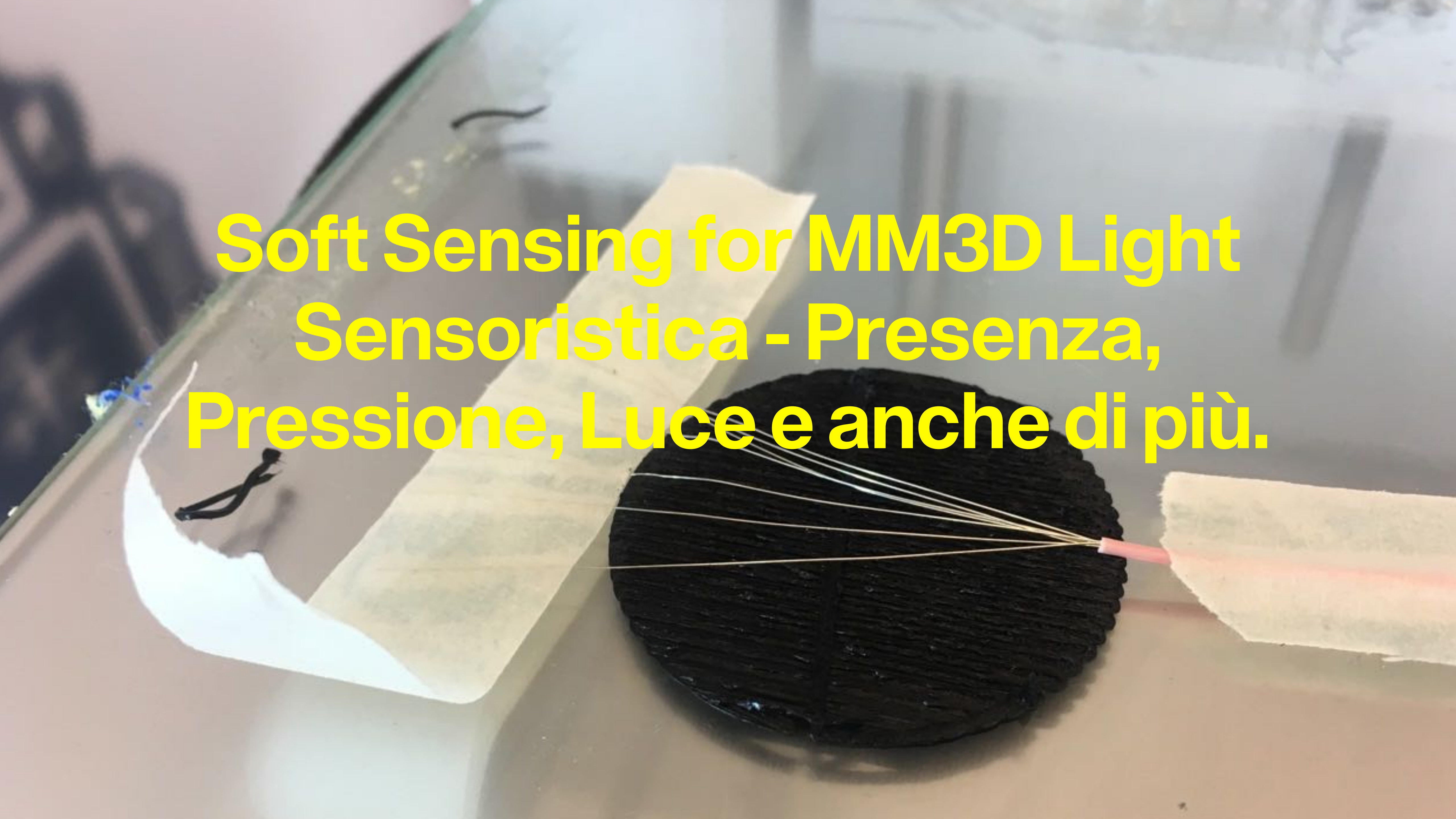