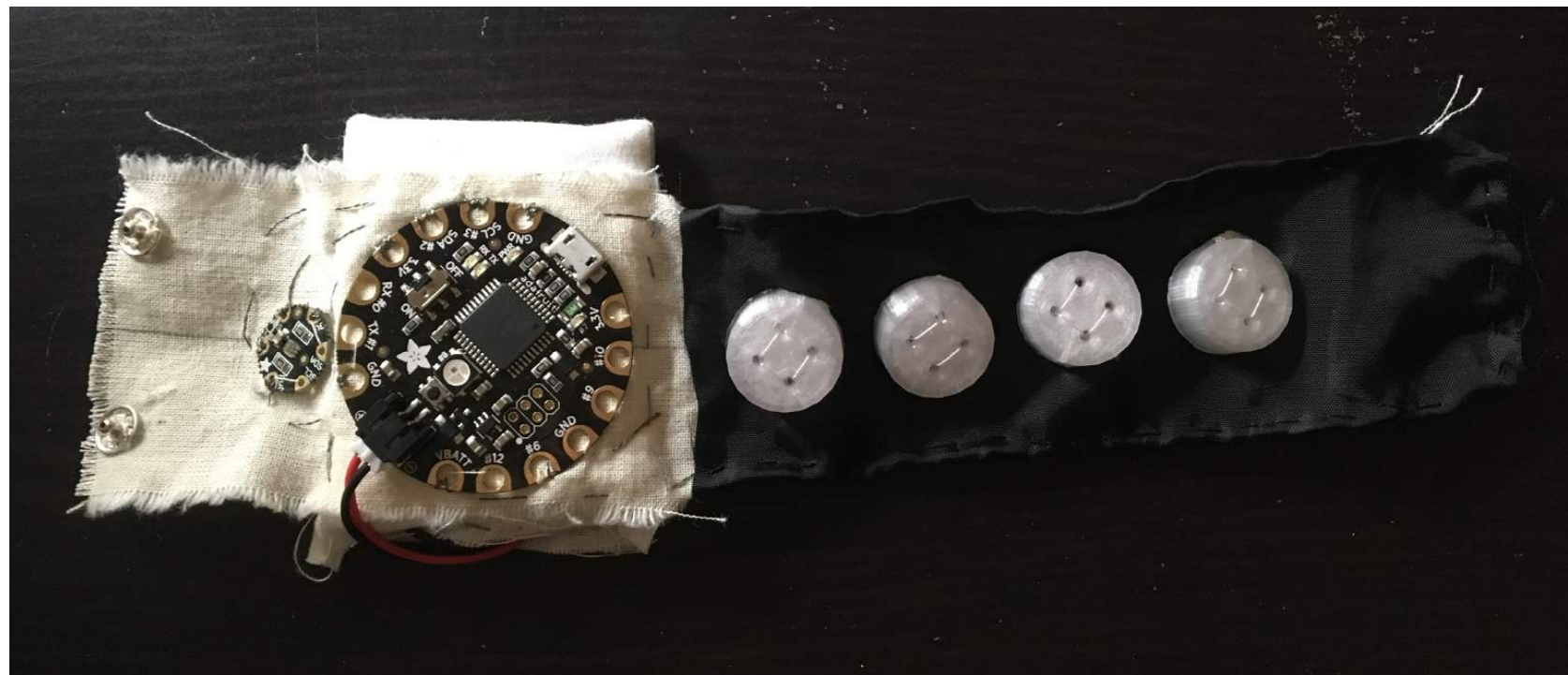


Dr. Strange LED Costume

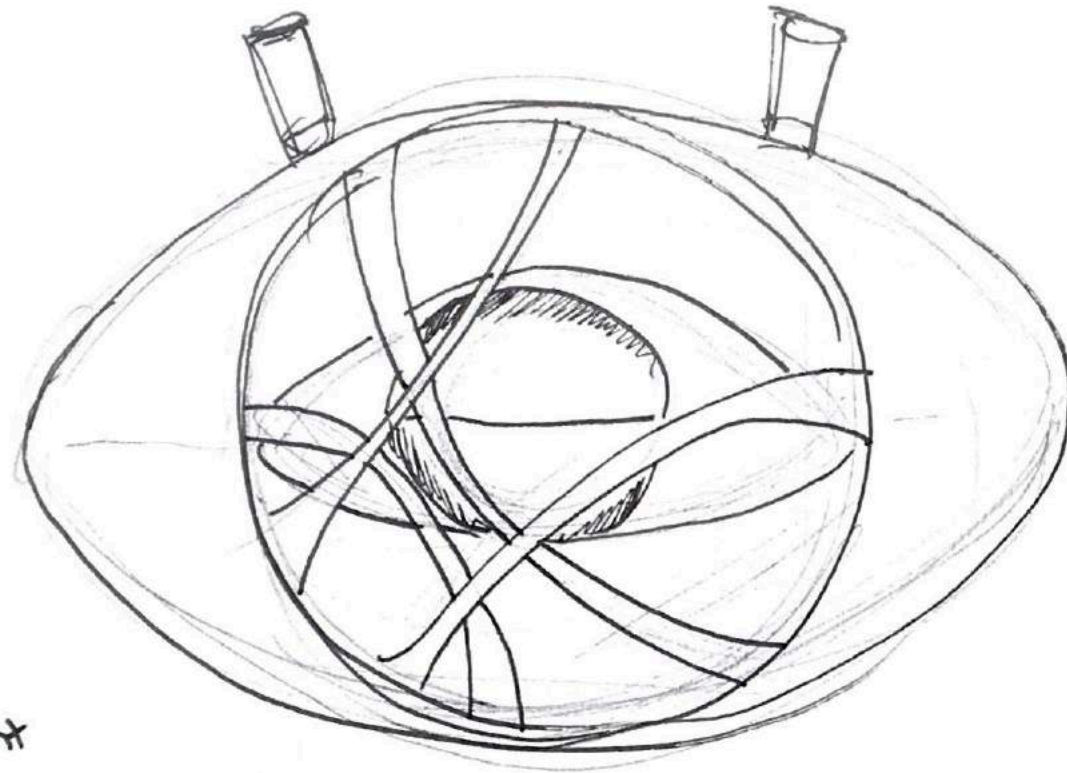
By Julie Xu



Screenshots from the original movie

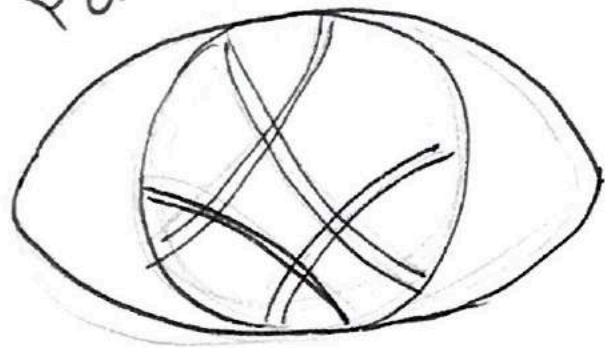


Part I: Eye of Agamotto

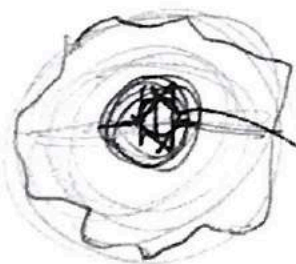
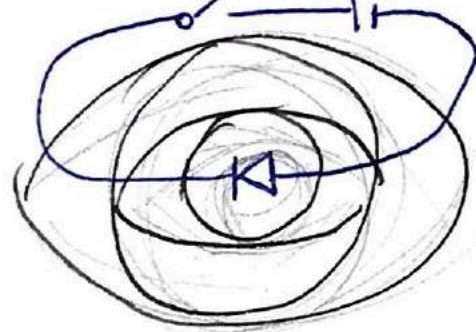


