

Robotics Team - Wear Tech

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Objective

Our main focus of this project is attract people's attention and close the gap between people.



Our **objective** is to create a garment inspired by the courtship and mating strategies employed in the animal kingdom.

Natural Attraction describes the theme that influences all our design decisions for this garment. Natural Attraction reinterprets methods used by animals to attract a mate or prey into visual and behavioral metaphors. Natural Attraction combines smooth subtleties with dramatic shimmer to attract interest and interaction. Elegant forms will be combined with rigid technology to create a garment that is balanced in style and form.



Pinterest.com/RobinetteKelly

Influence

Our wearable seeks inspiration from nature. Like various animals such as dogs and peacocks use their tails as an extension of themselves our wearable looks to do the same.

With the help of LEDs and fiber optics we wish to create pleasing visuals in order to attract the viewer. We want to make a surreal effect. This was inspired by the peacock who has a beautiful tail and uses it to attract peahens.



Once the viewer comes close enough the wearable wraps around them in the form of a hug. The hug is suppose to create a feeling of safety and comfort.



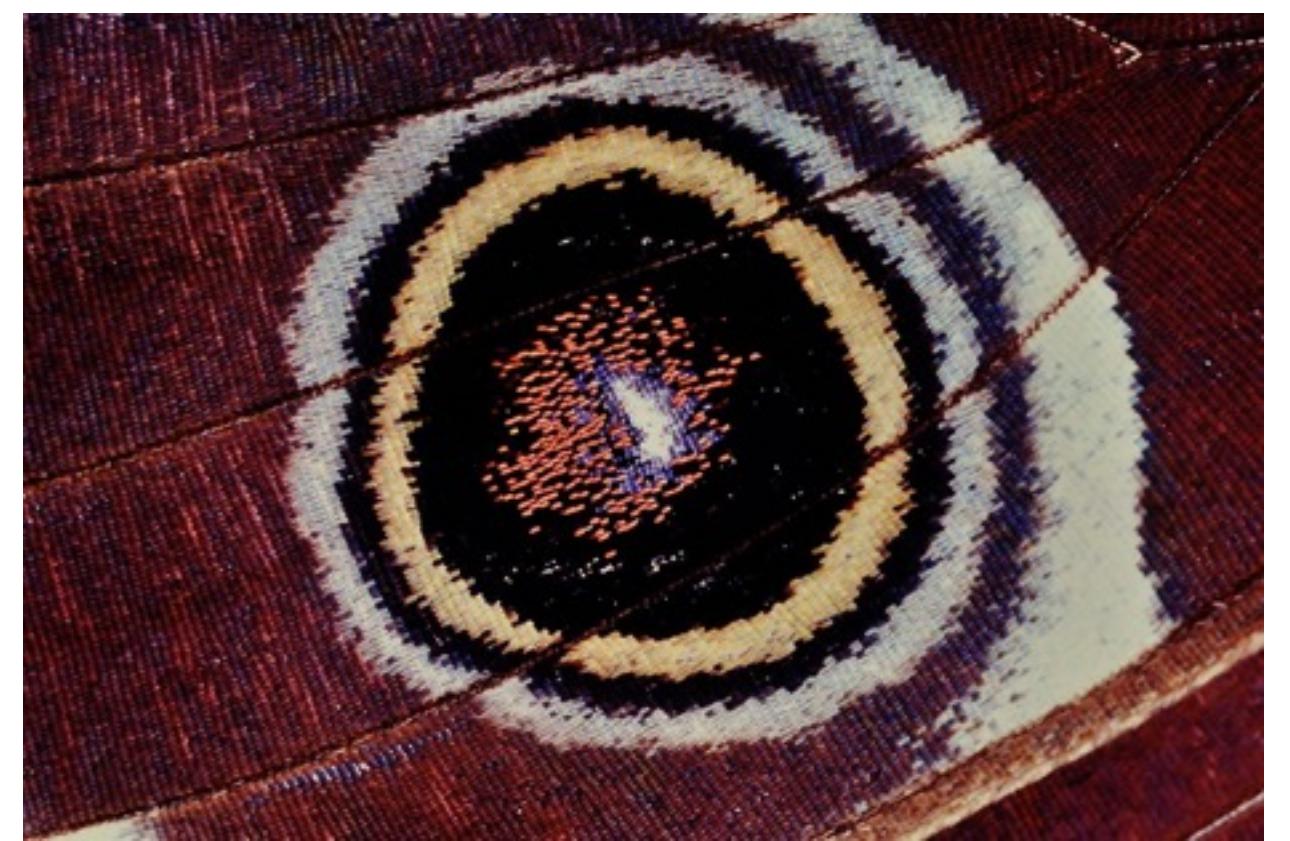
The wearable affords the user to convey their emotions through the wearable. It acts like an extension of the users by monitoring their vitals.

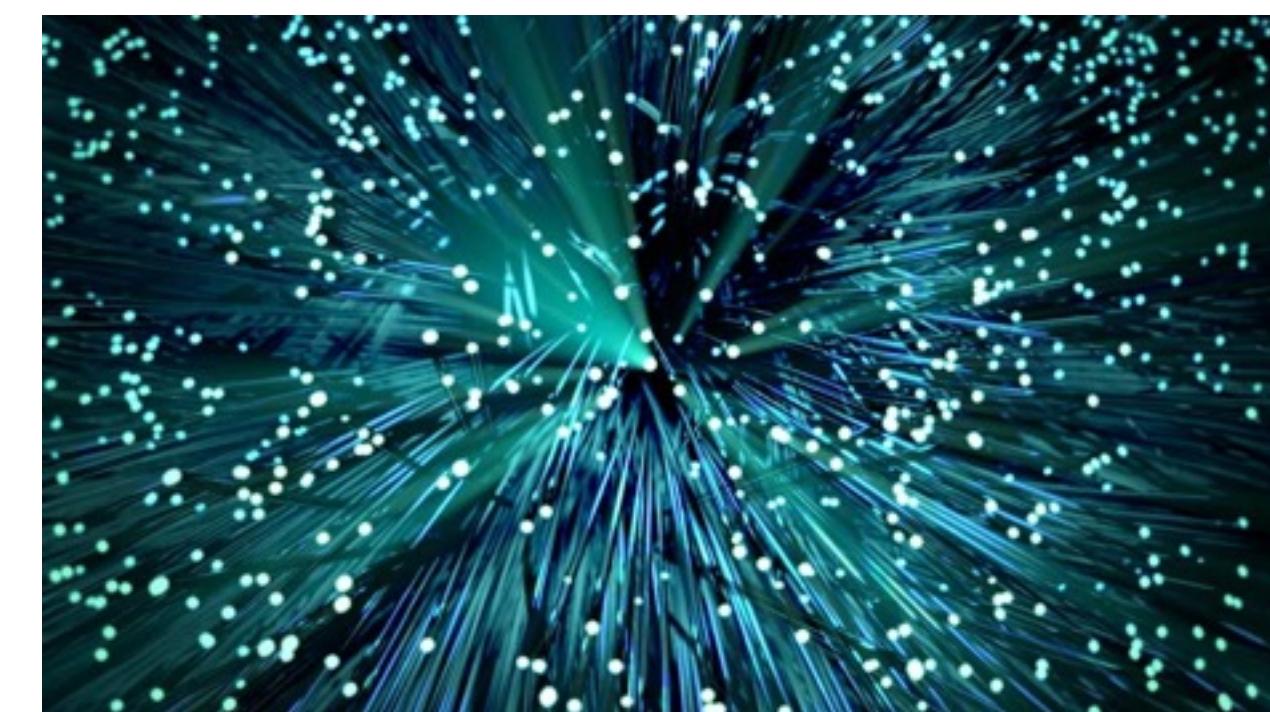
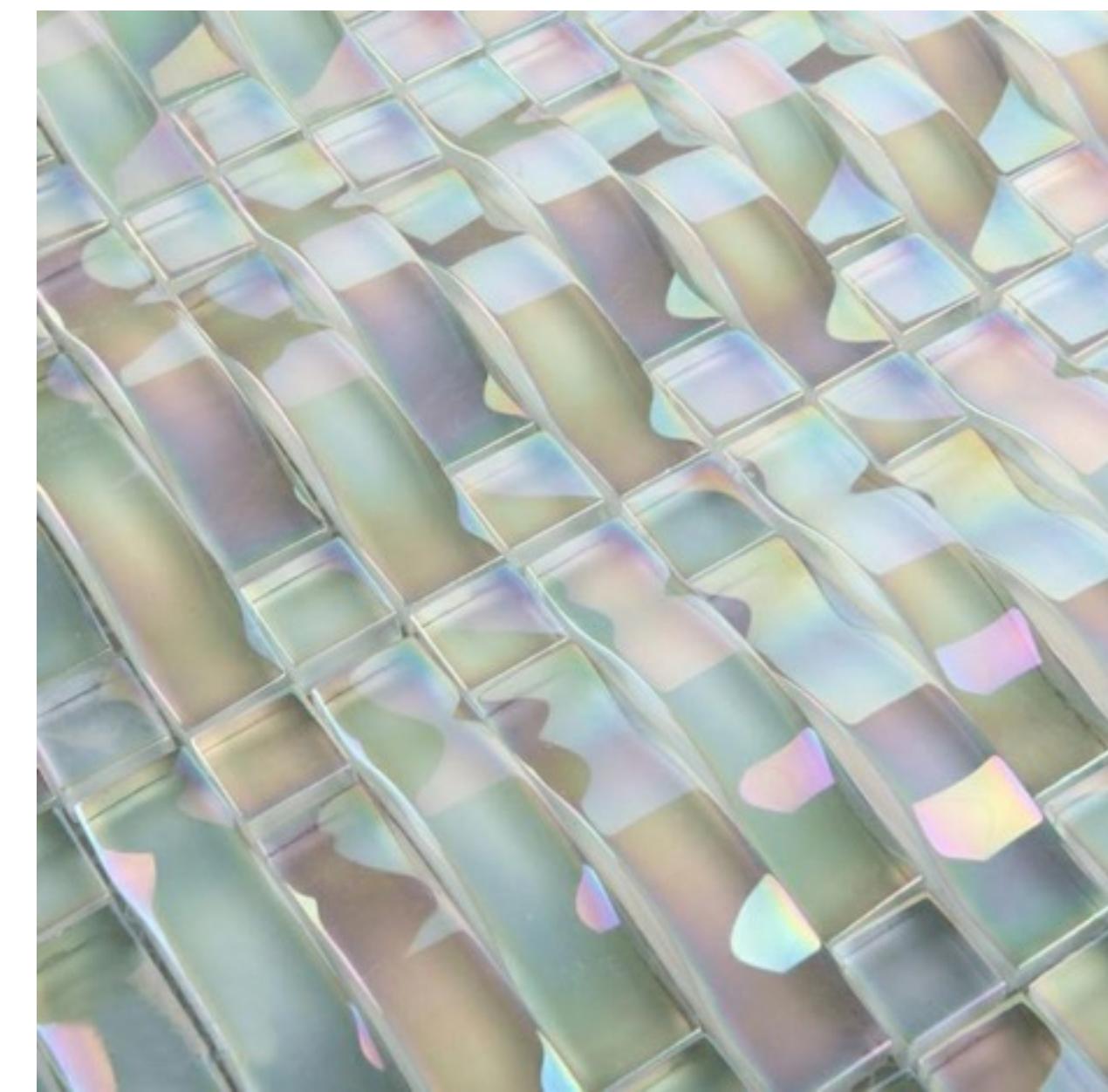
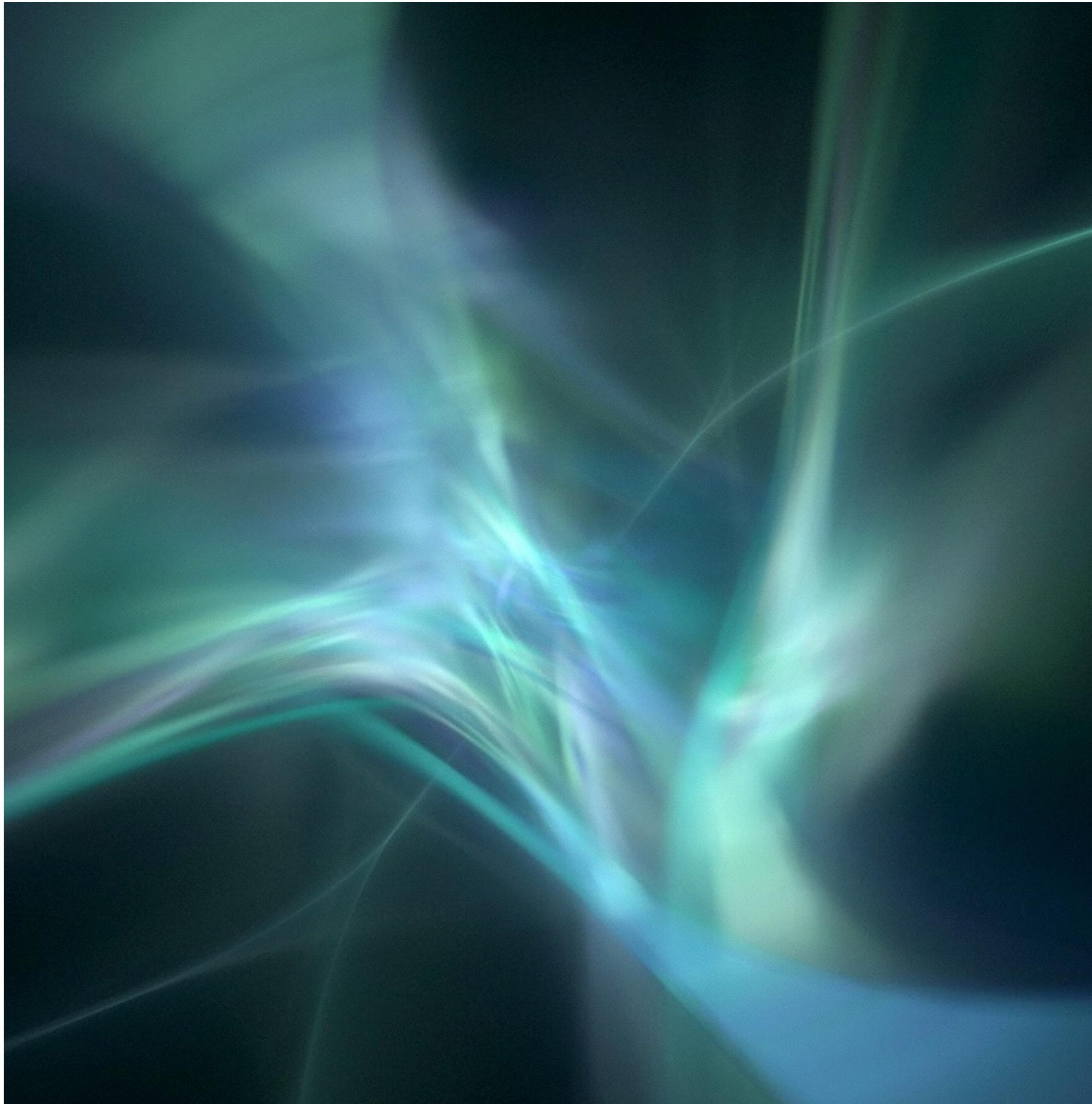
Through this we aim to give it a personality