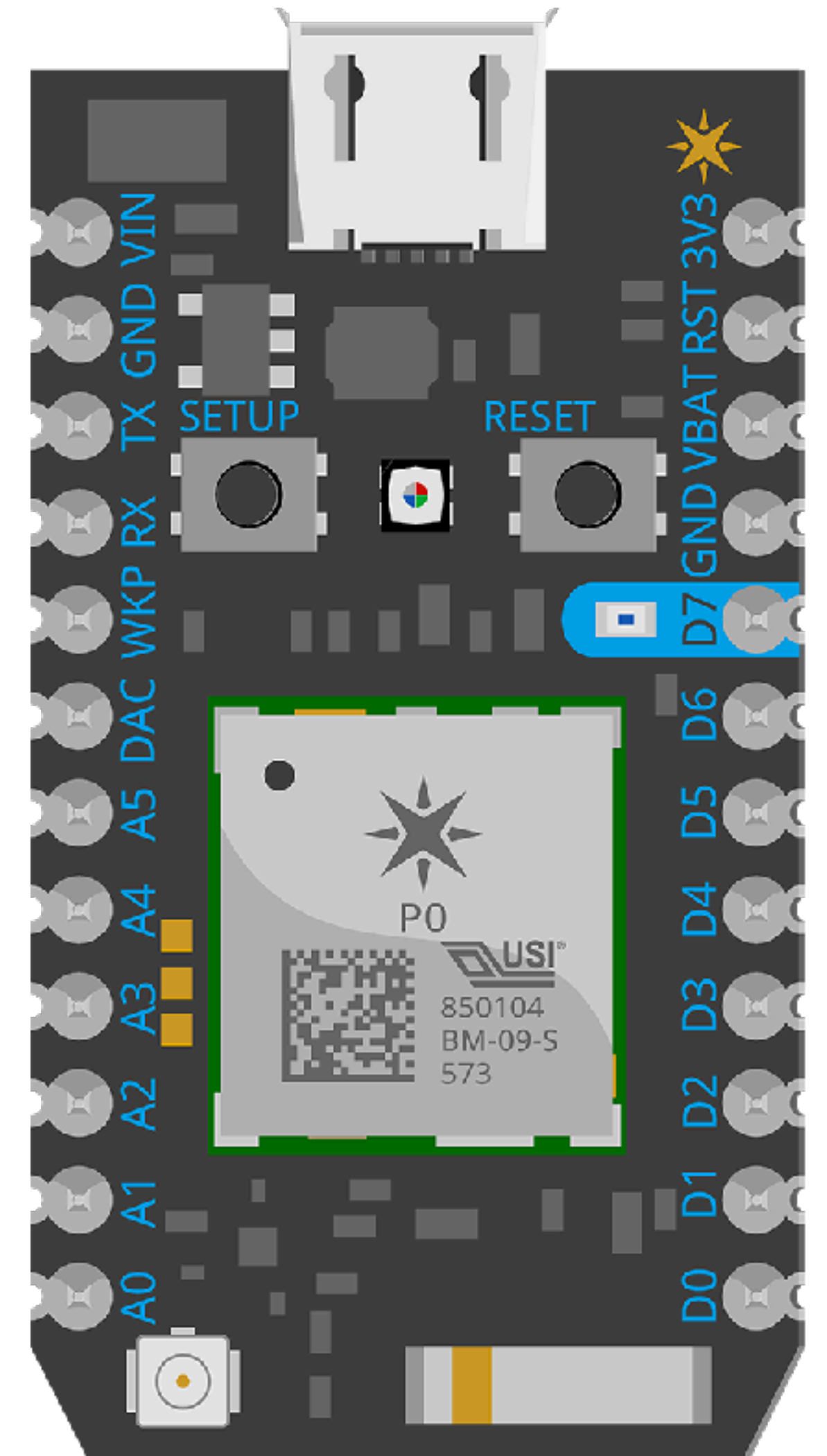# Soft Sensing for MM3D Light

