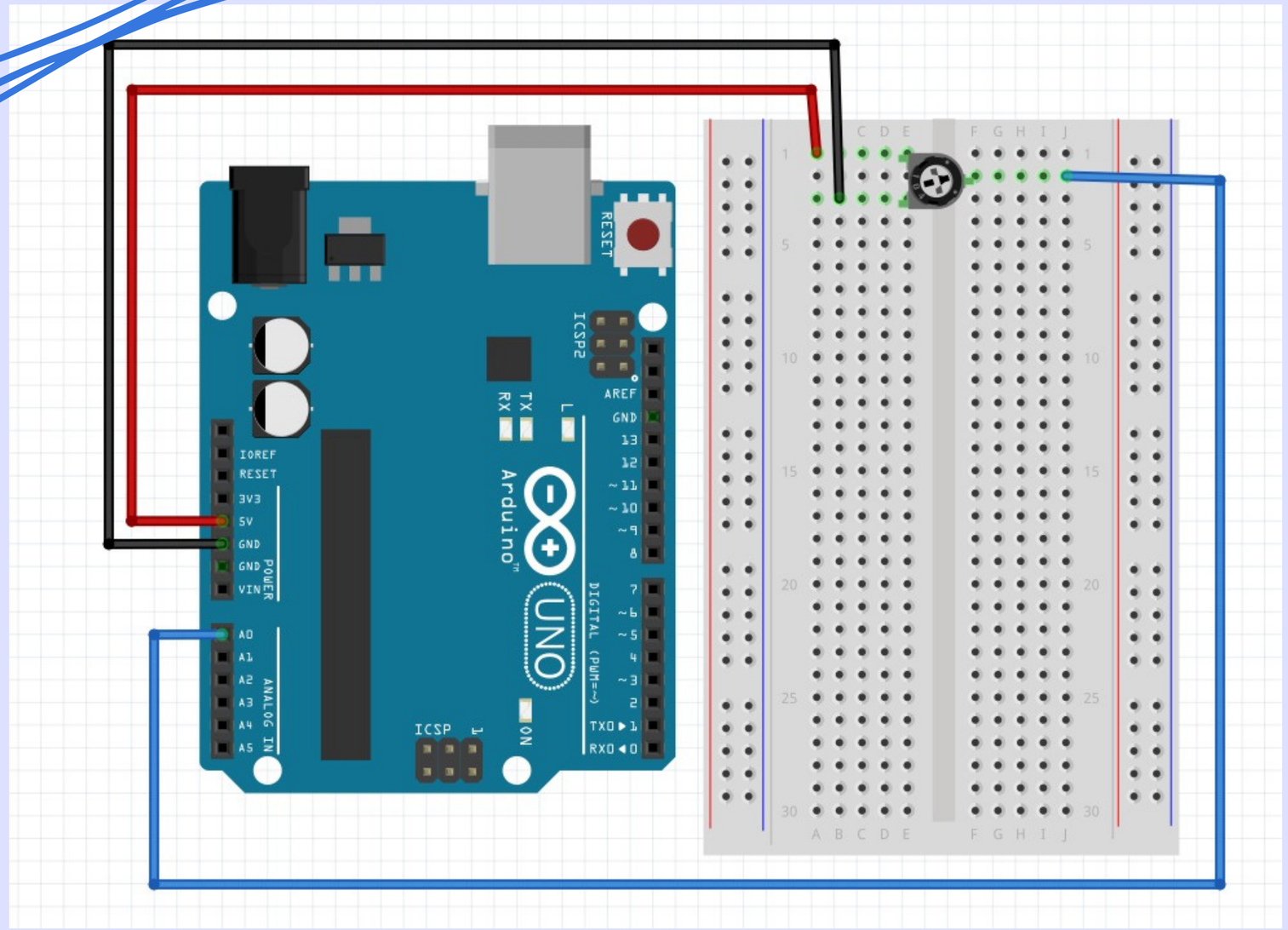
Nome dell'azienda

Laboratorio 2 Robotica

Joseph Molina
Daniel pensa

Indice

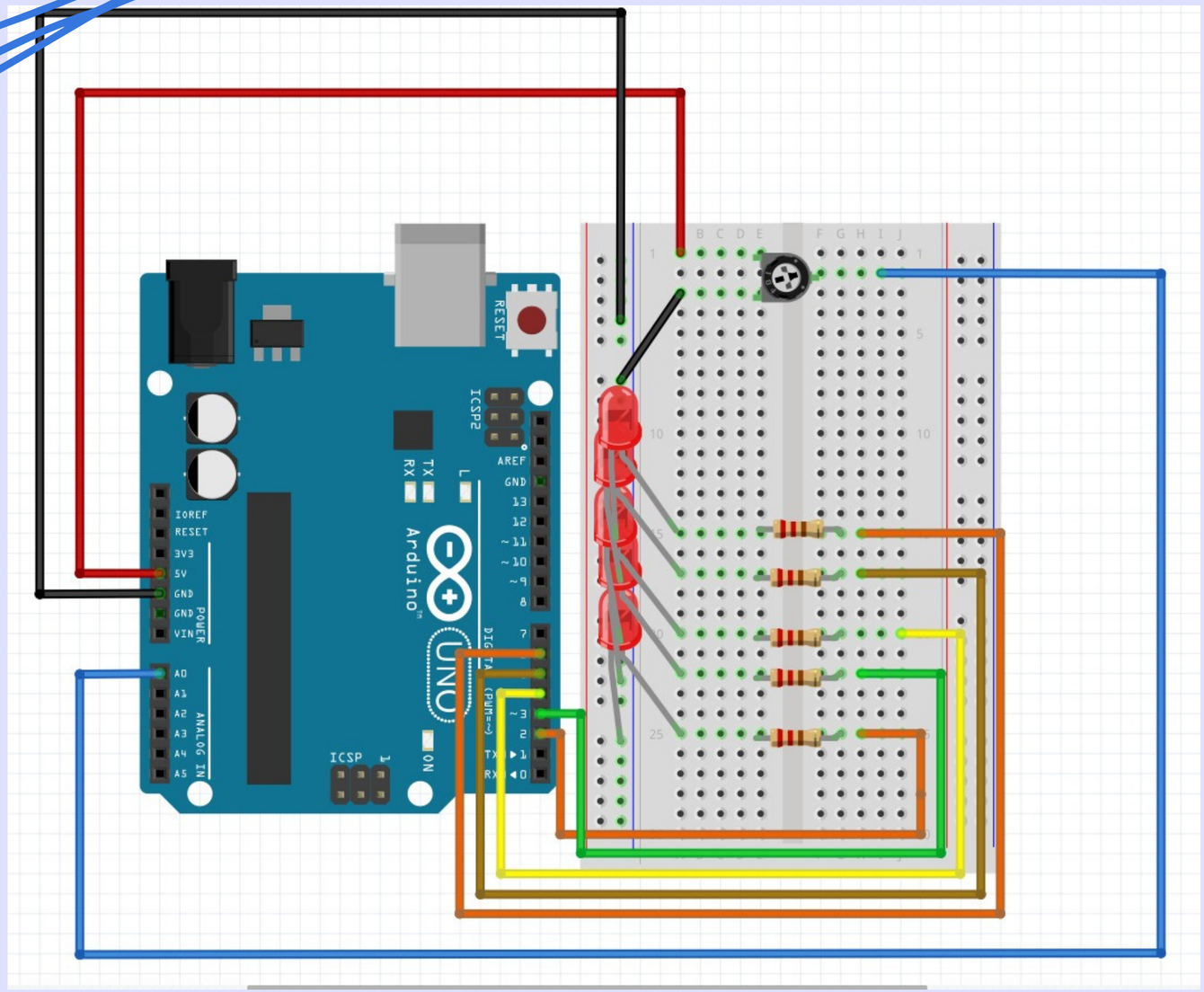
Lettura potenziometro singolo




```
Int Pot=A0;
Int Val = 0;
Float Voltaggio;

Void setup{
PinMode(Pot,INPUT);
Serial.Begin(9600);
}
Void Loop{
Val = analogRead(Pot);
Voltaggio= value*5/1023;
Serial.Print(Voltaggio);
}
```

Striscia di LED azionataa con potenziometro

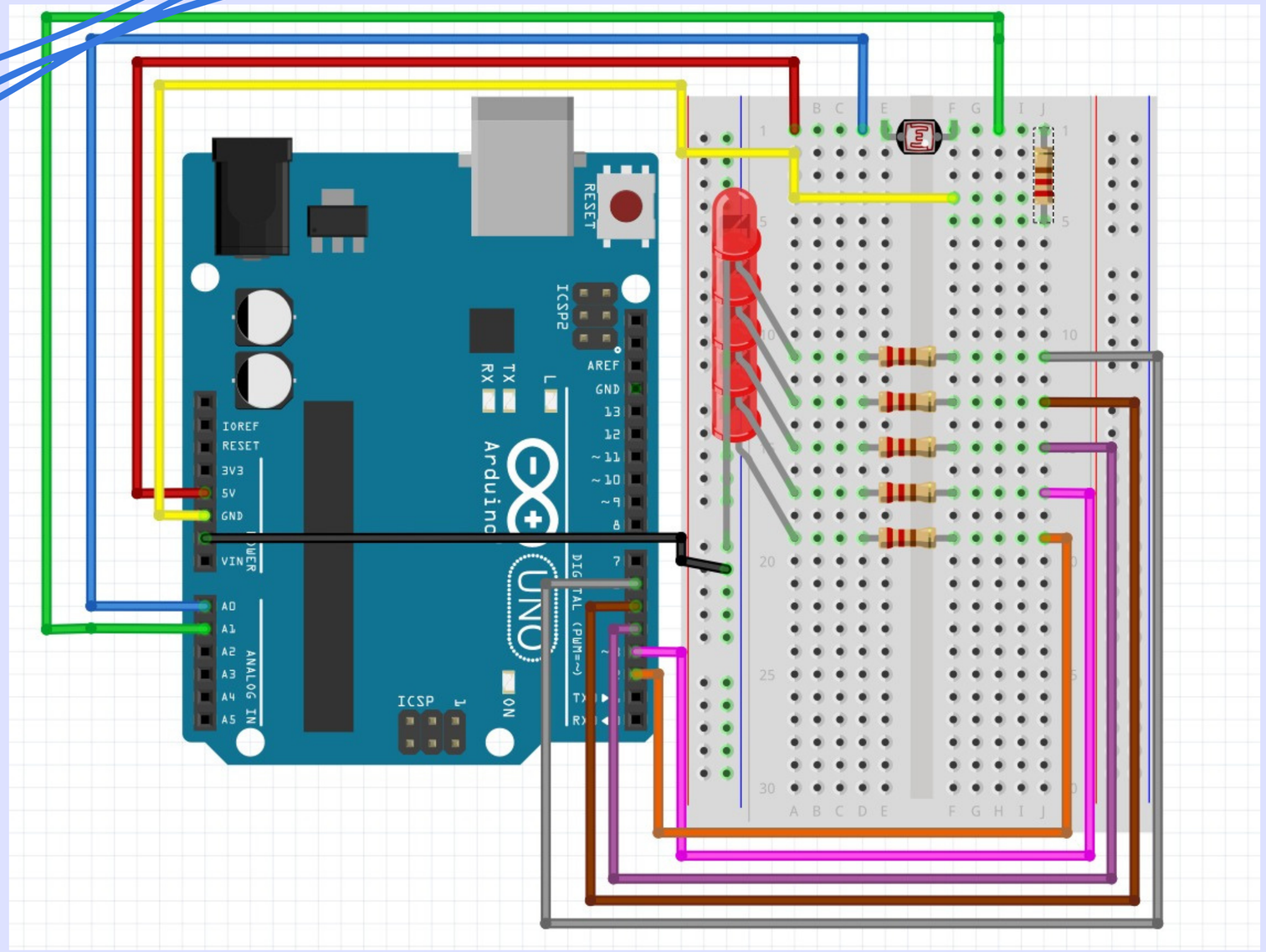



```ino
int cap1=A0;
int cap2=A1;
float value1;
