

Arduino and Relay

Connecting to a Fan

Wiring the Relay

NC – COM – NO | NC – COM – NO

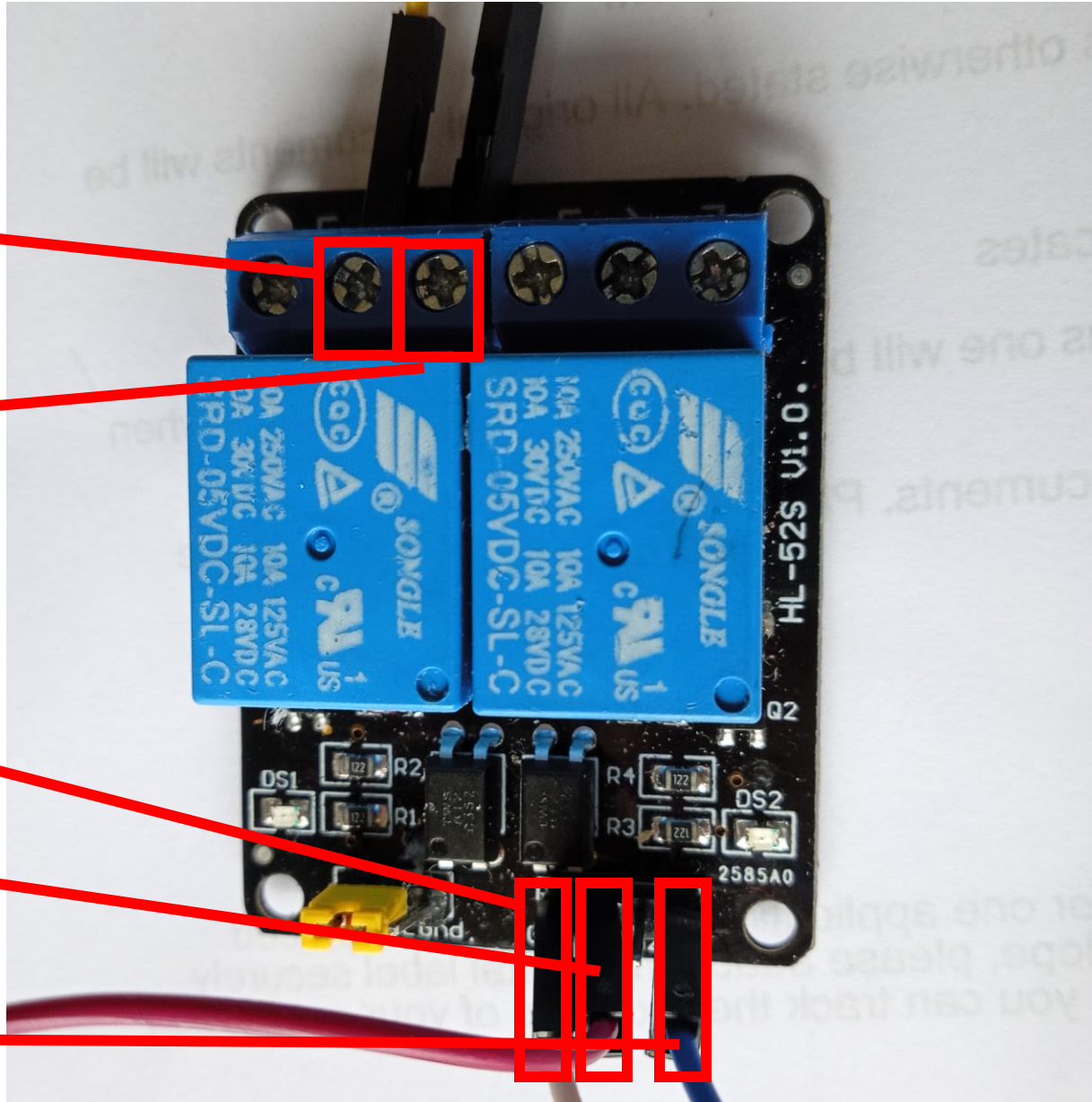
Positive of battery to
COM of relay

Positive of fan to NO
(normally Open)