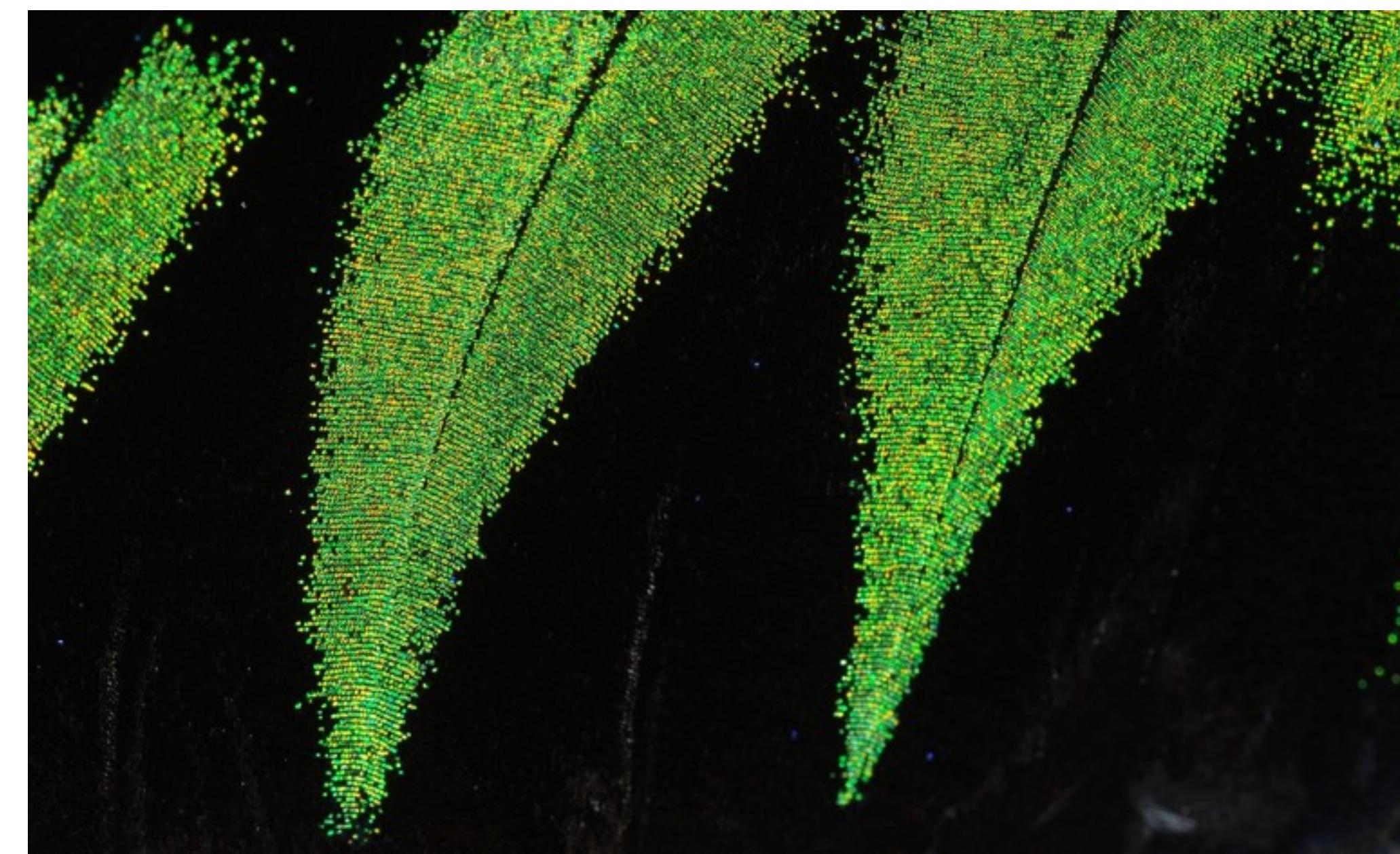
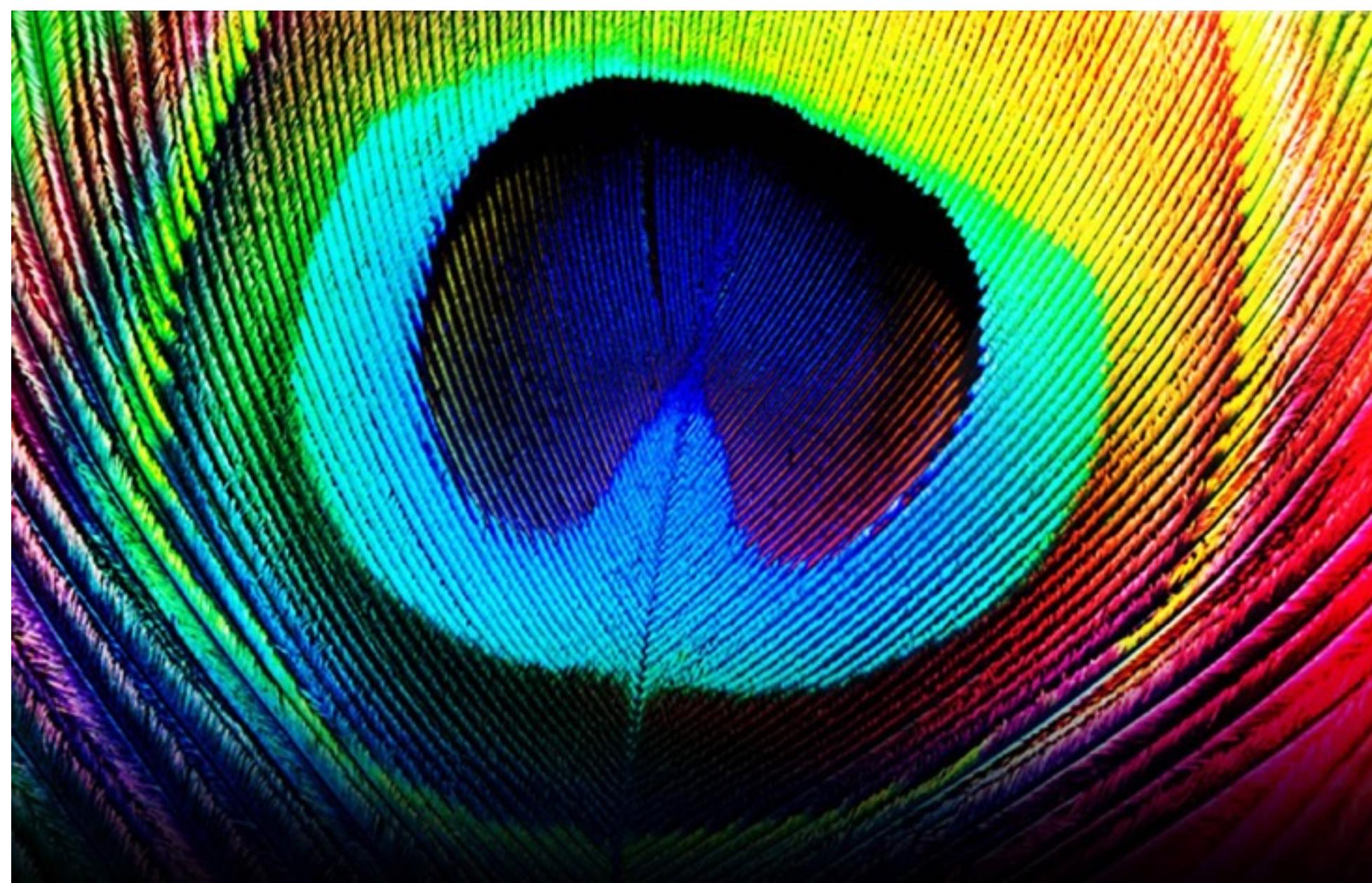
Materiality

The garment's materiality is influenced by attractants found in nature. Textural metaphors are inspired by the soft sheen of feathers and the pleasing comfort of animal fur. Modern materials that reflect and emit light will be used on the upper-portion of the garment. These shiny, modern additions add interesting visual tension between the rigid tech and elegant, soft fabric. Soft and organic, yet technical, the garment's materials encourage engagement from others.