Sensoristica - Presenza, Pressione, Luce e anche di più.
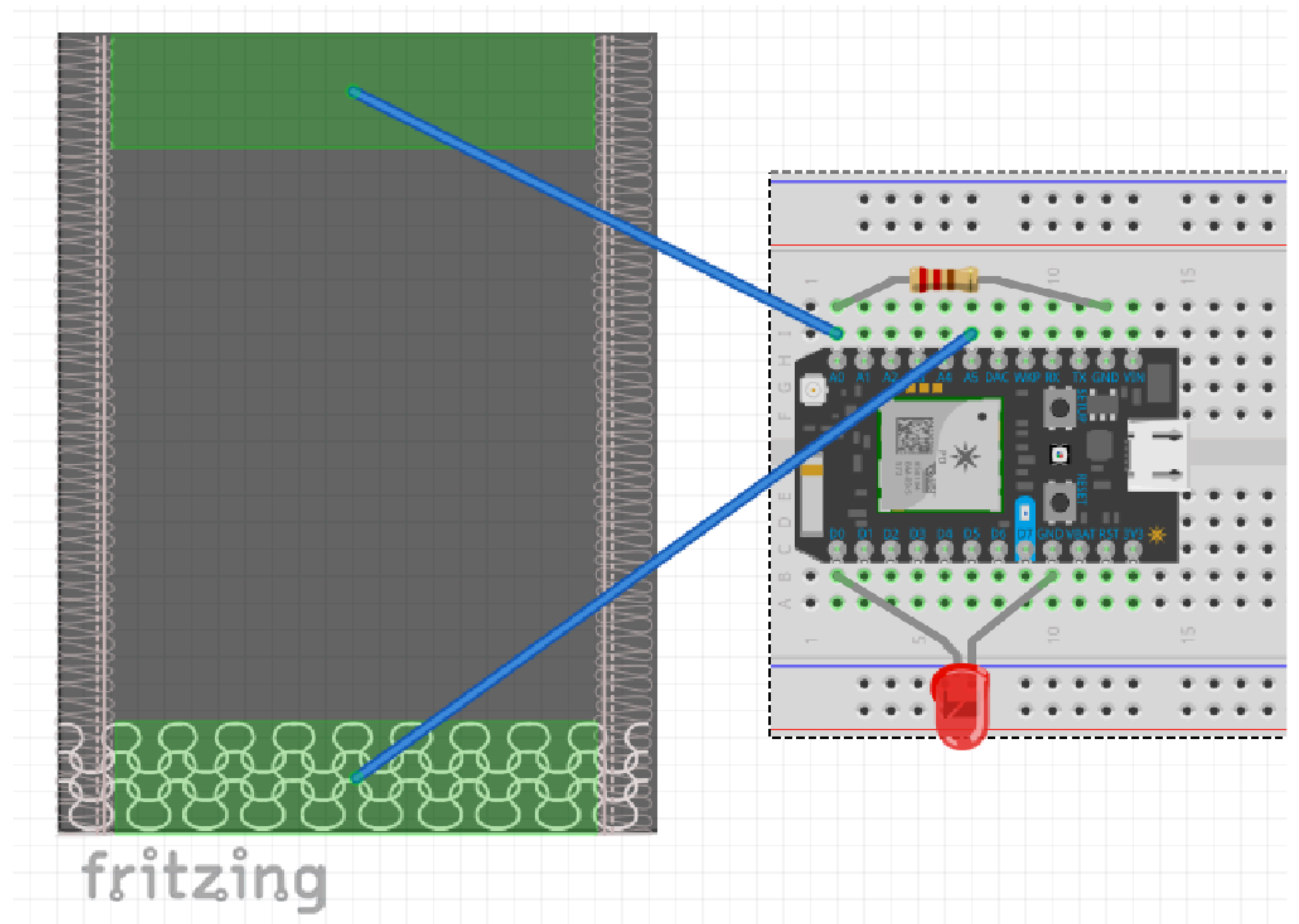
Particle Photon