3D-Print
Parts

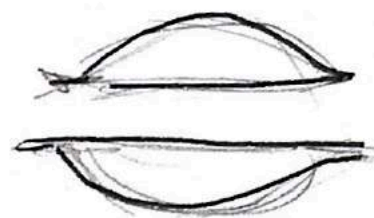
top face



rear case



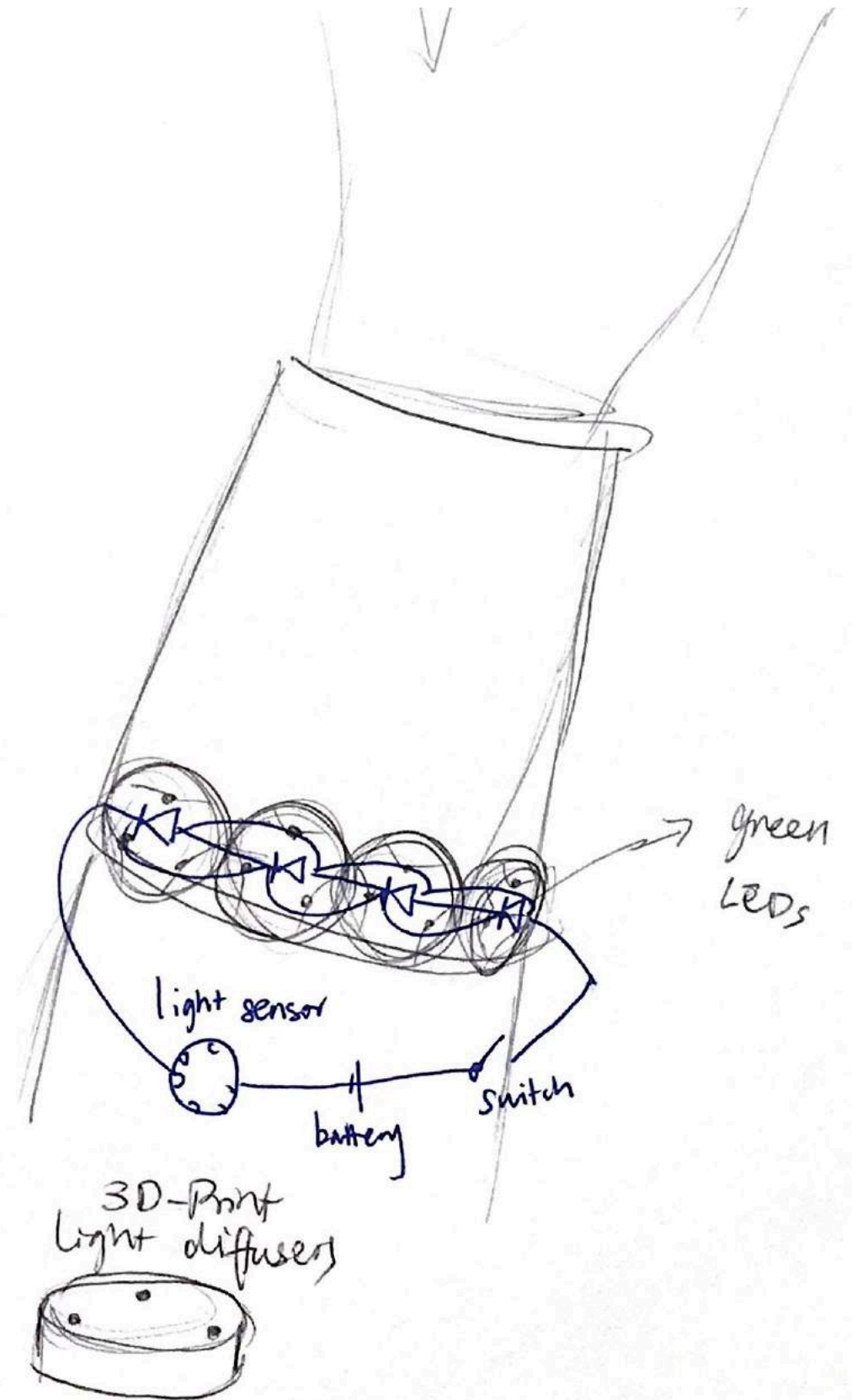
inner eye



top
eye lids
bottom

