin2, LOW);
  if(flag == 0){
    Serial.println("Both Motors Clockwise");
    flag = 1;
  }
}
else if (state == '4') {
  digitalWrite (first_motor_pin1, HIGH);
  digitalWrite (first_motor_pin2, LOW);
  digitalWrite (second_motor_pin1, LOW);
  digitalWrite (second_motor_pin2, HIGH);
  if(flag == 0){
    Serial.println("Both Motors Anti-clockwise");
    flag = 1;
  }
}
else if (state == '0') {
  digitalWrite (first_motor_pin1, LOW);
  digitalWrite (first_motor_pin2, LOW);
  digitalWrite (second_motor_pin1, LOW);
  digitalWrite (second_motor_pin2, LOW);
  if(flag == 0){
    Serial.println("Both Motors OFF");
    flag = 1;
  }
}
}
```

- 1. Introducció/Objectius**
- 2. Components/Materials**
- 3. Anàlisi-funcionament:**
- 4. Anàlisi-Codi:**
- 5. Canvis-realitzats:**
- 6. Experimentacions:**
- 7. Simulació-Tinkercad**
- 8. Fotos/Videos**
- 9. Aplicacions:**
- 10. Problemes/Conclusions:**