- build.particle.io

- Functional Variable

```
void loop() {

    // check to see what the value of the photores
    analogvalue = analogRead(photoresistor);
if ( analogvalue > 1000 ){
        digitalWrite(led,HIGH);
}
else {

        digitalWrite(led,LOW);

}
}
```
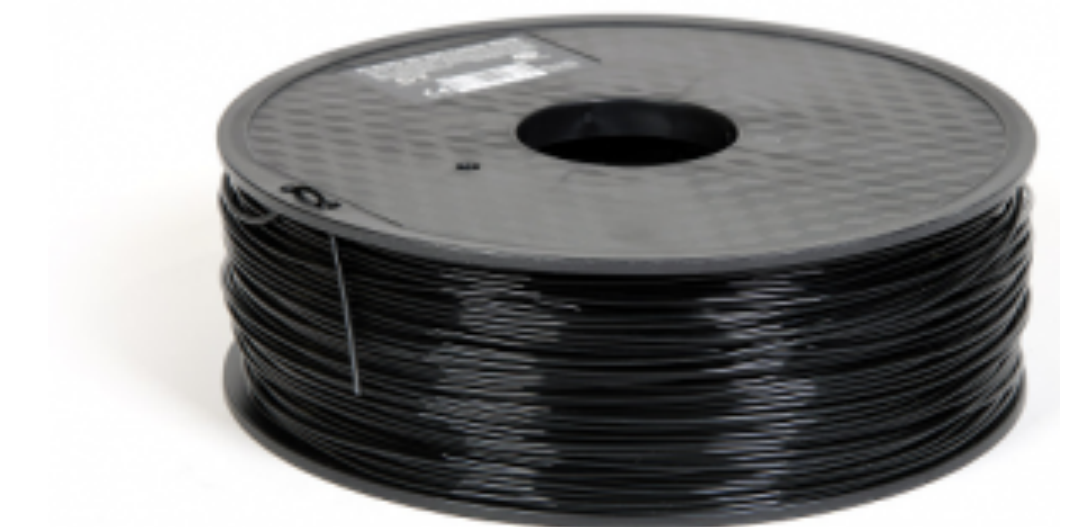
Connections :: Collegamenti