green LED

Part II: wristband



green
LEDs

light sensor

battery

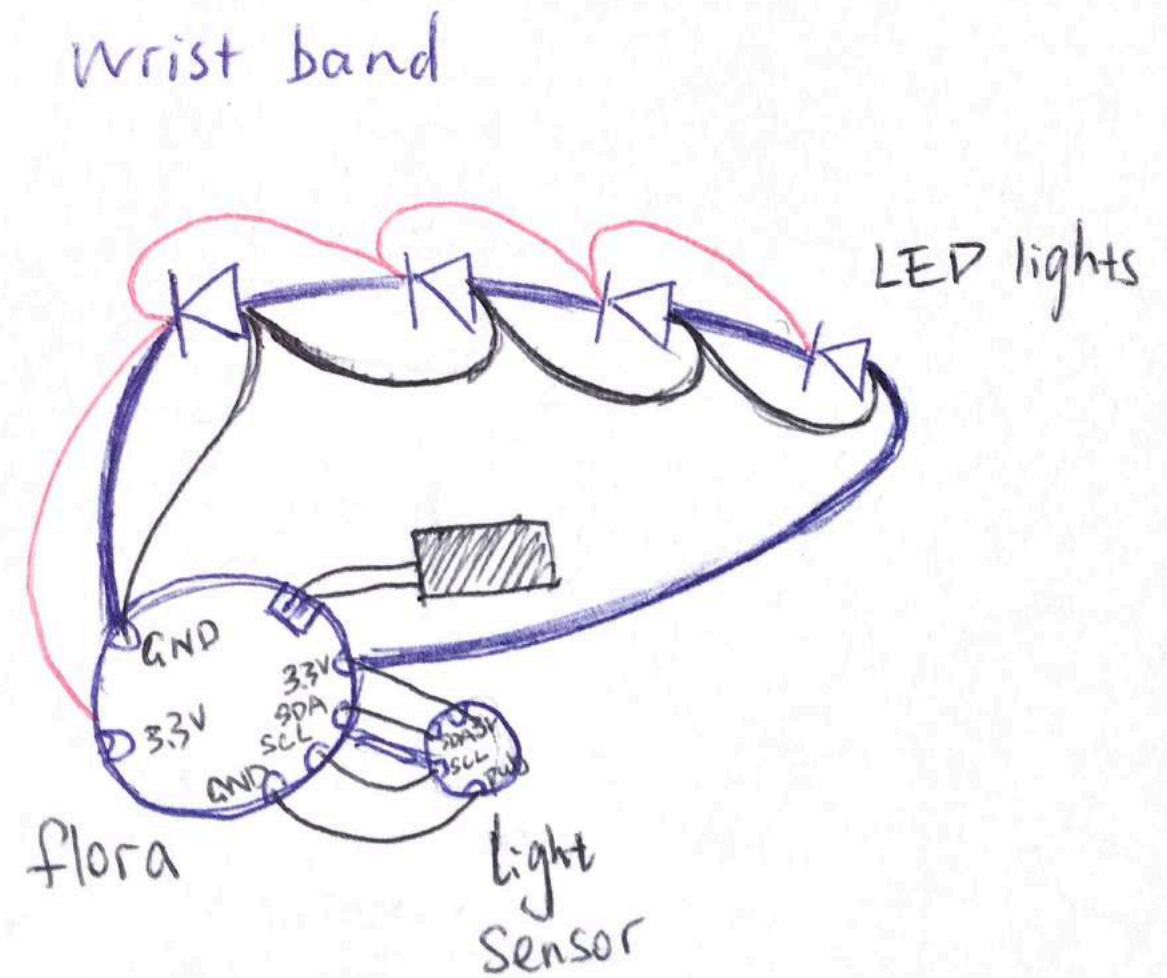
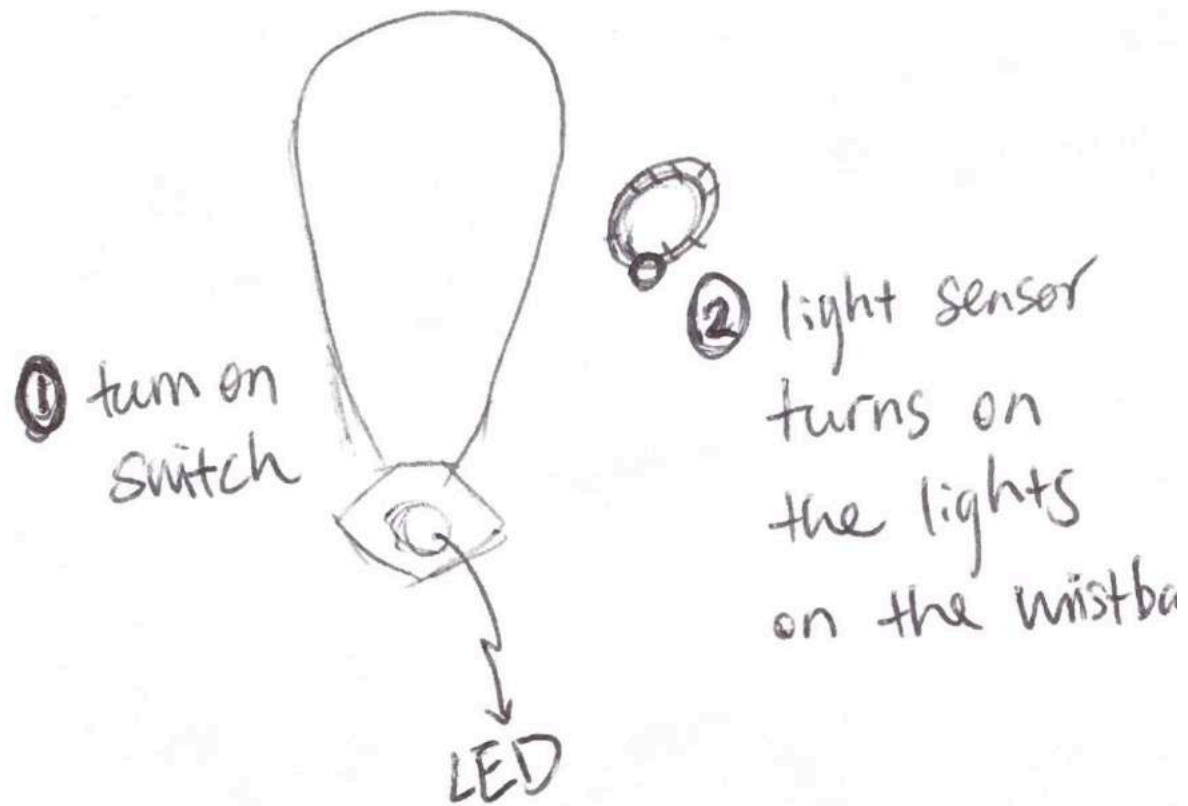
switch