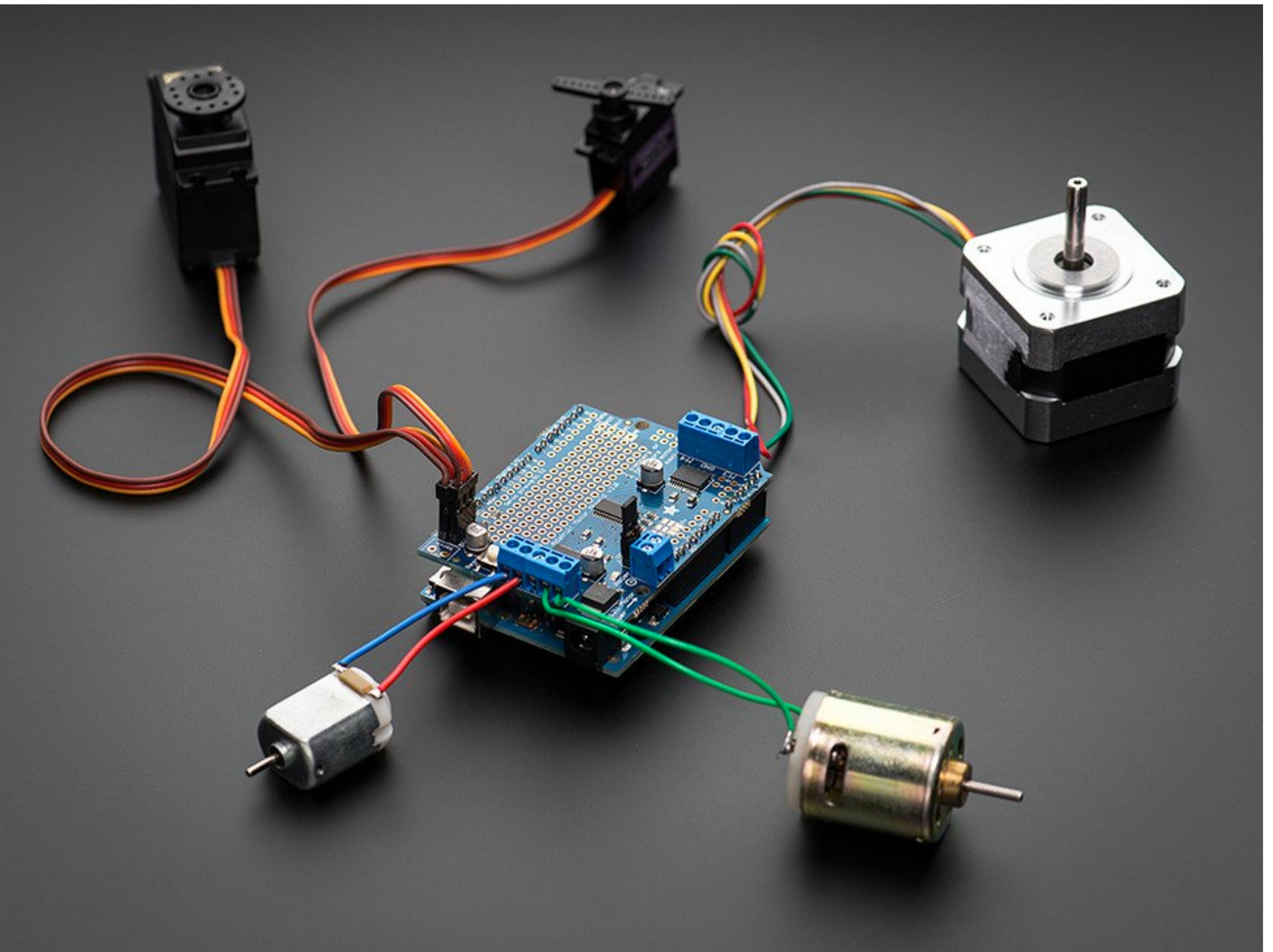


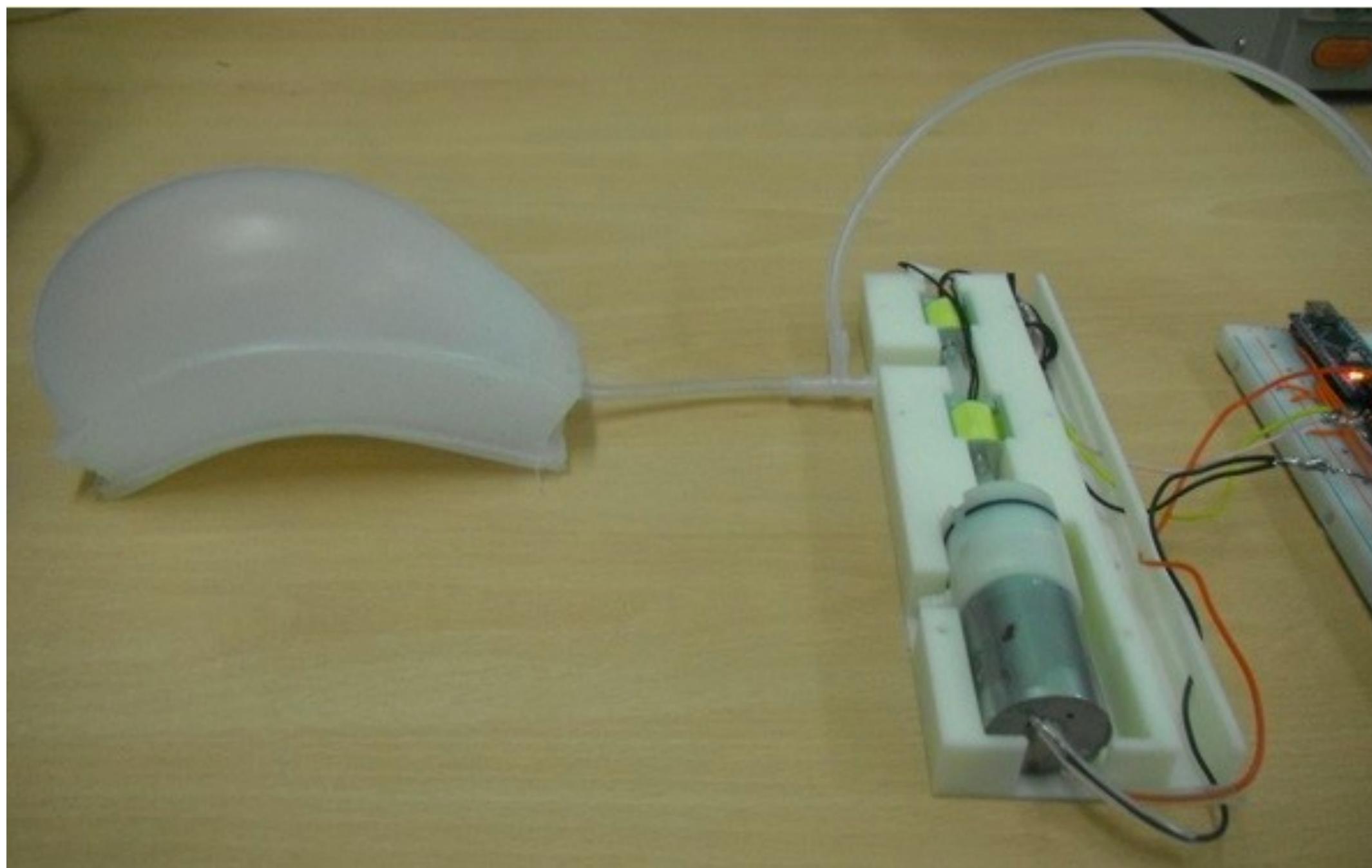
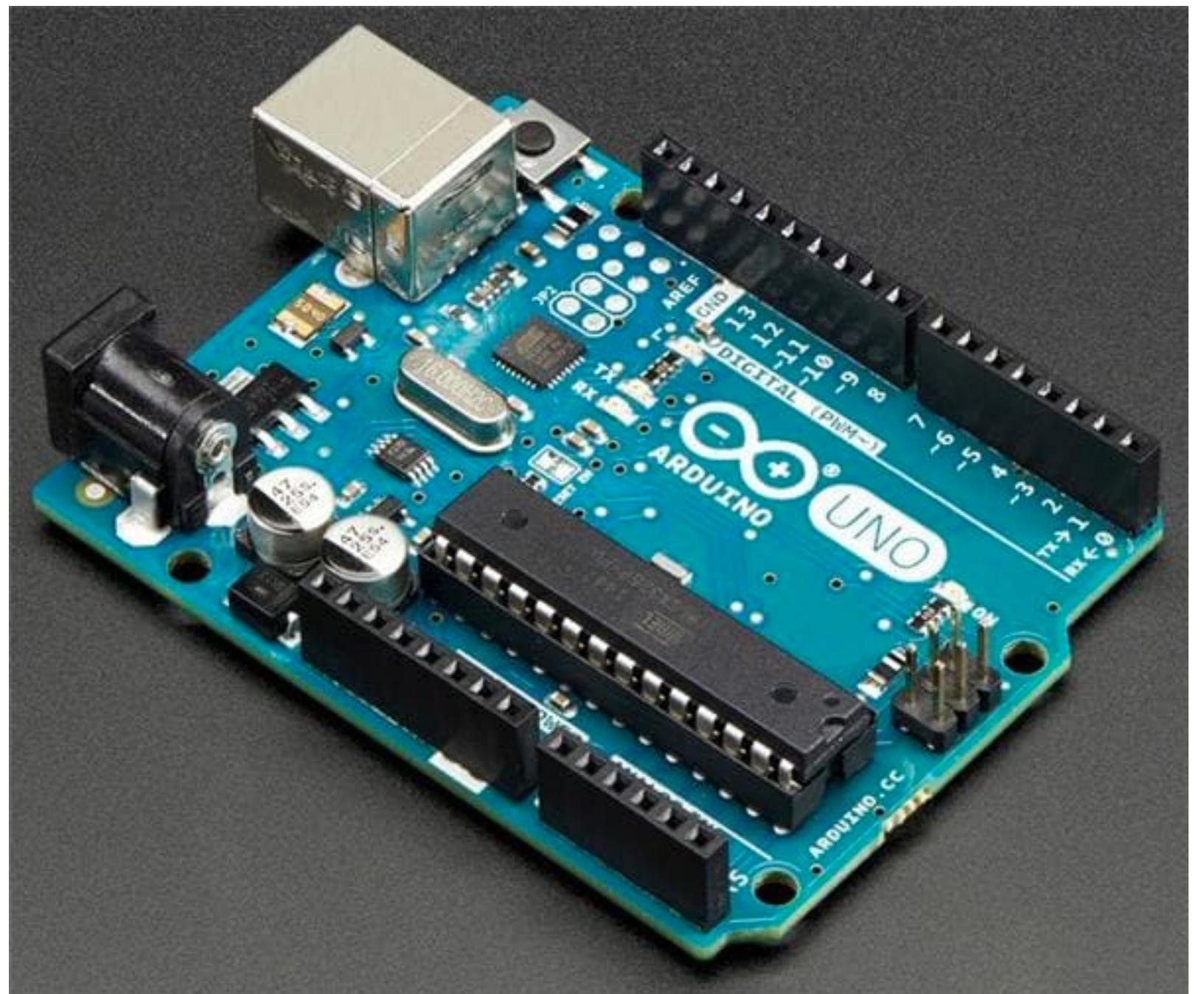