- LED D0 GND

- 10k Resistenza GND A0

- Printed Sensor A0 A5

fritzing

PI-ETPU 95-250 Carbon Black

- http://rubber3dprinting.com/pi-etpu-95-250-carbon-black/
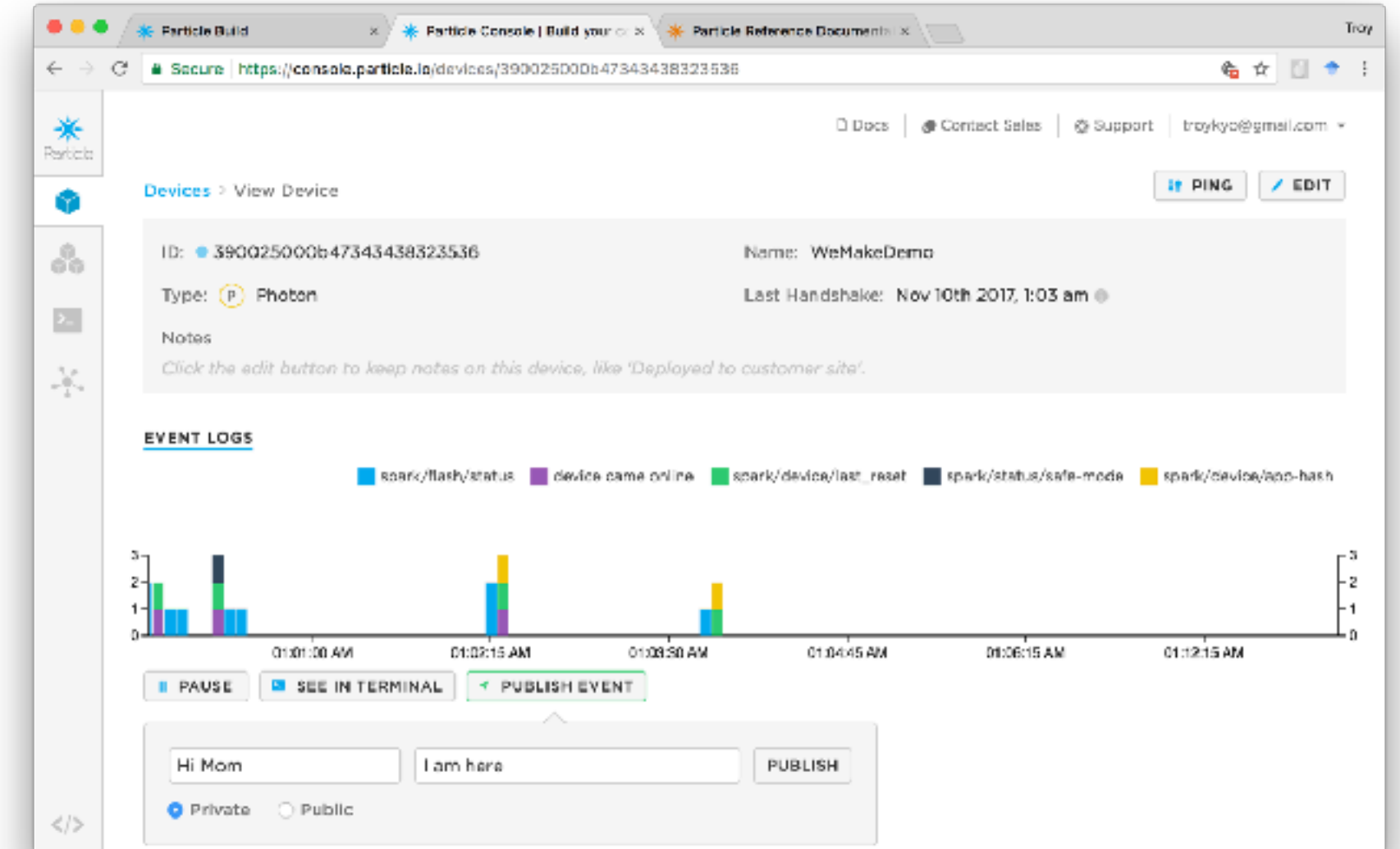
- Resistance = 10cm filament s 30 to 750Ωcm fra produzione

- Sporca la machina

Carattere del sensore
Characterising the sensor

- Dove' il Serial Monitor?