3D-Print
light diffuser

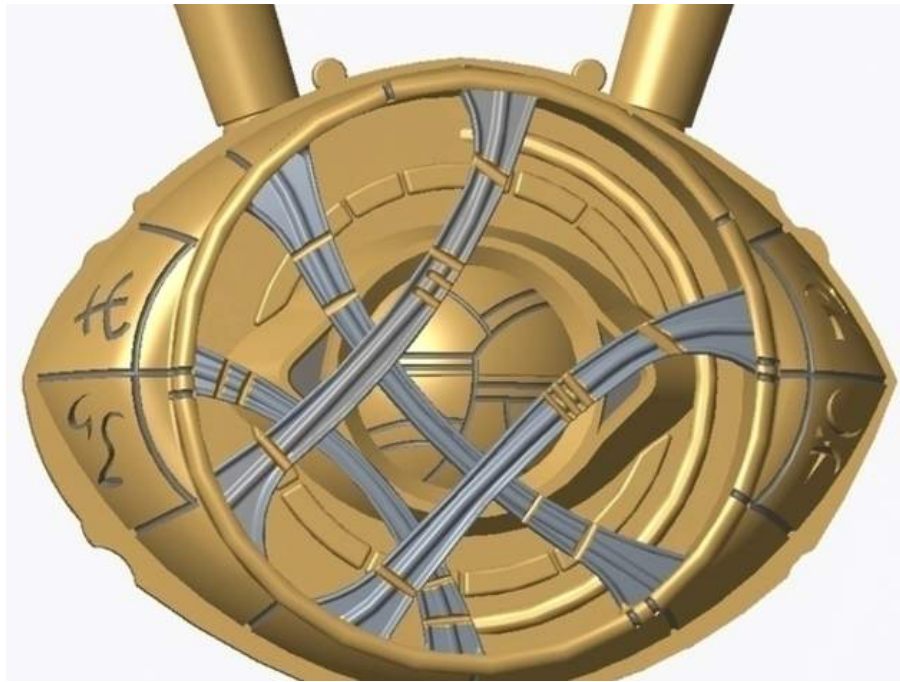
Interaction

Wristband circuit

Interaction



The making of the Eye of Agamotto



