



Hassas Tarım ve Tarımsal Robotlar Bölümü

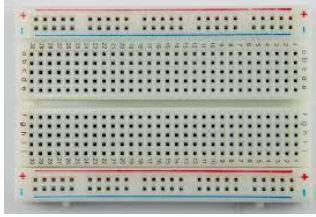
Otomatik Sulama Sistemi

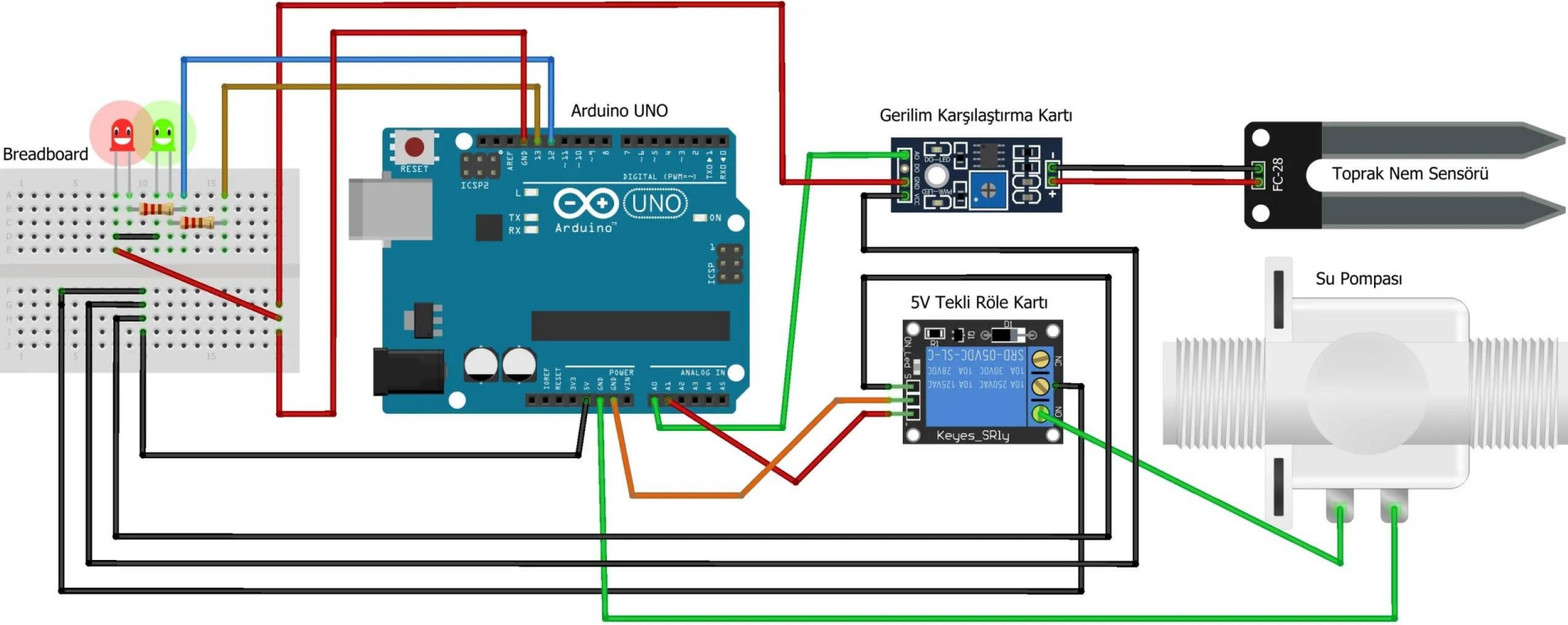
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GEREKLİ MALZEMELER

- Arduino Uno SMD + USB Kablo
- Mini Breadboard
- Toprak Nem Sensörü
- 5V Tekli Röle Kartı
- Mini Dalgıç Su Pompası Motoru
- Su Pompası Hortumu
- 9V Pil ve Pil Klipsi
- Jumper Kablo Seti
- Adaptör





```

1  #define ToprakSensoru A0
2  #define SuMotoru A1
3  #define YesilLed 13
4  #define KirmiziLed 12
5
6  void setup() {
7  pinMode (ToprakSensoru, INPUT);
8  pinMode (SuMotoru, OUTPUT);
9  pinMode (YesilLed, OUTPUT);
10 pinMode (KirmiziLed, OUTPUT);
11 digitalWrite (SuMotoru, HIGH);
12 Serial.begin (9600);
13 }
14
15 void loop() {
16   if (analogRead (ToprakSensoru) > 700)
17   {
18     digitalWrite (SuMotoru, LOW);
19     digitalWrite (YesilLed, LOW);
20     digitalWrite (KirmiziLed, HIGH);
21   }
22   else
23   {
24     digitalWrite (SuMotoru, HIGH);
25     digitalWrite (YesilLed, HIGH);
26     digitalWrite (KirmiziLed, LOW);
27   }
28   delay (1000);
29 }

```