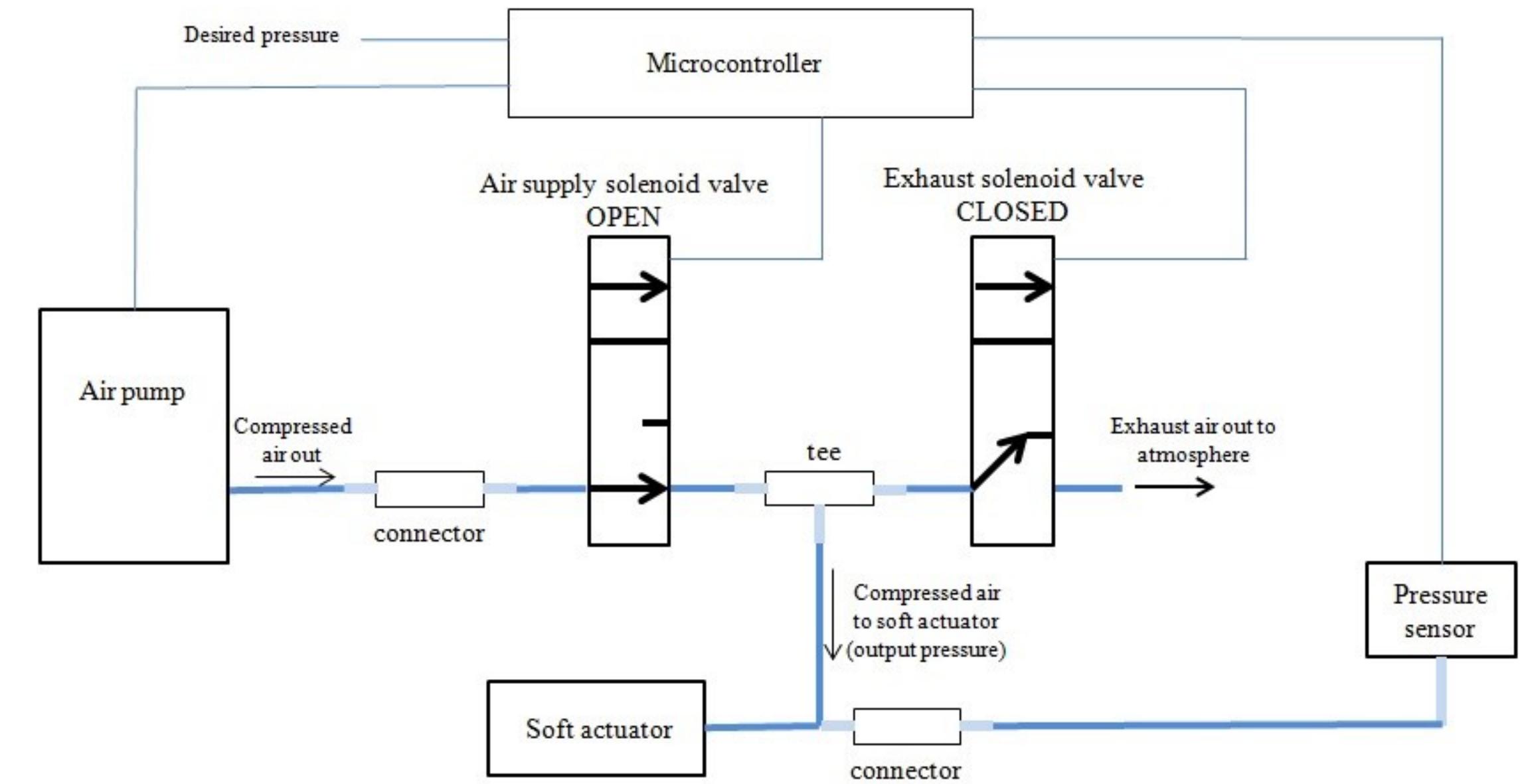
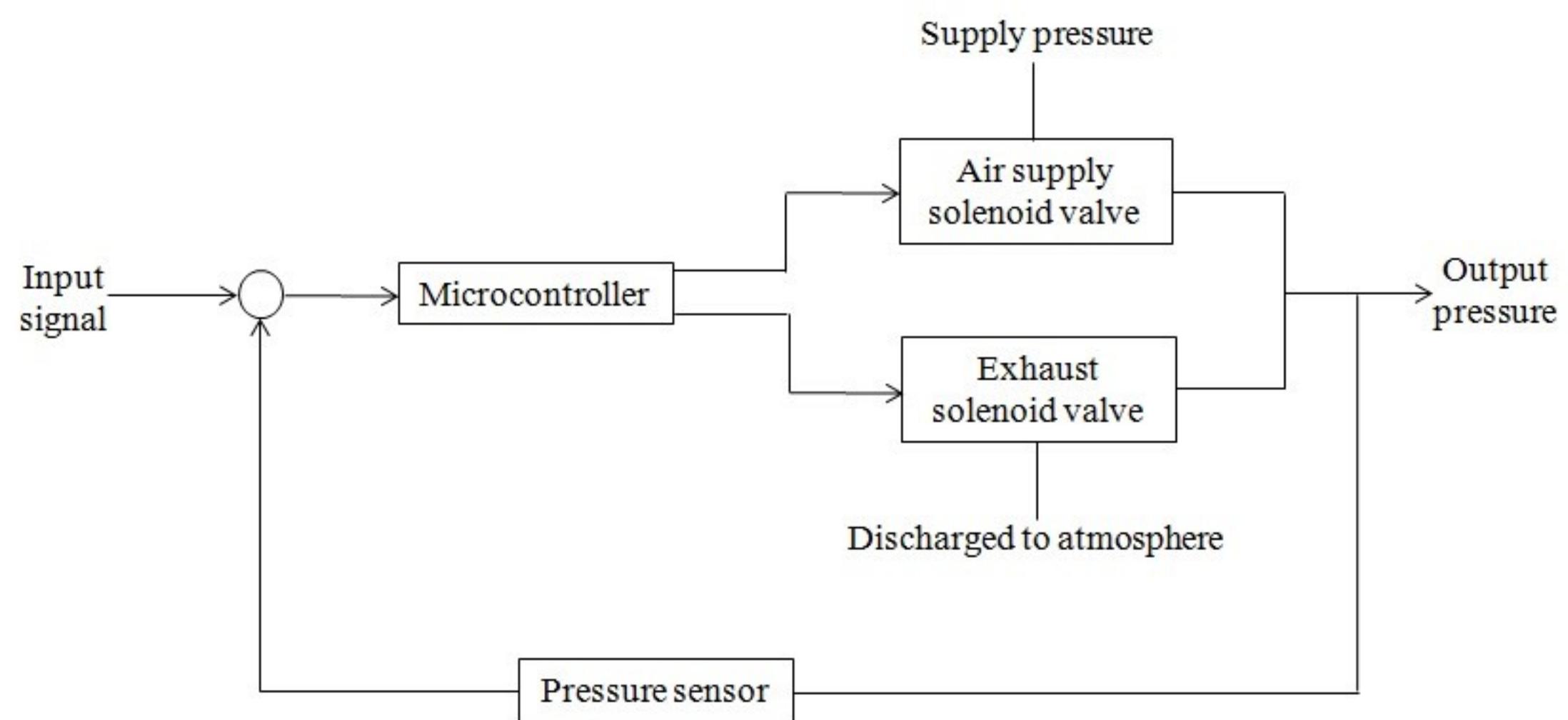


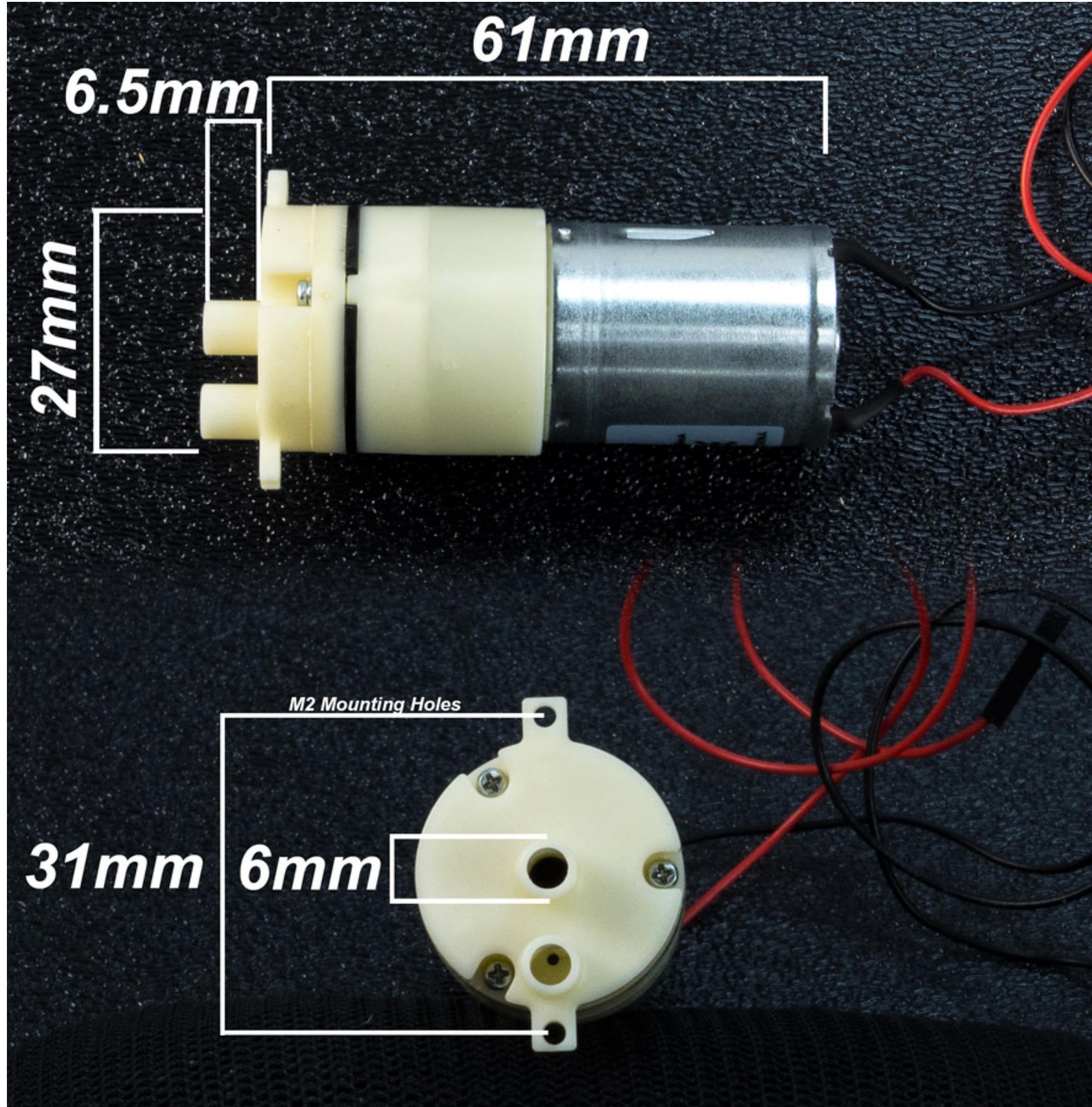
The garment's structure is loose and virtually undefined. Soft materials create a structure that drapes and sways. The theatricality in peacock mating methods serves as the foundational inspiration for the garments structure. Slow, rhythmic sway of sea kelp influenced the use of light materials. Lightweight materials allow the garment to move in sync or rebellion with the forces the fabric encounters. The impermanence of form and structure in the garment creates an ethereal sight.