Finishing details

Leather cord

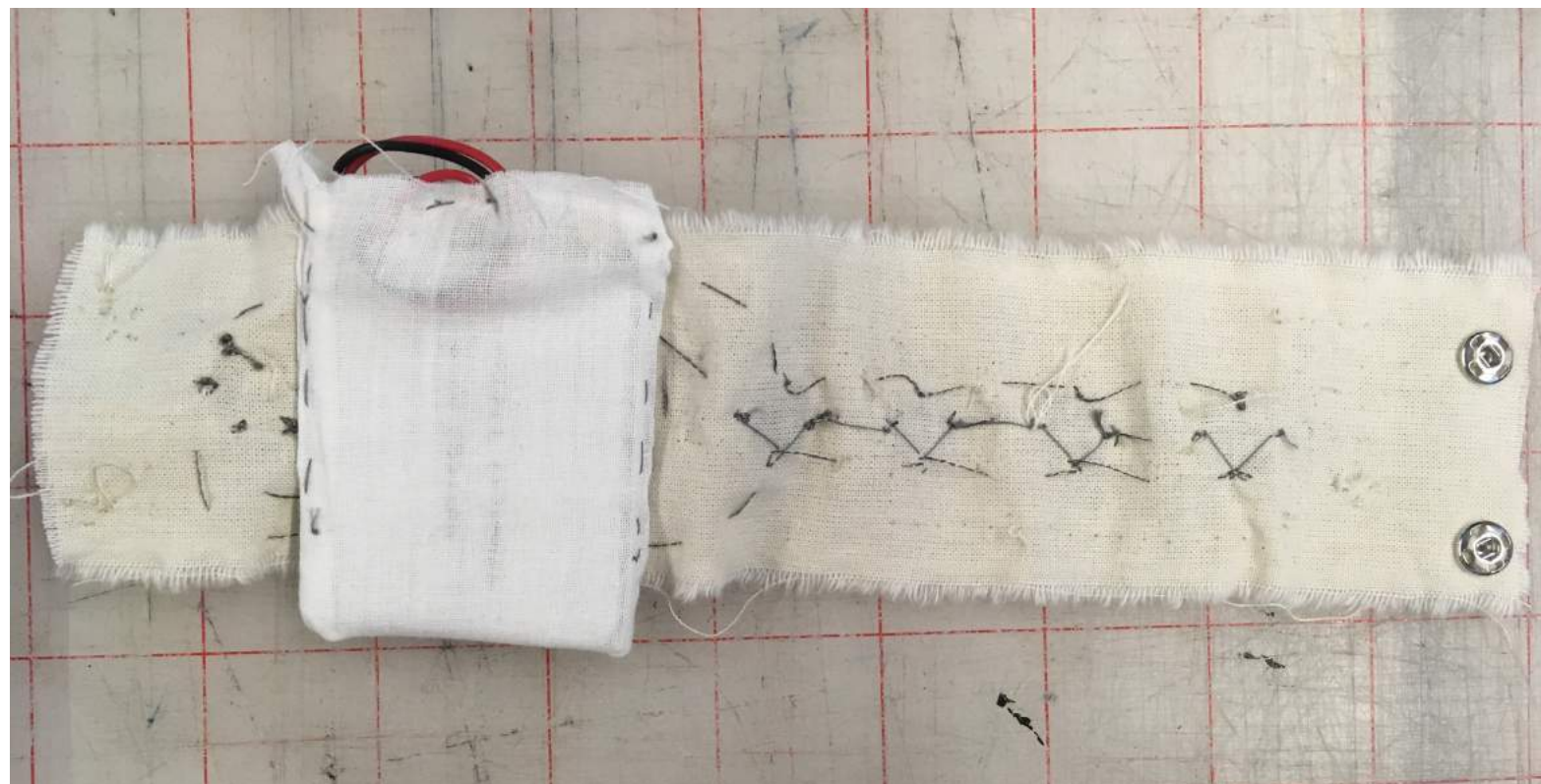
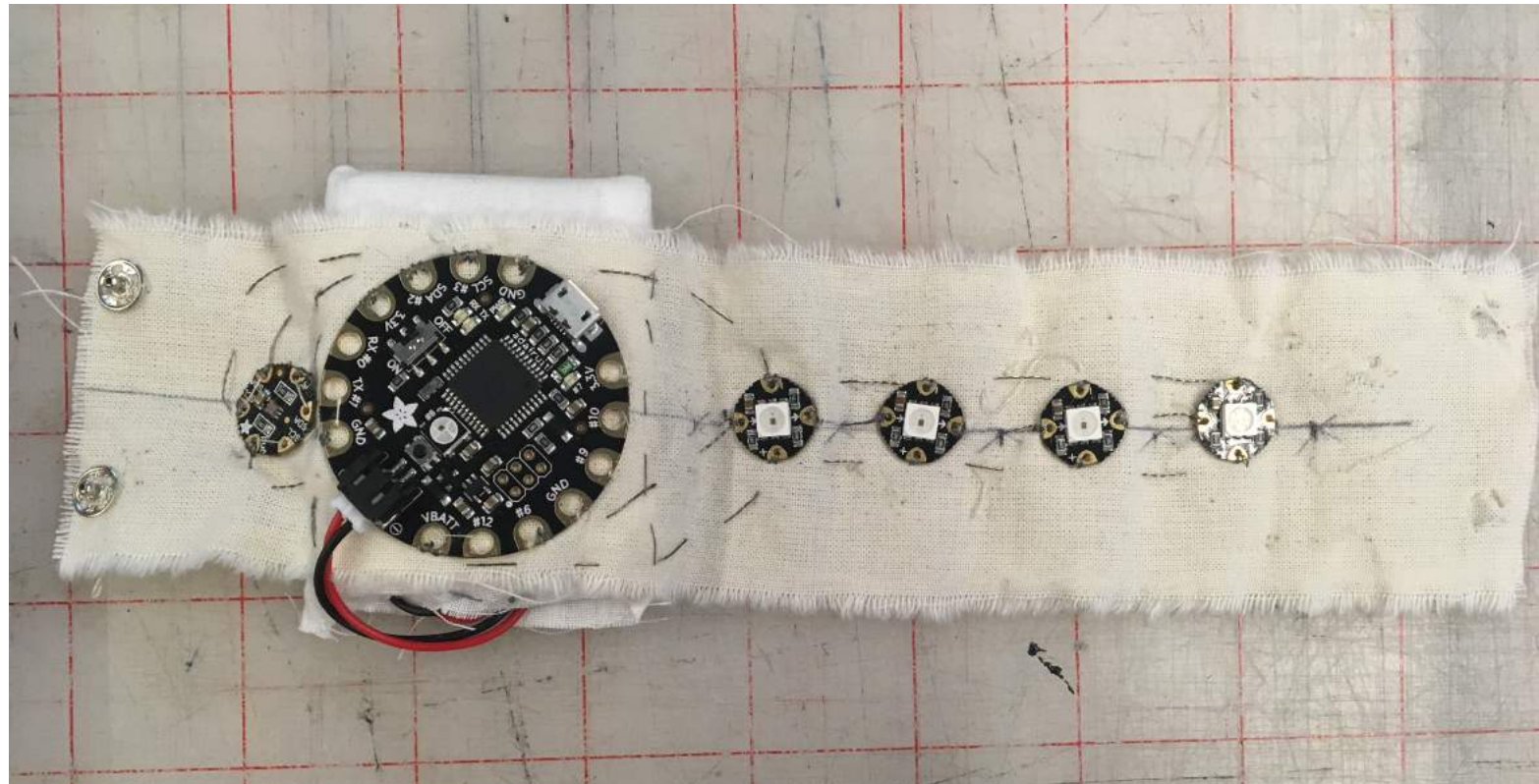
3D-printed parts