float value2;
float voltaggio1;
float voltaggio2;
float diff;
const int analogPin = A0; // the pin that the
const int ledCount = 6; // the number of LEDs
int ledPins[] = {2, 3, 4, 5};

void setup() {
  // put your setup code here, to run once:
  pinMode(cap1,INPUT);
  pinMode(cap2,INPUT);
  Serial.begin(9600);
}

void loop() {
  //  your main code here, to run repeatedly:
  value1=analogRead(cap1);
  value2=analogRead(cap2);
  voltaggio1=value1*5/1023;
  voltaggio2=value2*5/1023;
  diff=voltaggio1-voltaggio2;
  Serial.print(voltaggio1);
  Serial.print(" , ");
  Serial.print(voltaggio2);
  Serial.print(" , ");
  Serial.println(diff);
  delay(500);
}
```

Striscia di LED azionataa con fotoresistore

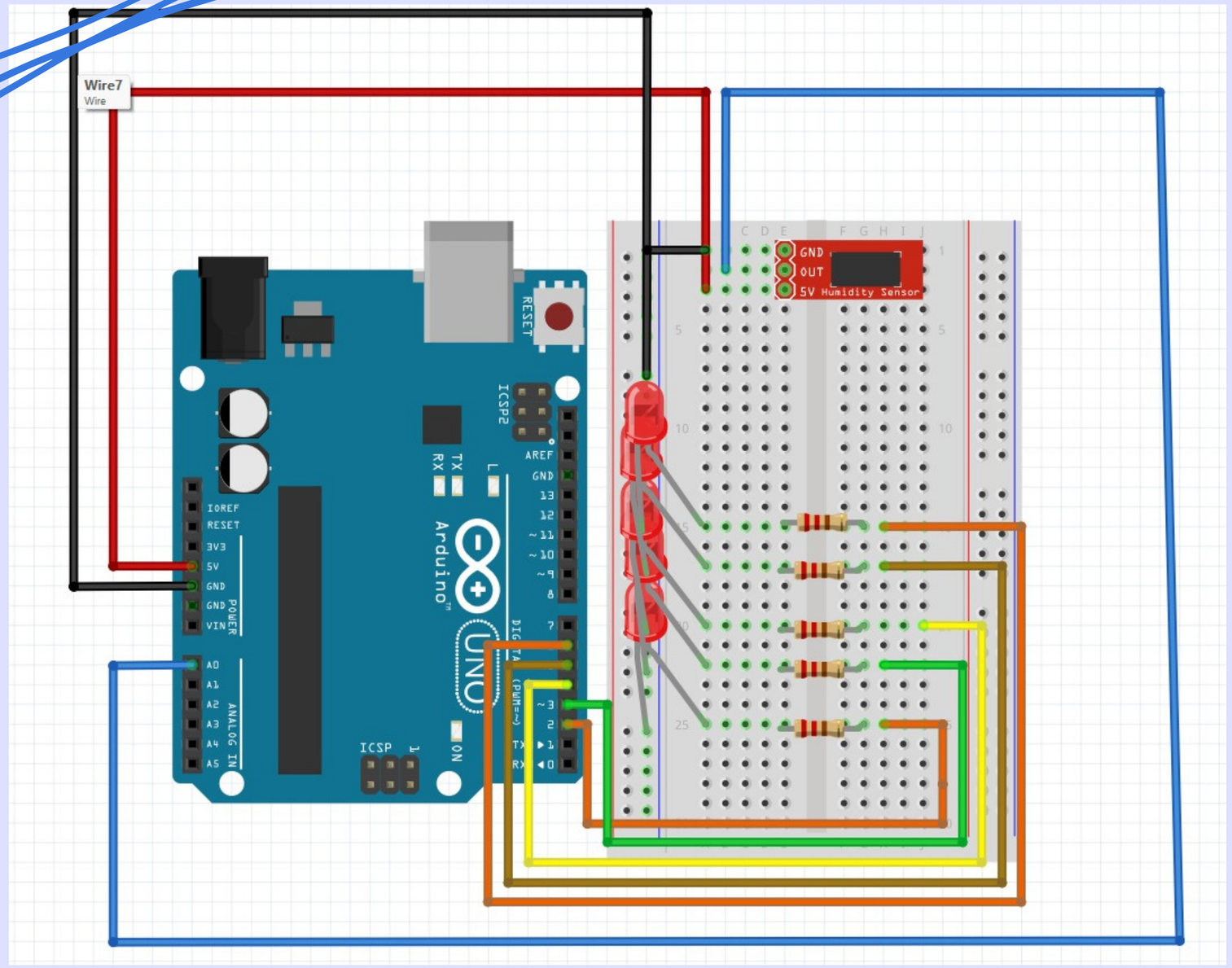



```
int cap1=A0;
int cap2=A1;
float value1;
float value2;
float voltaggio1;
float voltaggio2;
float diff;
const int analogPin = A0; // the pin that the pote
const int ledCount = 6; // the number of LEDs in t
int ledPins[] = {2, 3, 4, 5};

void setup() {
  // put your setup code here, to run once:
  pinMode(cap1,INPUT);