Platform









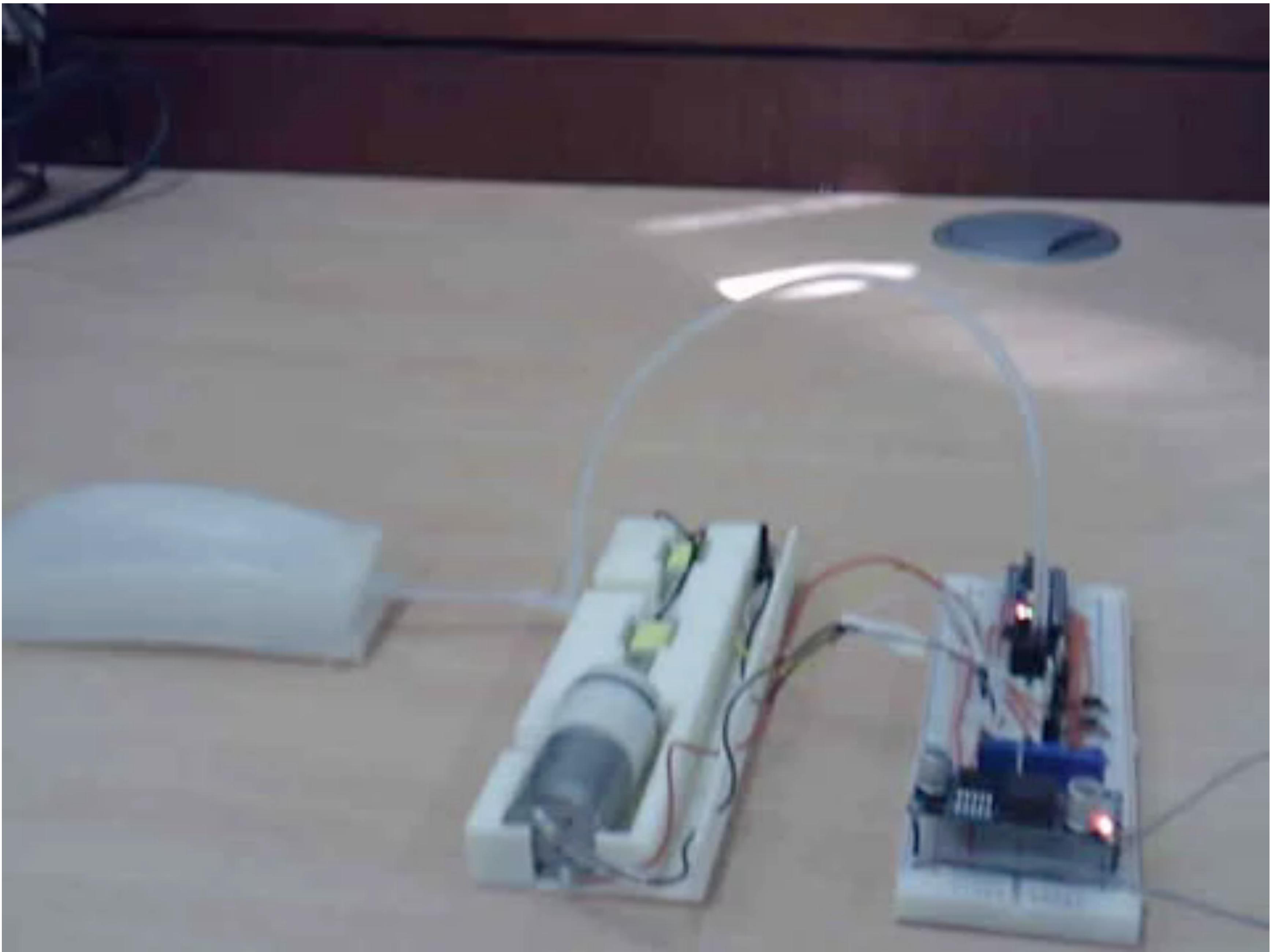
RobotGeek Self-Priming Pump - Small
Item # RG-SMPUMP

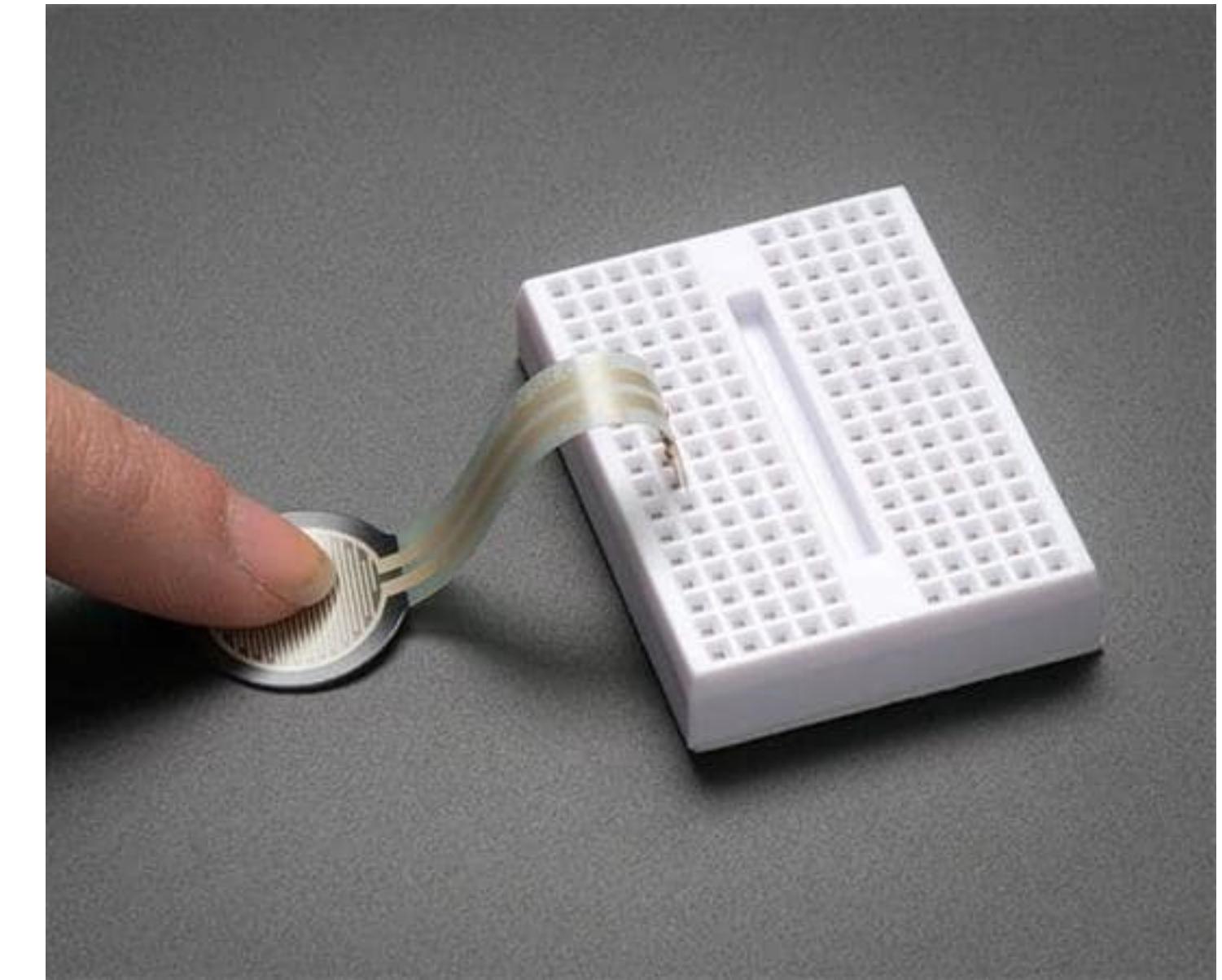
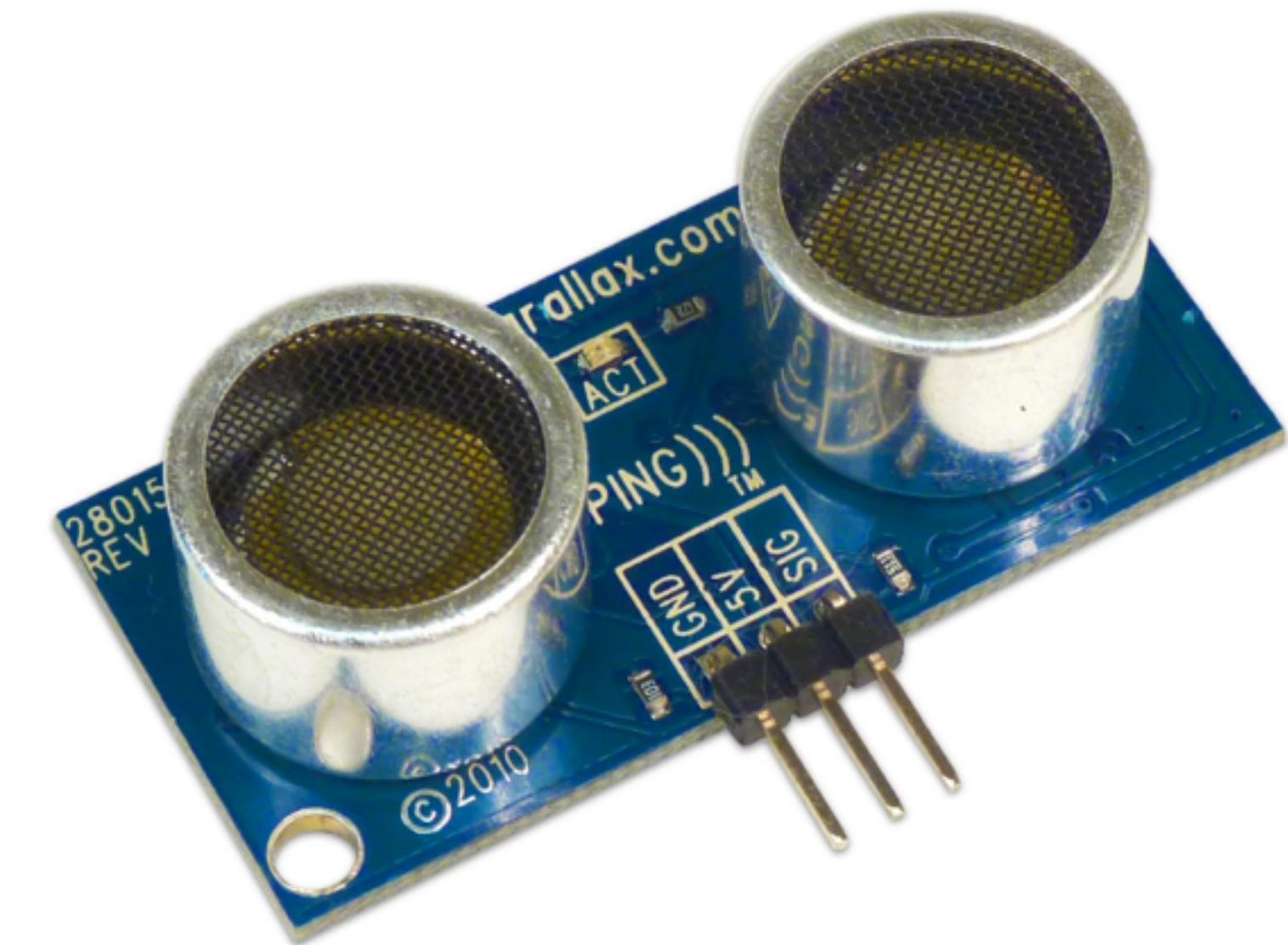
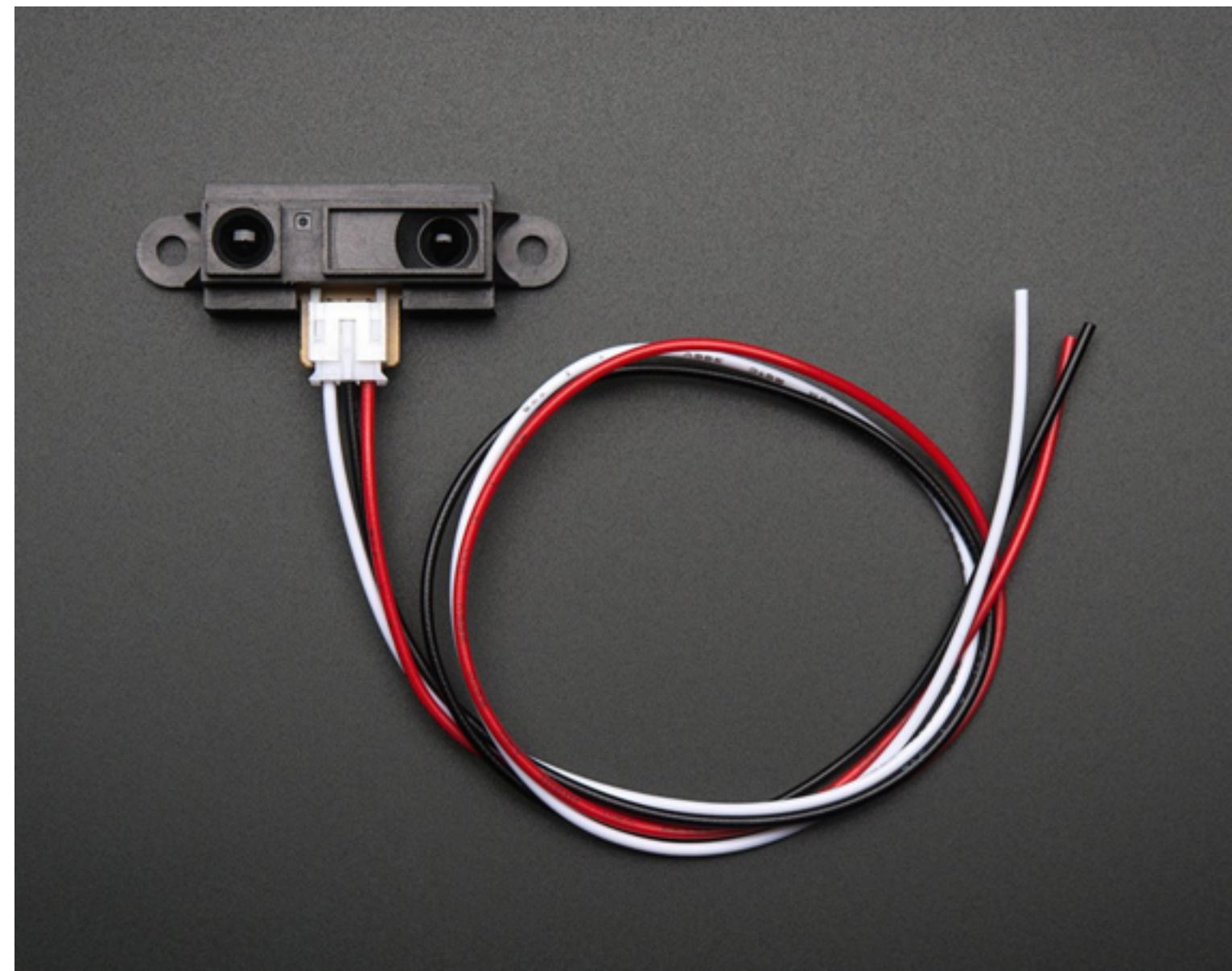
<http://www.trossenrobotics.com/robotgeek-pump-small>