Green LED light
With a diffuser

Battery in the
back



The making of the wristband

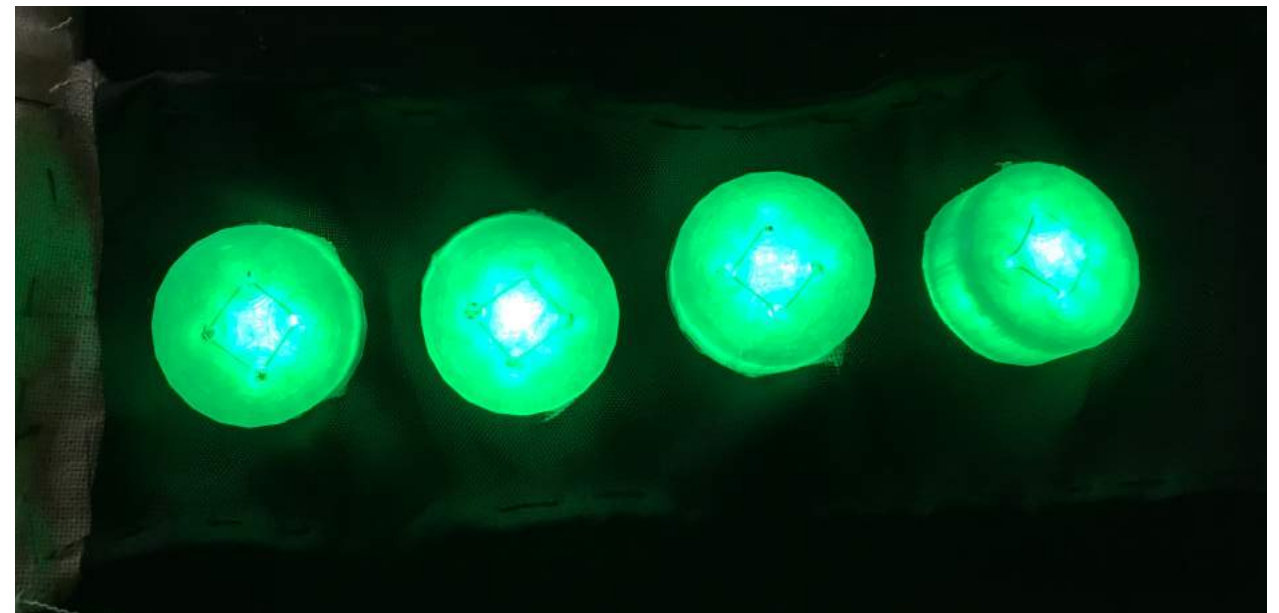
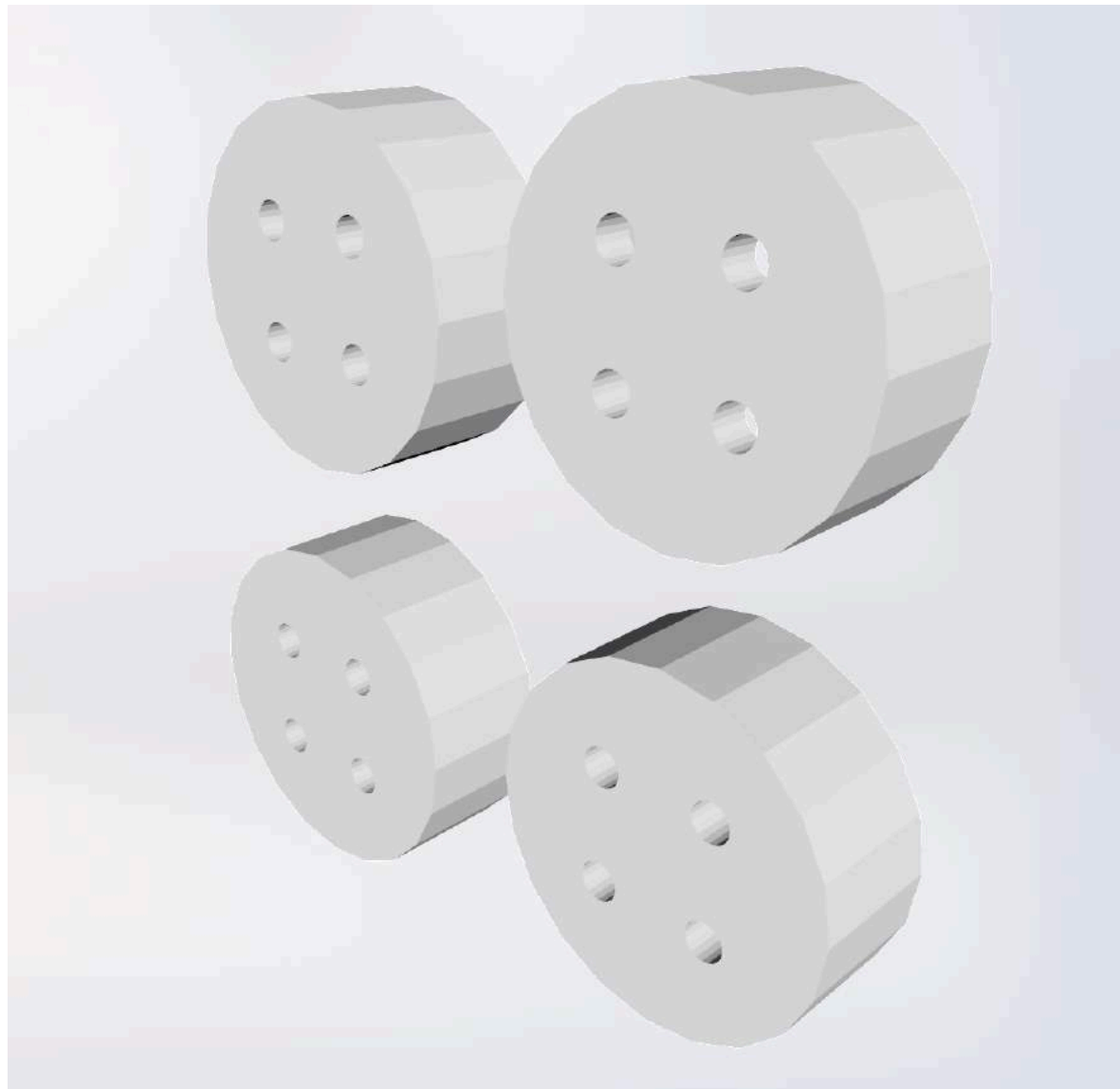