  pinMode(cap2,INPUT);
  Serial.begin(9600);
}

void loop() {
  //  your main code here, to run repeatedly:
  value1=analogRead(cap1);
  value2=analogRead(cap2);
  voltaggio1=value1*5/1023;
  voltaggio2=value2*5/1023;
  diff=voltaggio1-voltaggio2;
  Serial.print(voltaggio1);
  Serial.print(" , ");
  Serial.print(voltaggio2);
  Serial.print(" , ");
  Serial.println(diff);
  delay(500);
}
```

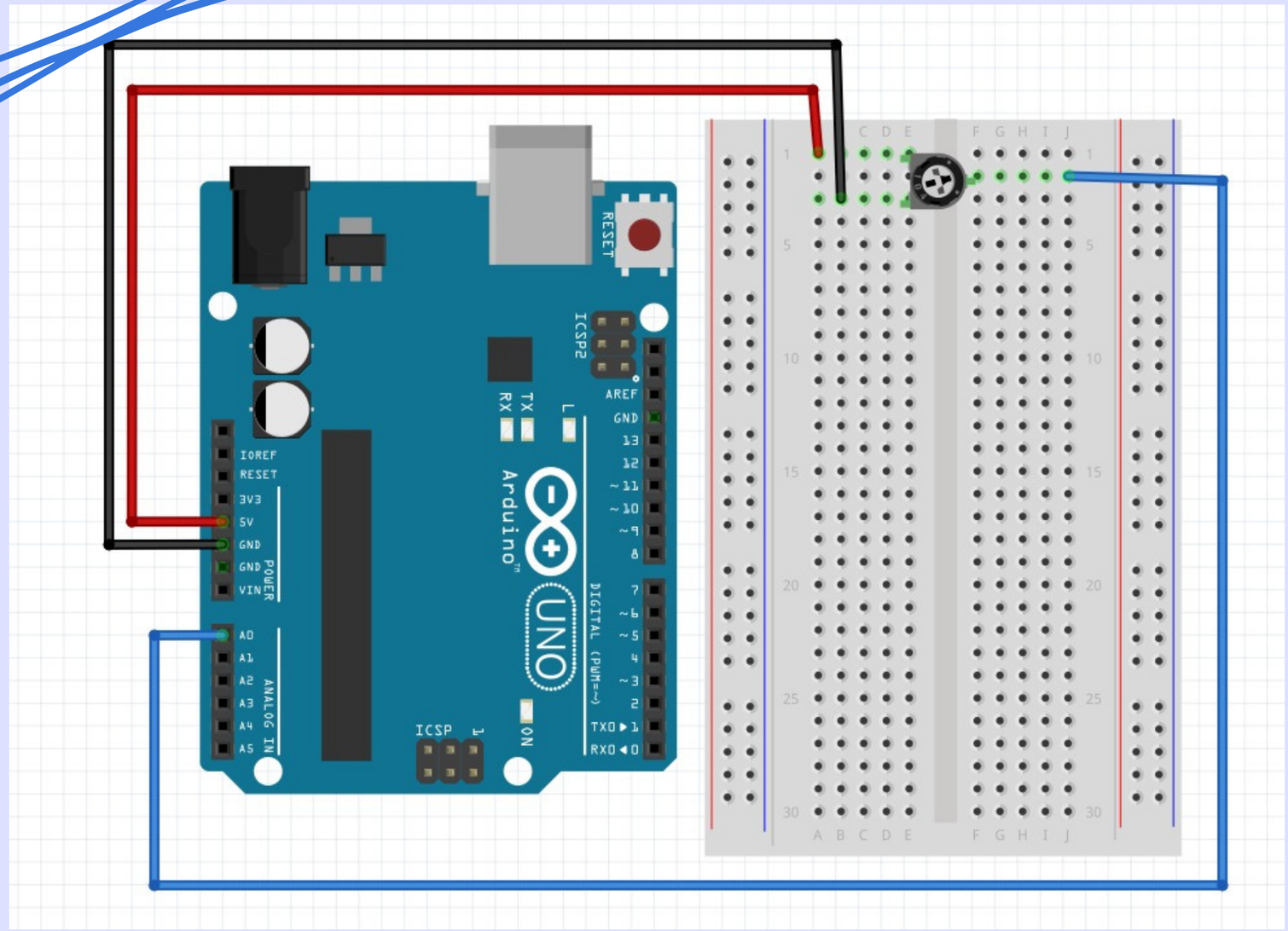
Striscia di LED azionataa con il sensore di humidità




```ino
int cap1=A0;