- https://console.particle.io/devices

FUNCTIONS

f led = 1

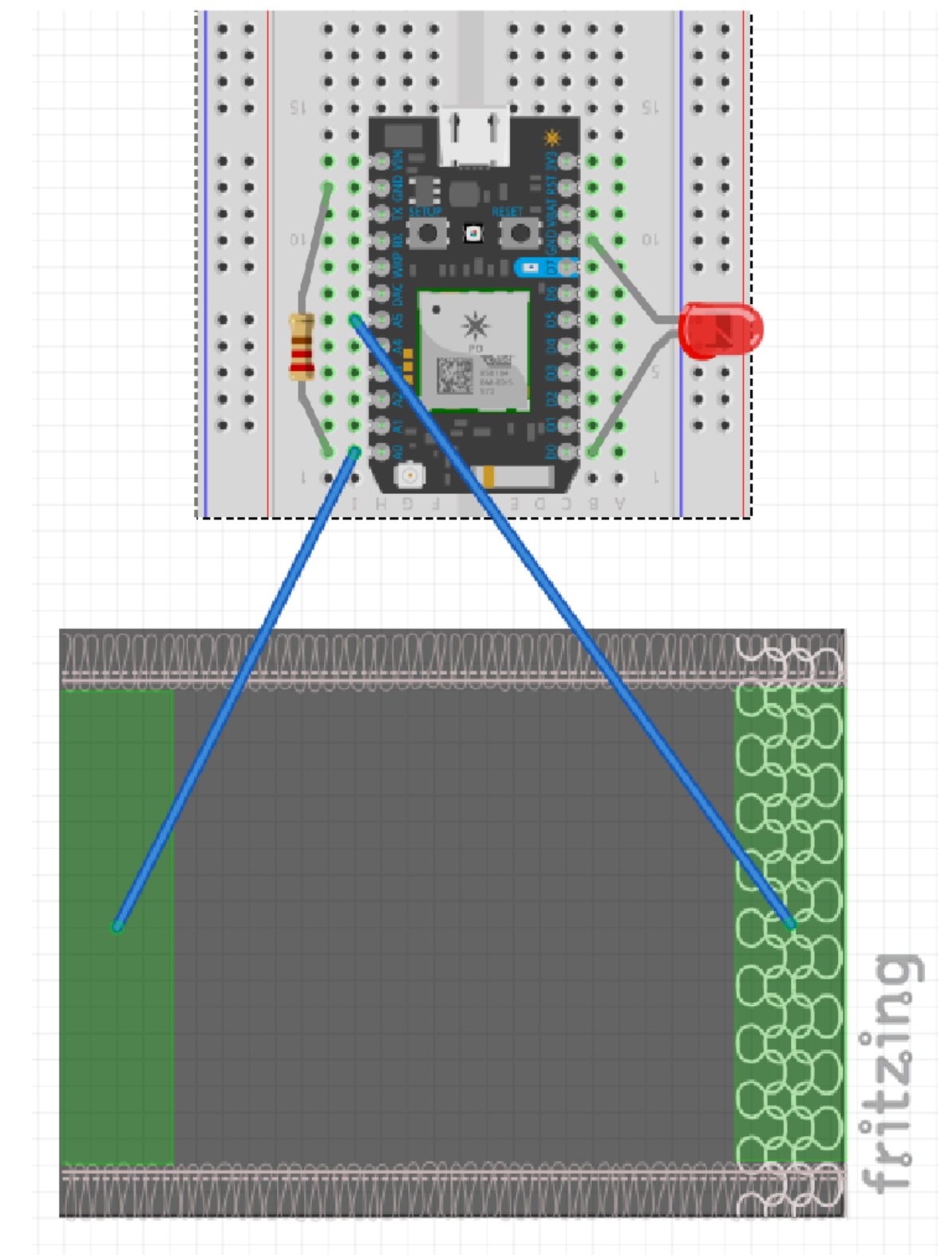on   CALL

VARIABLES

v analogvalue (int32) = 515   GET

Hello Blinky World

- https://go.particle.io/shared_apps/ 5a04ea3b53af7b126d000707