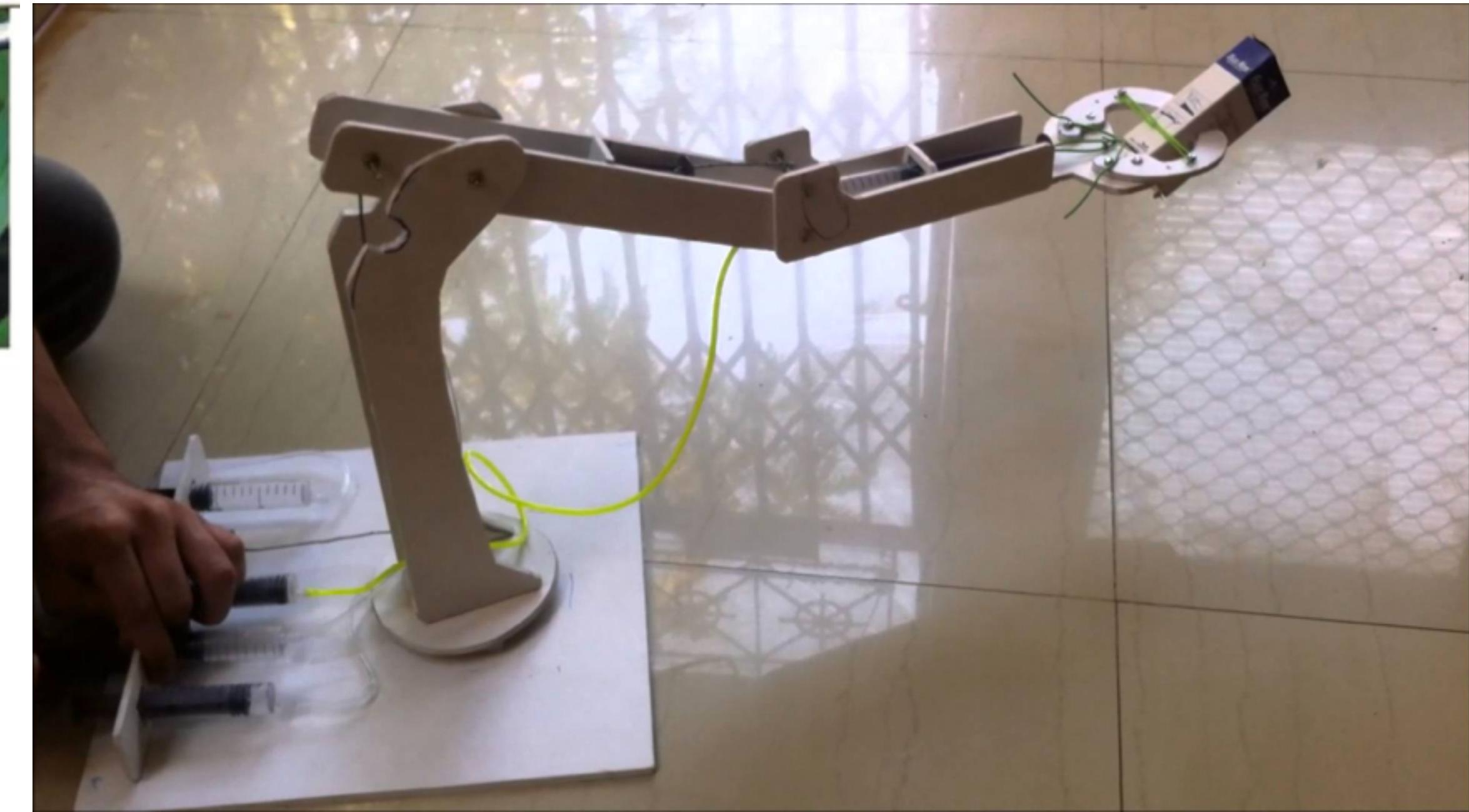
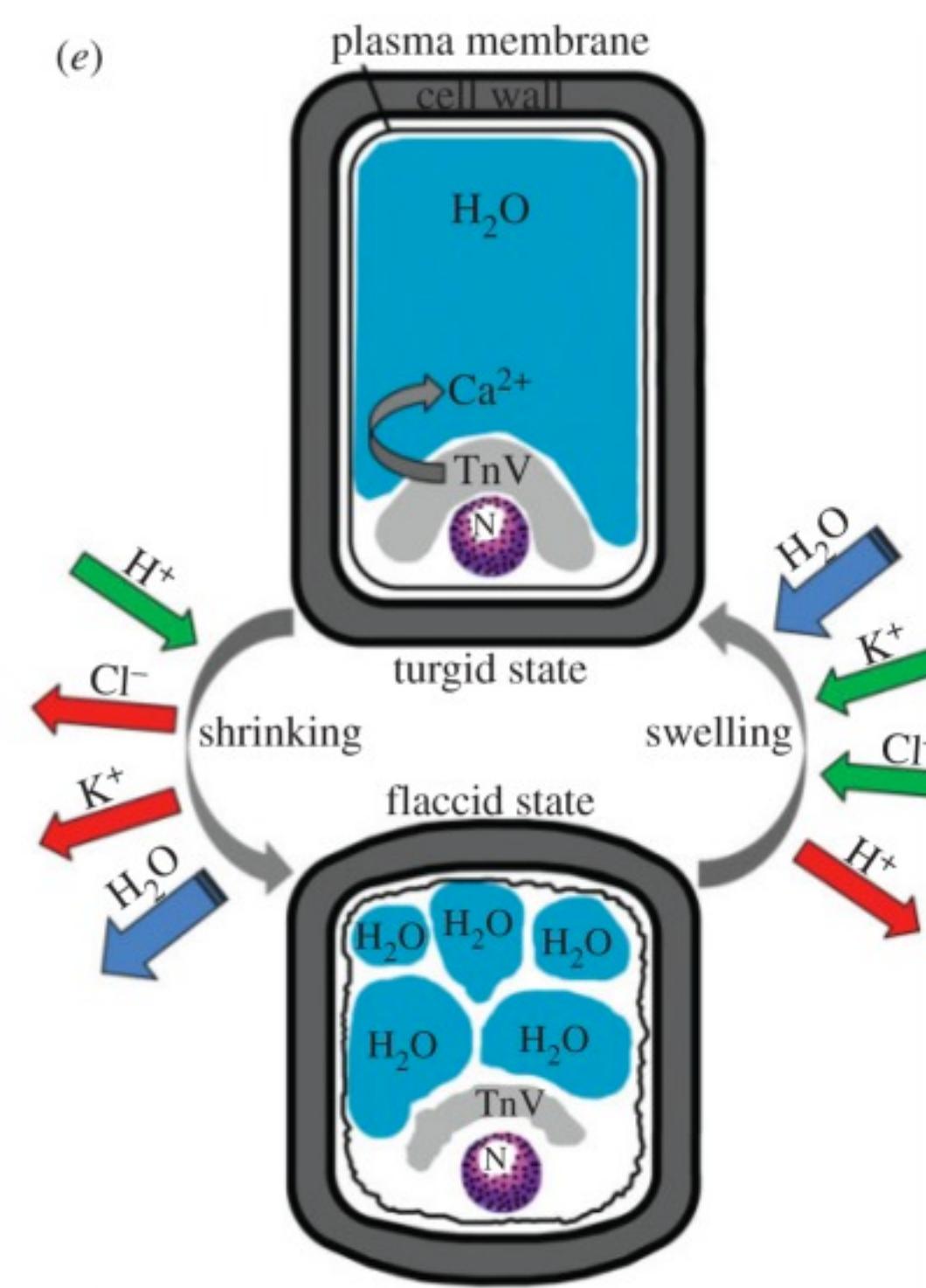
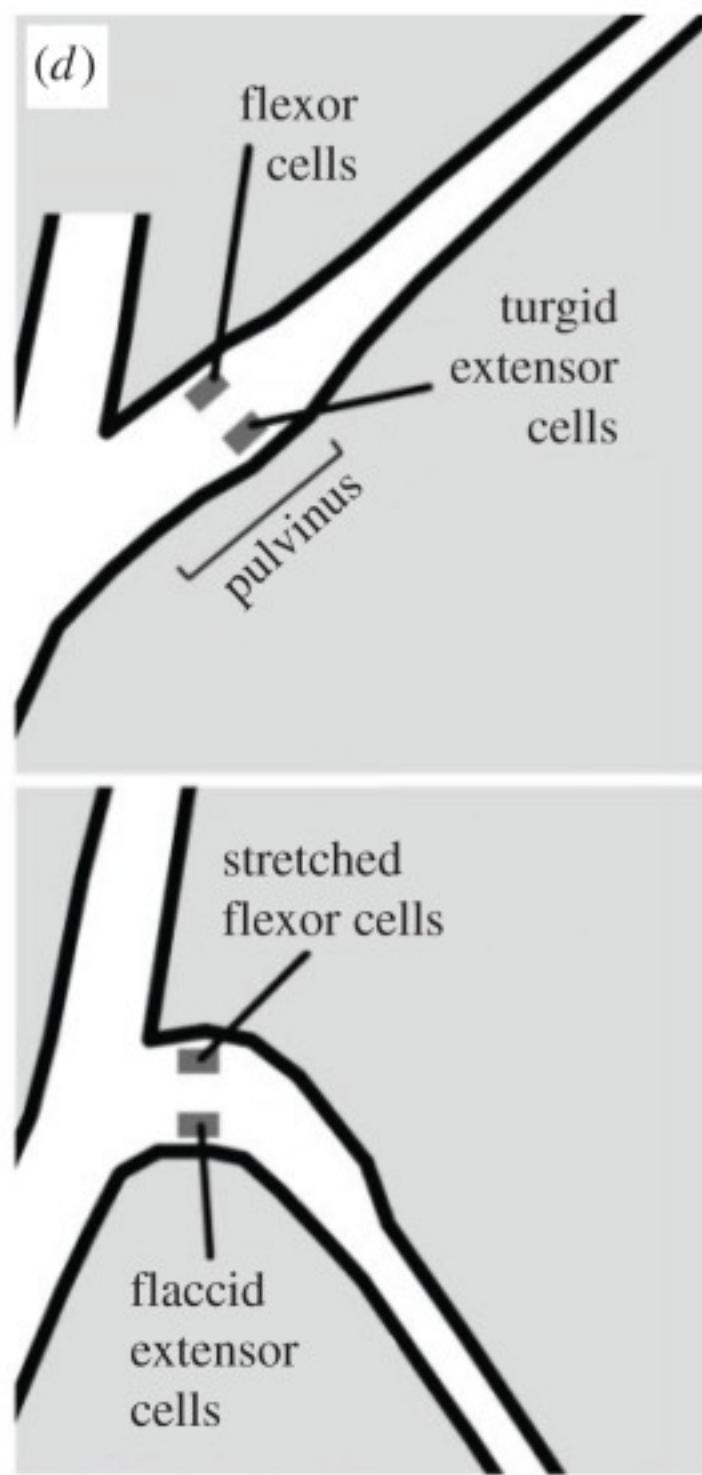
47 lines (33 sloc) | 1.14 KB