int cap2=A1;
float value1;
float value2;
float voltaggio1;
float voltaggio2;
float diff;
const int analogPin = A0; // the pin tha
const int ledCount = 6; // the number of
int ledPins[] = {2, 3, 4, 5};

void setup() {
  // put your setup code here, to run on
  pinMode(cap1,INPUT);
  pinMode(cap2,INPUT);
  Serial.begin(9600);
}

void loop() {
  //  your main code here, to run repeat
  value1=analogRead(cap1);
  value2=analogRead(cap2);
  voltaggio1=value1*5/1023;
  voltaggio2=value2*5/1023;
  diff=voltaggio1-voltaggio2;
  Serial.print(voltaggio1);
  Serial.print(" , ");
  Serial.print(voltaggio2);
  Serial.print(" , ");
  Serial.println(diff);
  delay(500);
}
```




```
int led = 3;        // the PWM pin the
                    LED is attached to
int brightness = 0;
int fadeAmount = 5;

void setup() {
pinMode(led, OUTPUT);
Serial.begin(9600);
}

void loop() {
analogWrite(led, brightness);
value=analogRead(led);
Serial.println(value);
brightness = brightness +
fadeAmount;

if (brightness <= 0 || brightness >=
255) {
fadeAmount = -fadeAmount;
}
```