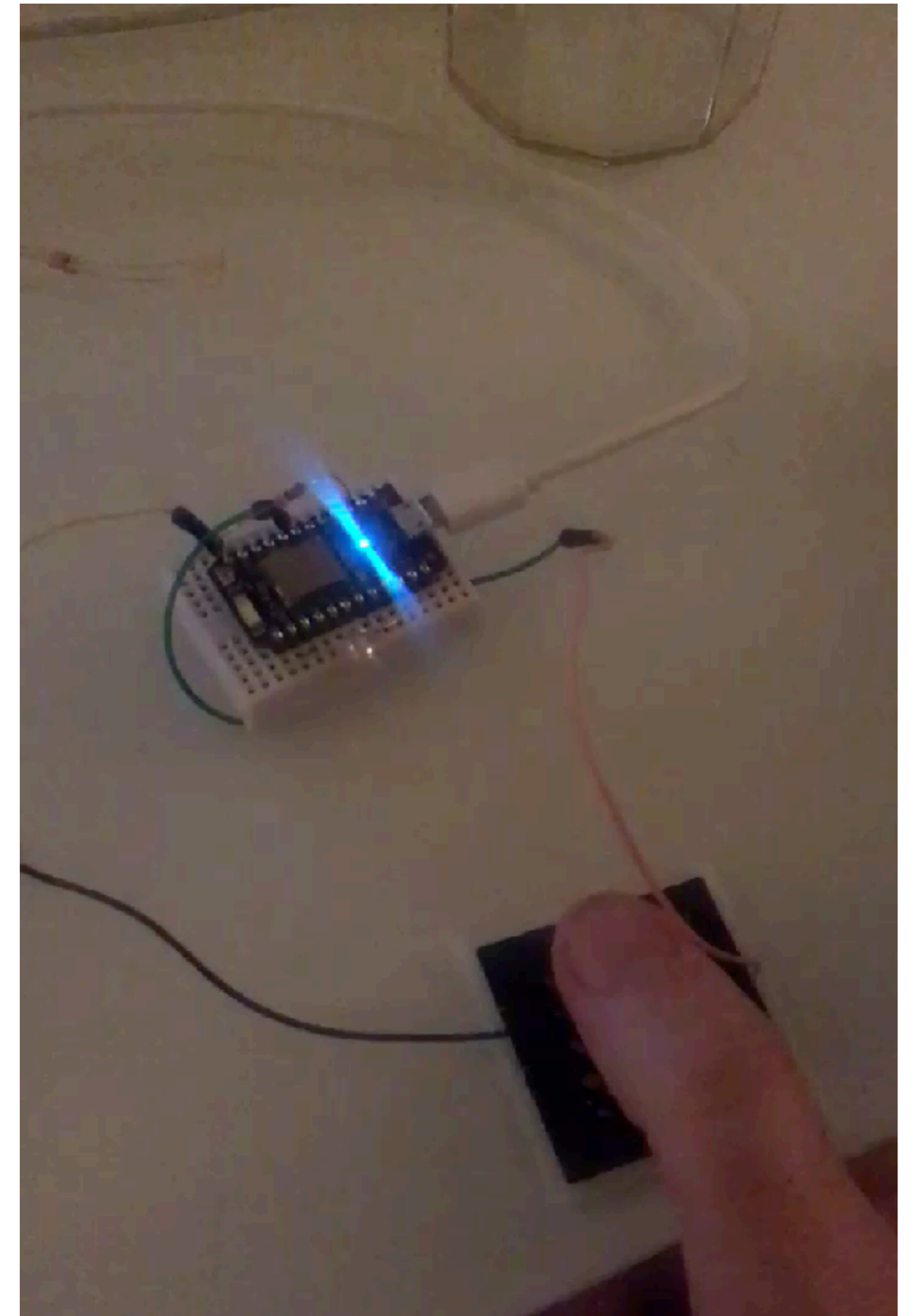


```
void loop() {

        // check to see what the value of the photores
    analogvalue = analogRead(photoresistor);
if ( analogvalue > 1000 ){
            digitalWrite(led,HIGH);
}
else {
            digitalWrite(led,LOW);
}
}
```