Raw Blame History

```
1 #include <Servo.h>
2
3 int sensorPin1 = A0; // select the input pin for the potentiometer
4 int sensorPin2 = A1; // select the input pin for the potentiometer
5 int sensorValue1 = 0; // variable to store the value coming from the sensor
6 int sensorValue2 = 0; // variable to store the value coming from the sensor
7
8 Servo myservo; // create servo object to control a servo
9
10 void setup() {
11     myservo.attach(9); // define pin used with servo motor
12     Serial.begin(9600); // initialize Serial
13 }
14
15 void loop() {
16     sensorValue1 = analogRead(sensorPin1); // update sensorValue1
17     sensorValue2 = analogRead(sensorPin2); // update sensorValue2
18
19     printSensorValues();
20
21     // creating condition for servo to turn left or right following light
22     if (sensorValue1 <= sensorValue2) {
23         myservo.write(35);
24         delay(1000);
25     } else {
26         myservo.write(150);
27         delay(1000);
28     }
29 }
30
31
32 void printSensorValues() {
33
34     // print "Sensor 1:(sensorValue1)"
35     Serial.print("Sensor 1: ");
36     Serial.print(sensorValue1);
37
38     // print "Sensor 2:(sensorValue2)"
39     Serial.print(" Sensor 2: ");
40     Serial.print(sensorValue2);
```



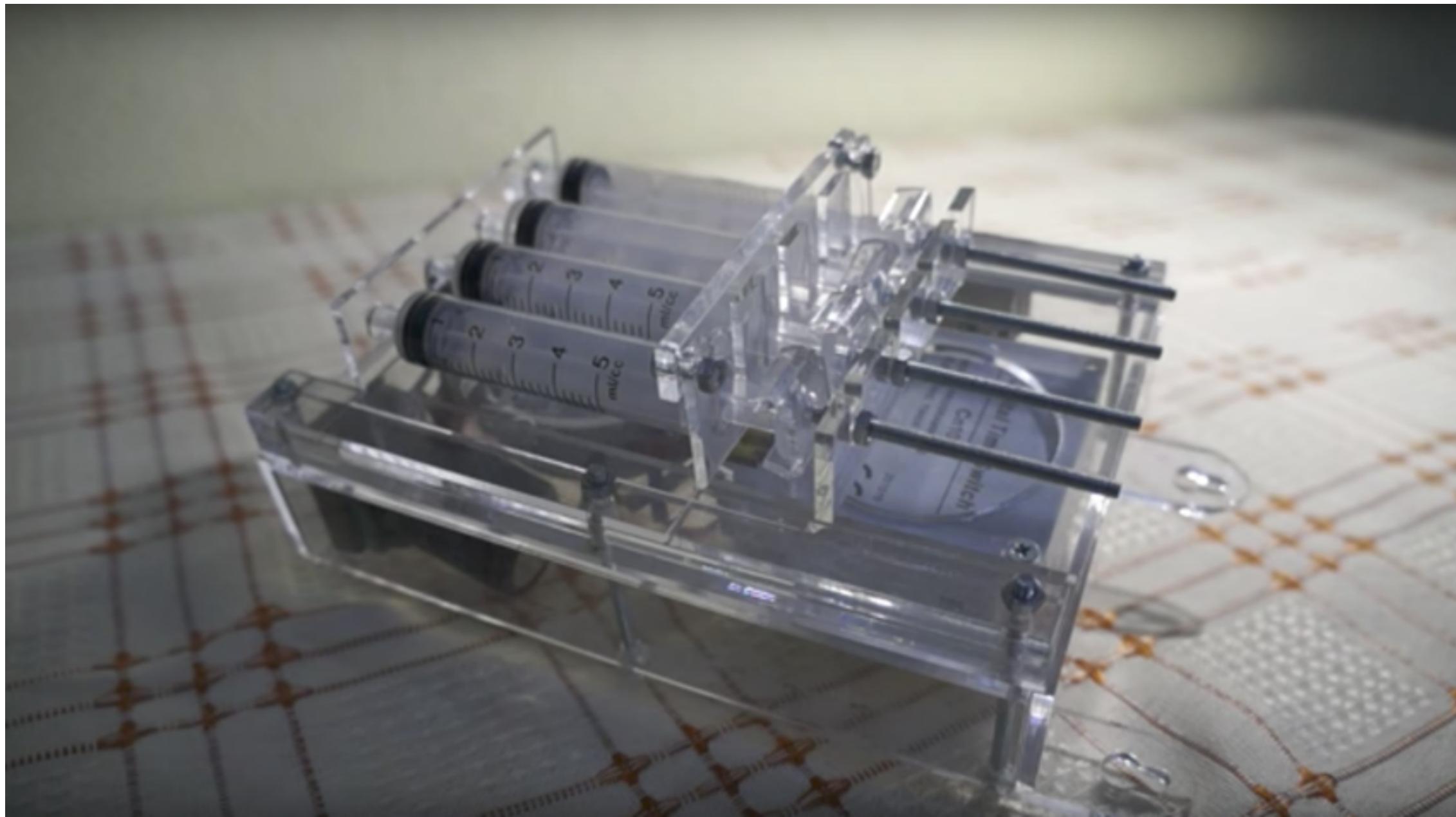




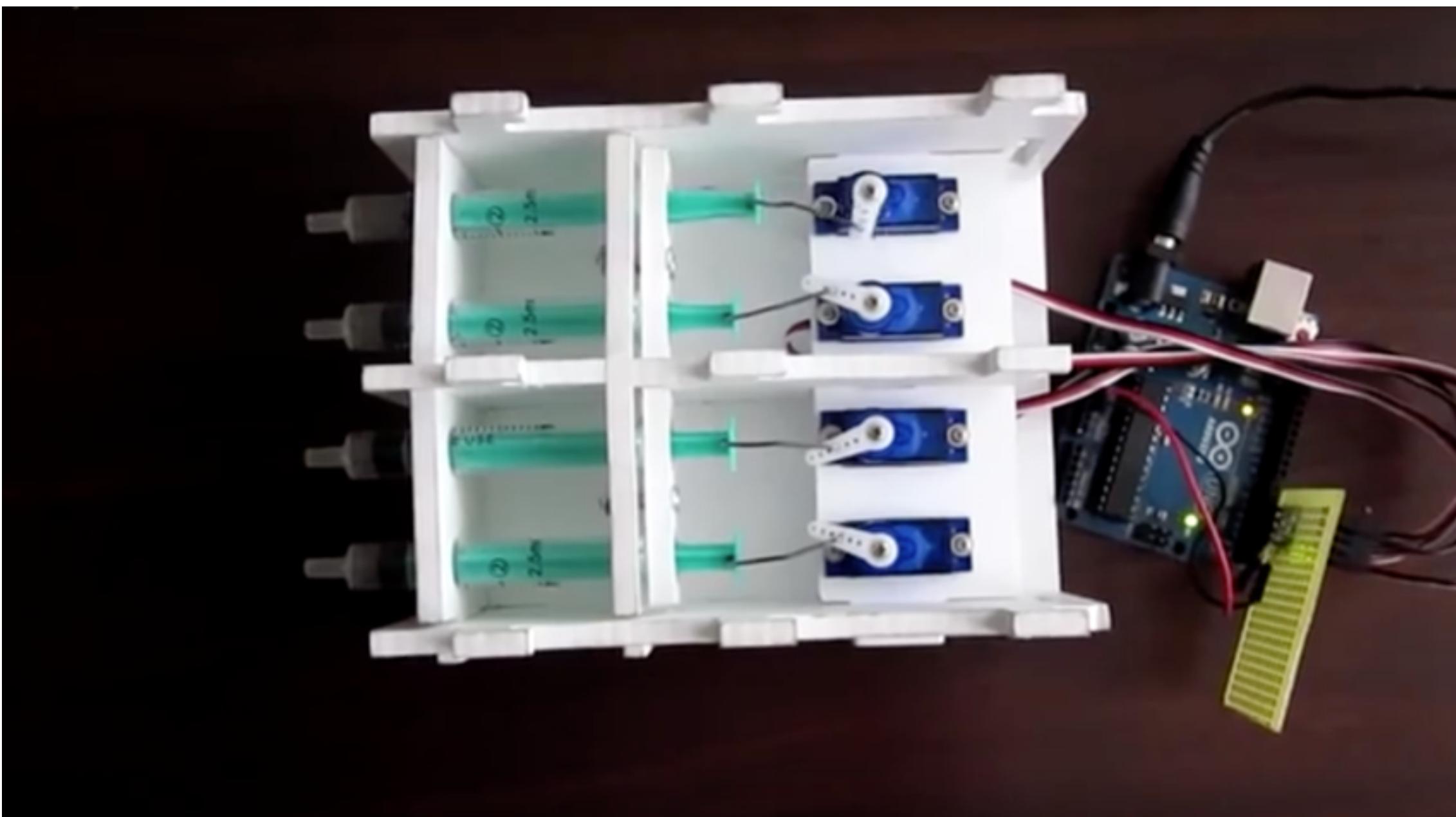
<https://www.youtube.com/watch?v=vh61rz34dwI>