Ground to ground of arduino

IN1 (Reay 1) To pin 7 of arduino

VCC To 5V of arduino

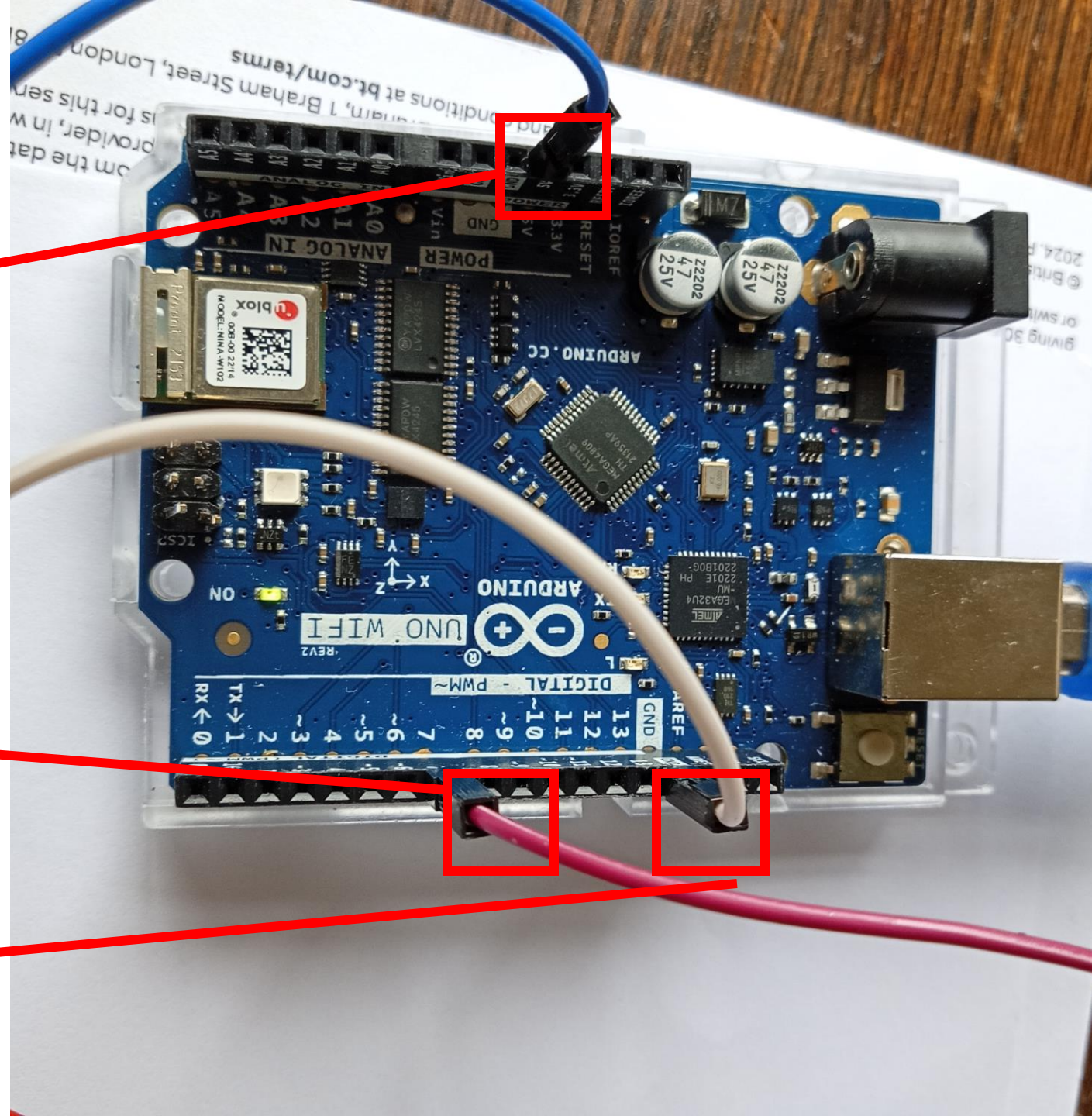


Wiring the Arduino

Pin 7 to IN1 of Relay

5V to VCC of Relay

Grounds to Ground of Relay



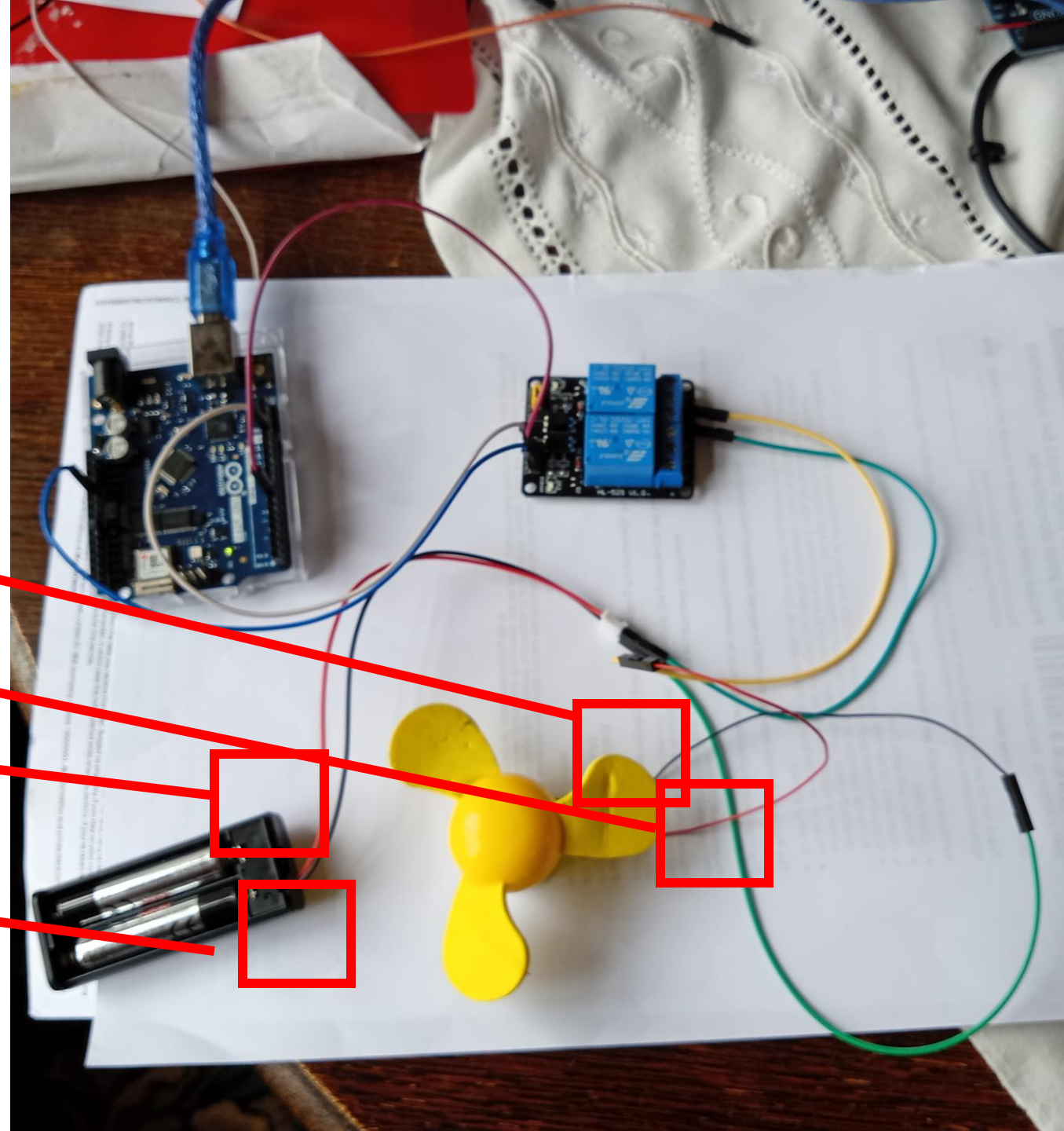
All together

Negative of fan to
negative of battery

Positive of fan to NO of
relay

Positive of battery to
COM of relay

Negative of battery to
negative of fan



Arduino Basic Sketch

```
// Pin connected to relay IN1
const int RELAY1 = 7;
void setup() {
    pinMode(RELAY1, OUTPUT);
    digitalWrite(RELAY1, HIGH); // Relay OFF at start (active LOW)
}
void loop() {
    // Turn relay ON (motor runs)
    digitalWrite(RELAY1, LOW);
    delay(3000); // motor runs for 3 seconds
    // Turn relay OFF (motor stops)
    digitalWrite(RELAY1, HIGH);
    delay(3000); // motor rests for 3 seconds
}
```


Video of Circuit