Coding for the wristband NeoPixels

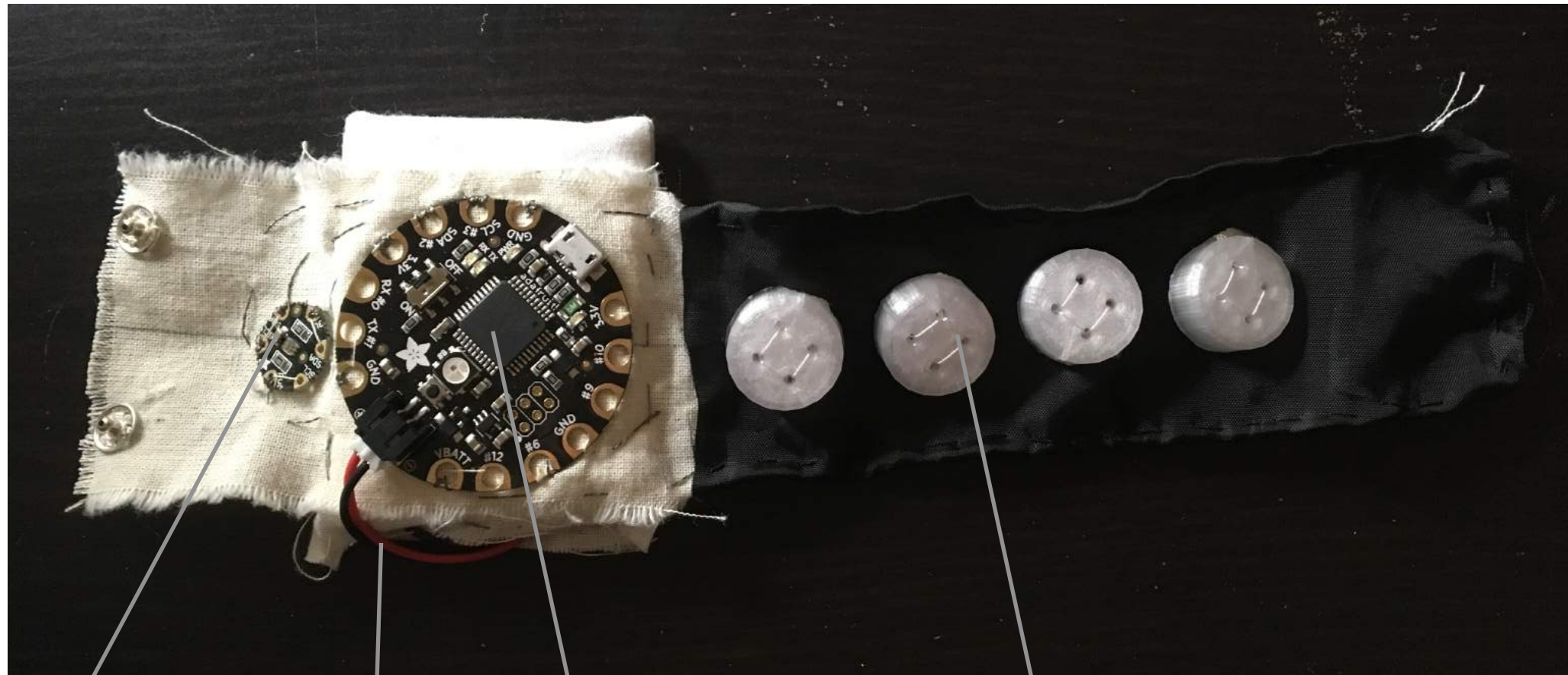
sensor-neopixel-final

```
/* Display the results (light is measured in lux) */
if (event.light < 8.00)
{
    Serial.print(event.light); Serial.println(" lux");
    for (int i=0; i<4; i++)
    {
        strip.setPixelColor(i,0,150,0);
    }
    strip.show();
    delay(600);
}
else
{
    /* If event.light = 0 lux the sensor is probably saturated
       and no reliable data could be generated! */
    Serial.println("Sensor overload");
    Serial.print(event.light); Serial.println(" lux");
    for (int i=0; i<4; i++)
    {
        strip.setPixelColor(i,0,0,0);
    }
    strip.show();
    delay(100);
}
delay(250);
```


