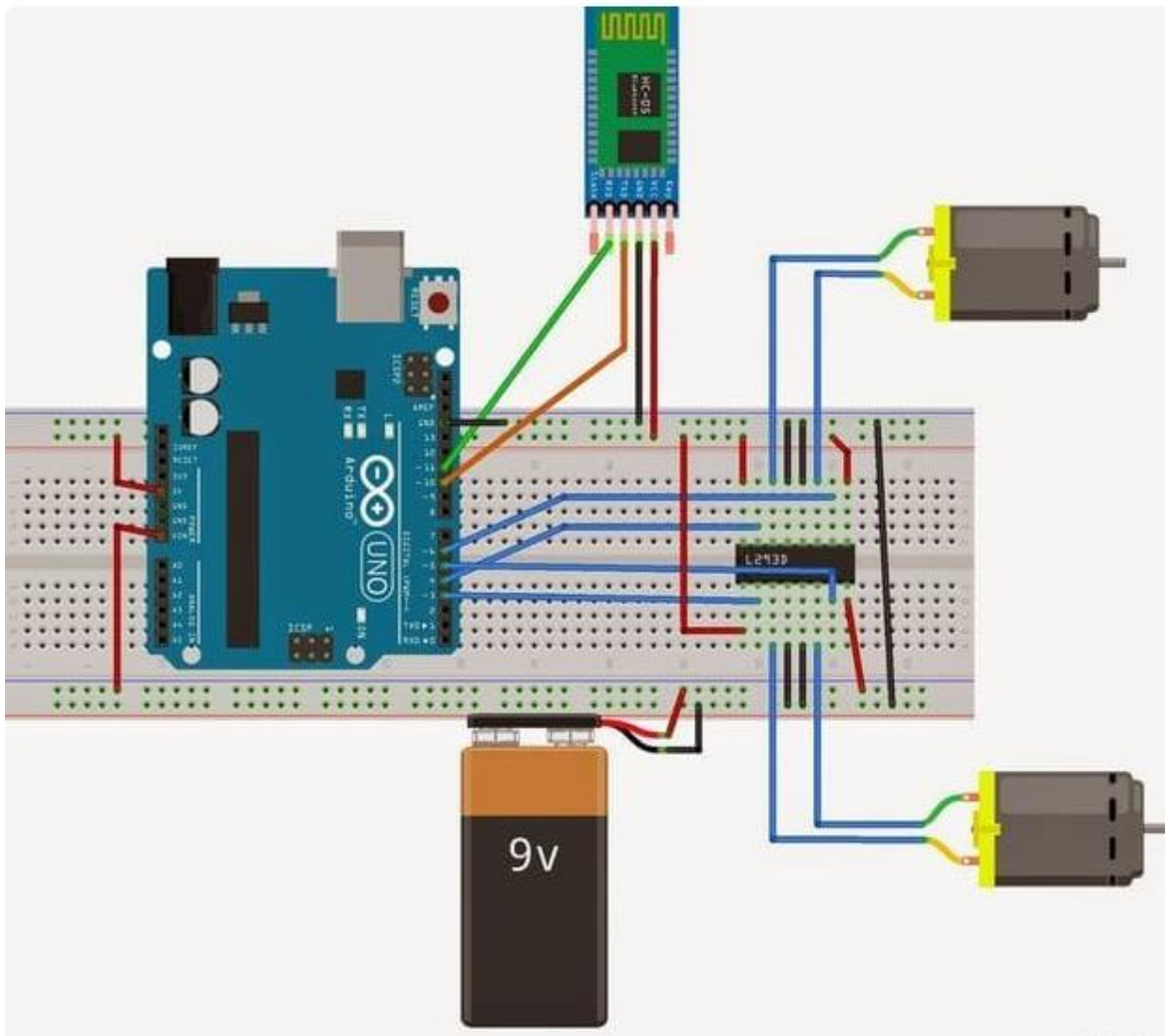


Projecte-4: Dron-2



Required Equipment

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

```
int motorPin1 = 3;
int motorPin2 = 4;
int motorPin3 = 5;
int motorPin4 = 6;
int state;
int flag;
void setup() {
  Serial.begin(9600);
  pinMode(3, OUTPUT);
  pinMode(4, OUTPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
}
void loop() {
  if (Serial.available() > 0) {
    state = Serial.read();
    flag = 0;
  }
  if (state == '0') {
    digitalWrite(3, LOW);
    digitalWrite(4, LOW);
    digitalWrite(5, LOW);
    digitalWrite(6, LOW );
    if (flag == 0) {
      Serial.println("MOTOR:off");
      flag = 1;
    }
  }
  else if (state == '1') {
    digitalWrite(3, LOW);
    digitalWrite(4, HIGH);
    if (flag == 0) {
      Serial.println("MOTOR1:right");
      flag = 1;
    }
  }
  else if (state == '2') {
    digitalWrite(3, HIGH);
    digitalWrite(4, LOW );
    if (flag == 0) {
      Serial.println("MOTOR1:left");
      flag = 1;
    }
  }
  else if (state == '3') {
    digitalWrite(5, LOW);
    digitalWrite(6, HIGH);
    if (flag == 0) {
      Serial.println("MOTOR2:right");
      flag = 1;
    }
  }
  else if (state == '4') {
    digitalWrite(5, HIGH);
    digitalWrite(6, LOW );
    if (flag == 0) {
      Serial.println("MOTOR2:LEFT");
      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:**