Fade e Comandi da Internet

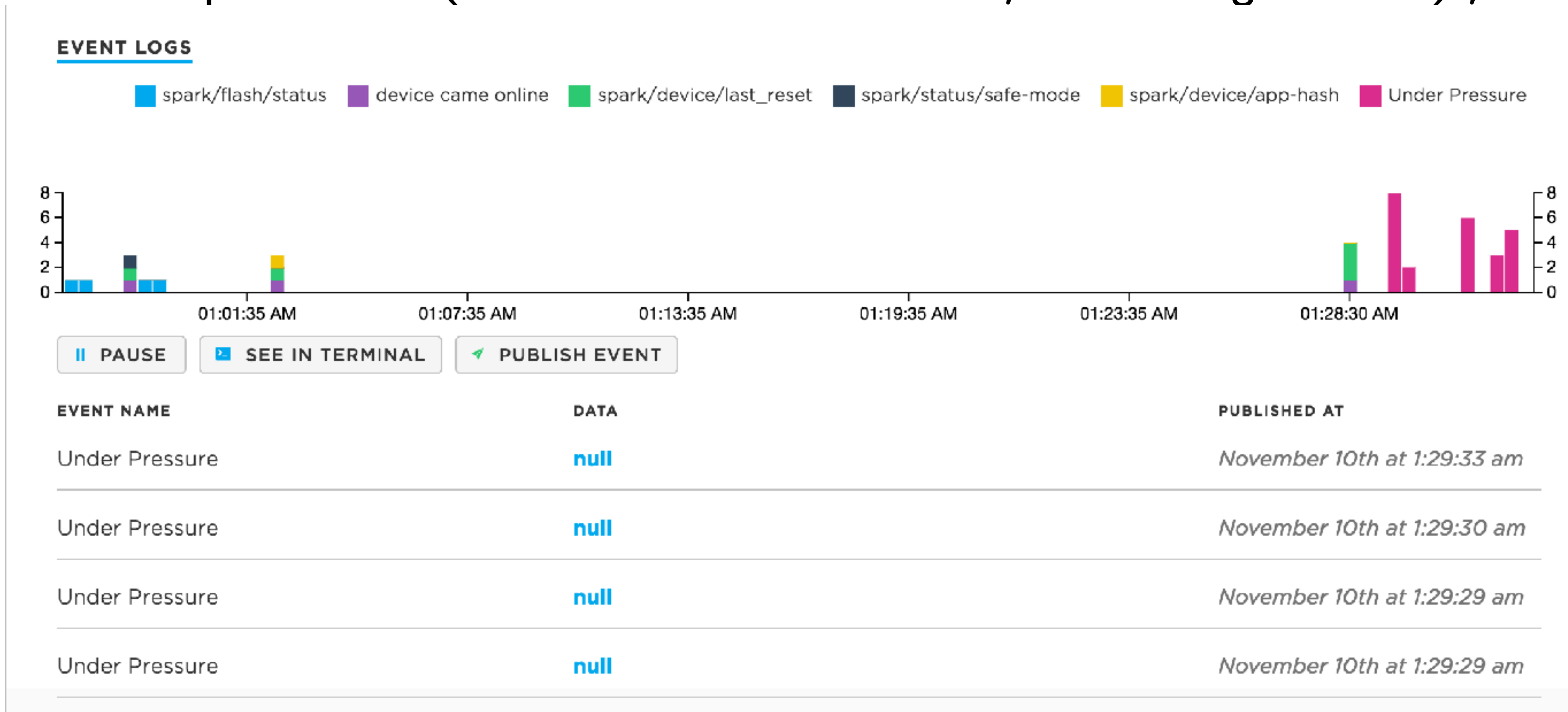- https://go.particle.io/shared_apps/5a04ecda53af7b610e000821

```
void loop() {

    // check to see what the value of the photoresistor is and store it
    analogvalue = analogRead(photoresistor);
    if ( analogvalue > 550 ){
        analogWrite(led,map(analogvalue, 550, 1400, 0, 255));
    }
    else {

    }
}
```

Due chiacchere

- Come possiamo fare sì che il Photon parla con la cloud

- Particle.publish("Under Pressure", analogvalue);

Obbiettivo

- Fai parlare il tuo photon con Philips Hue.

- Make your Photon talk to a Server that commands Hue

- https://khcherenack007.wixsite.com/becomlight

- http://stitchandsolder.com/Italiano.html