Light diffusers for the wristband



Finishing details



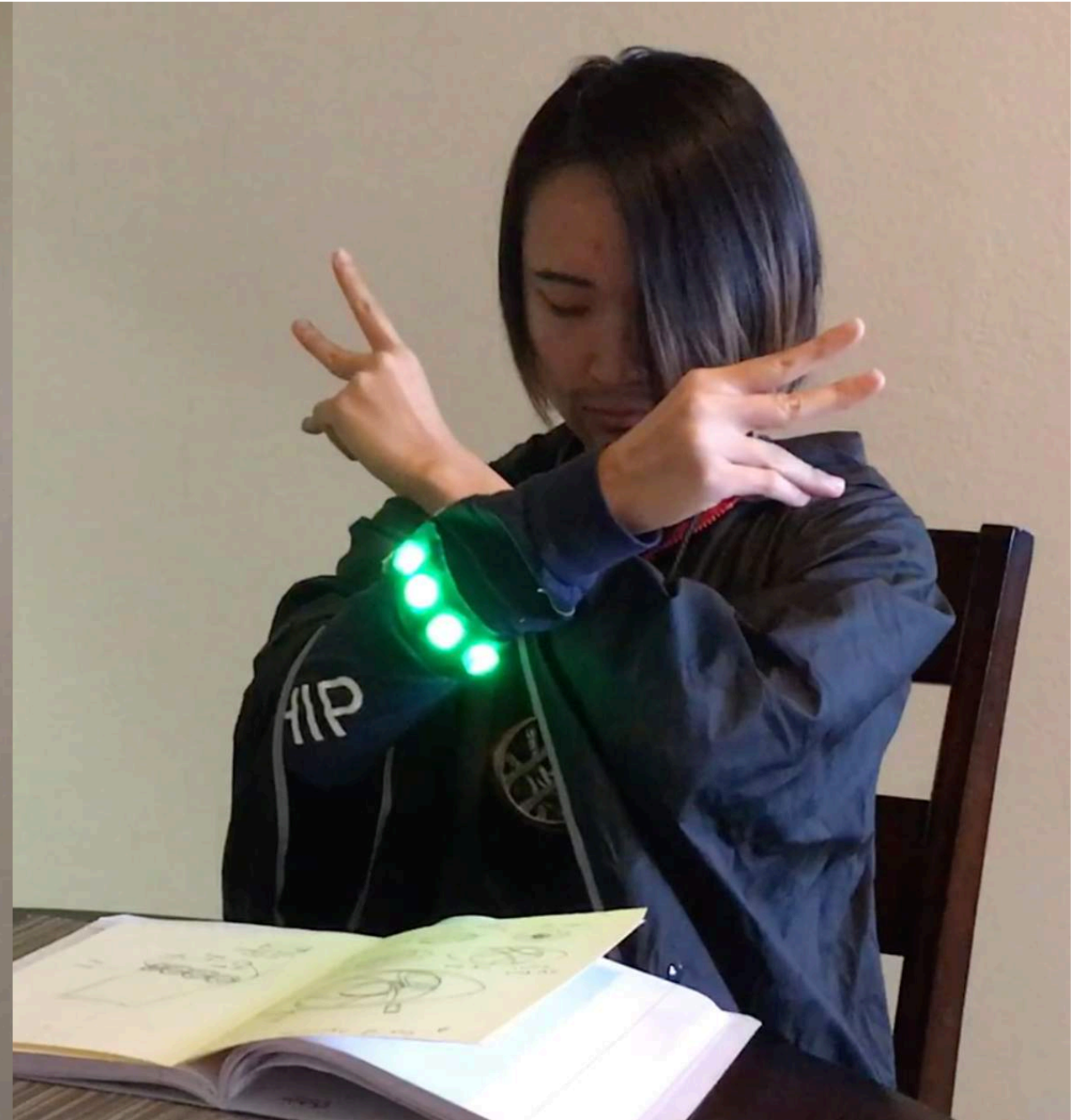
Light sensor

Battery

Flora

NeoPixels & light diffusers

How to use



Materials used

- Light sensor
- Flora
- Plastic
- Conductive thread
- Batteries
- Green LED
- Paint
- Cloth
- Regular thread