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4614472/>



<https://www.youtube.com/watch?v=rMl34ZFELIM>

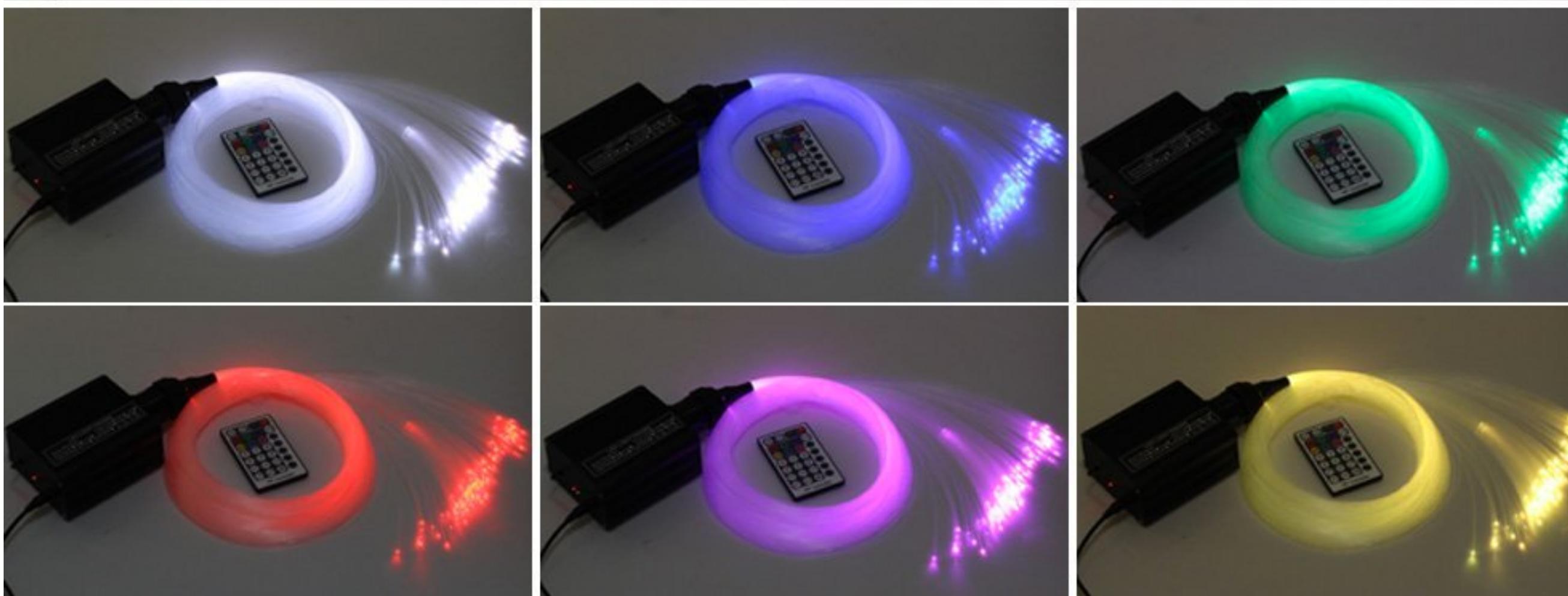


https://www.youtube.com/watch?v=TH8st3B_bd8



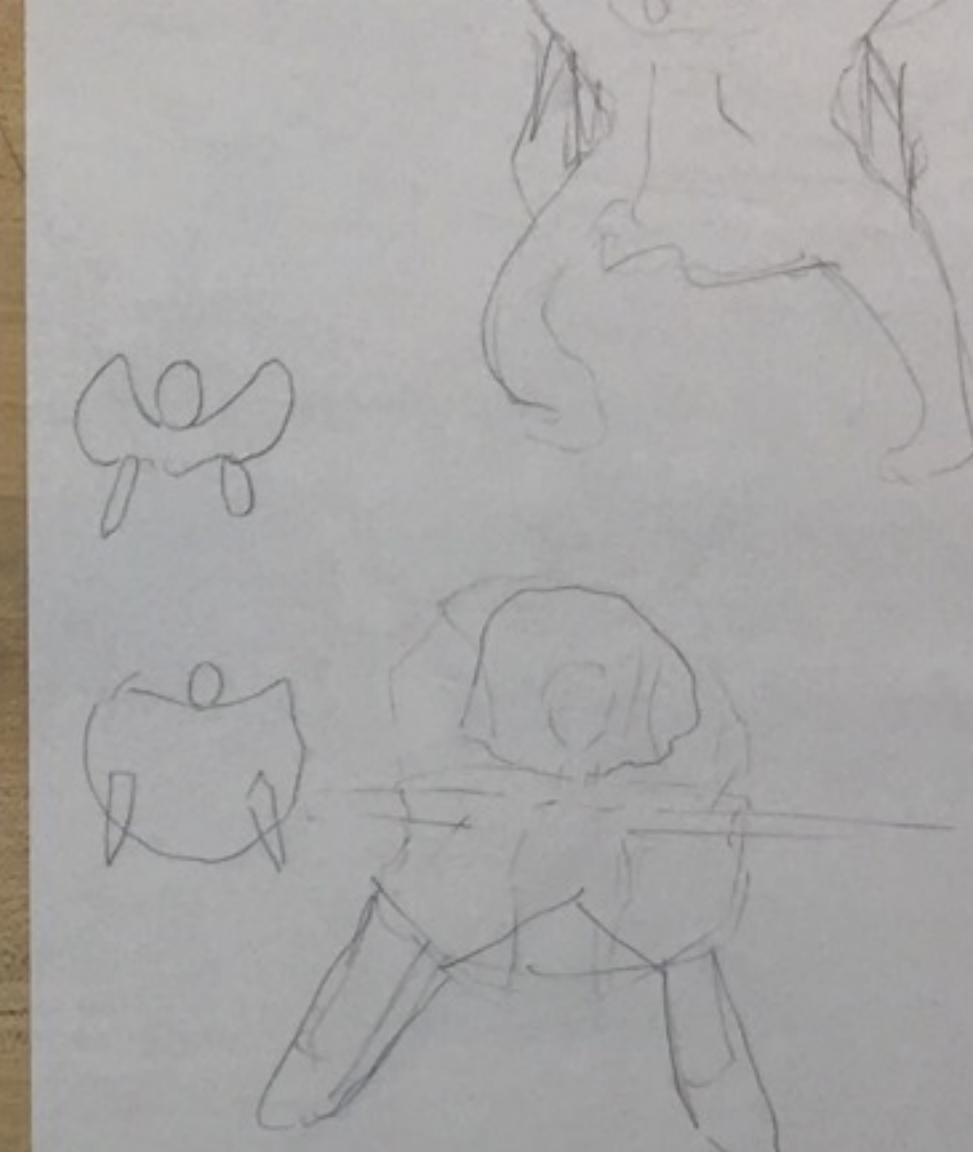
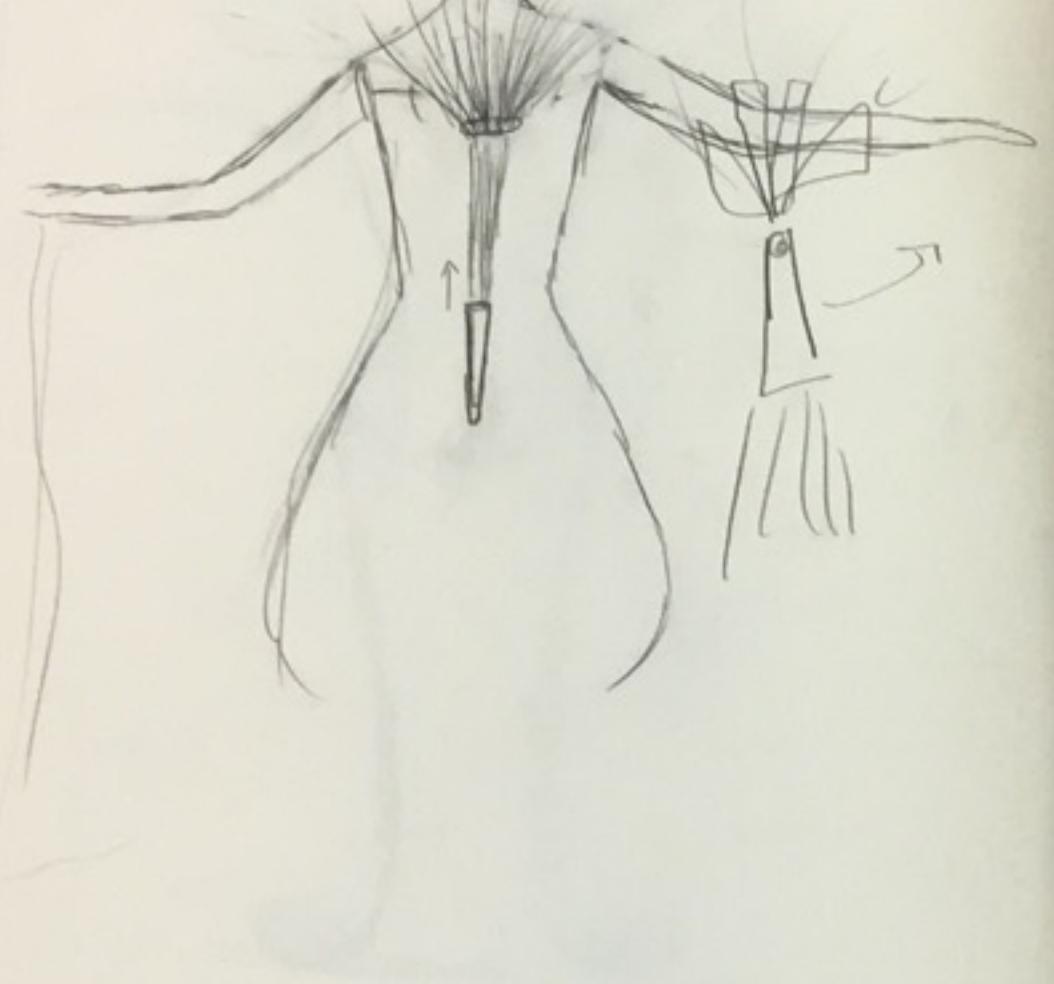
16W RGBW LED Fiber optic light Star Ceiling Kit Lights

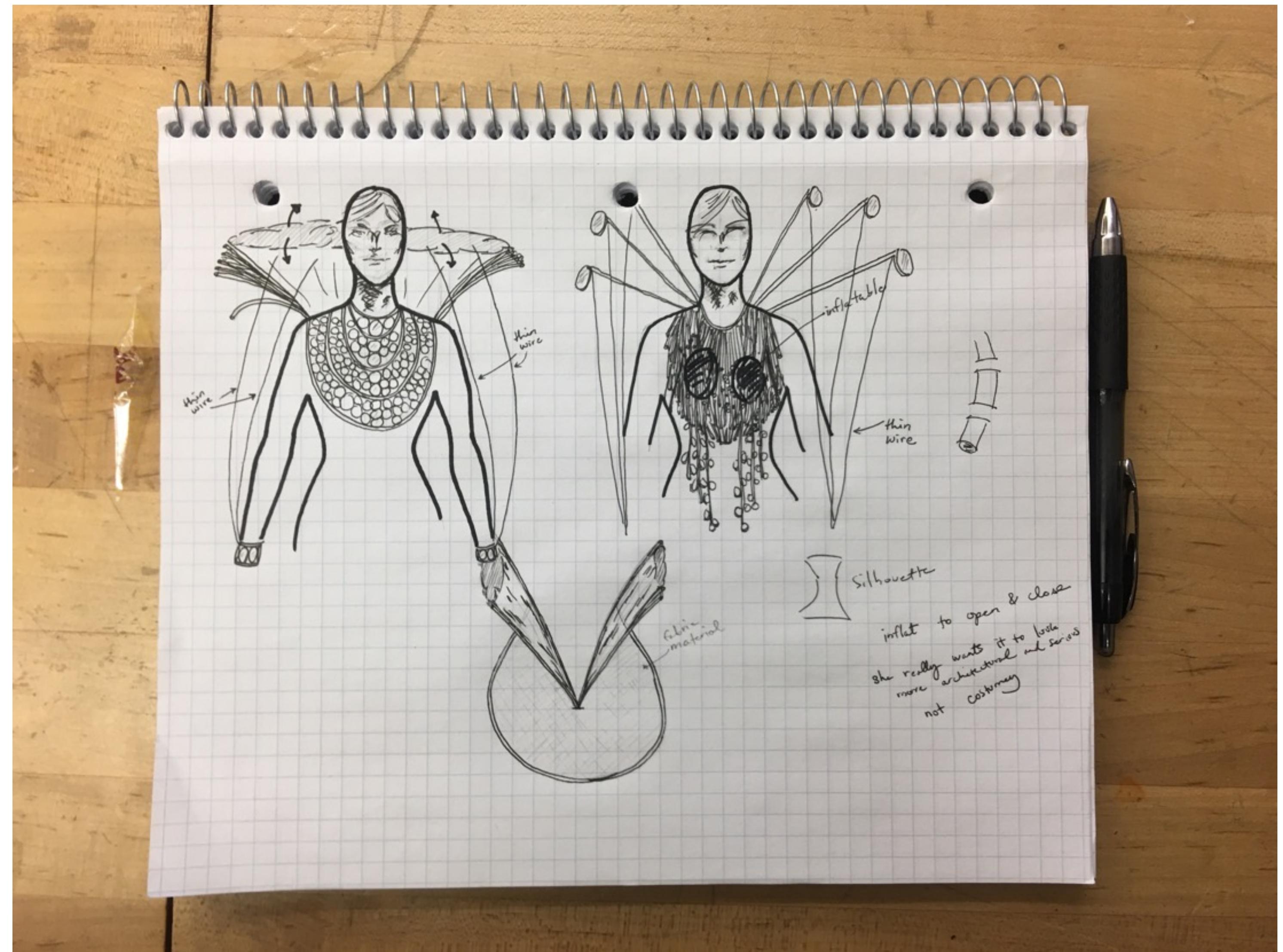
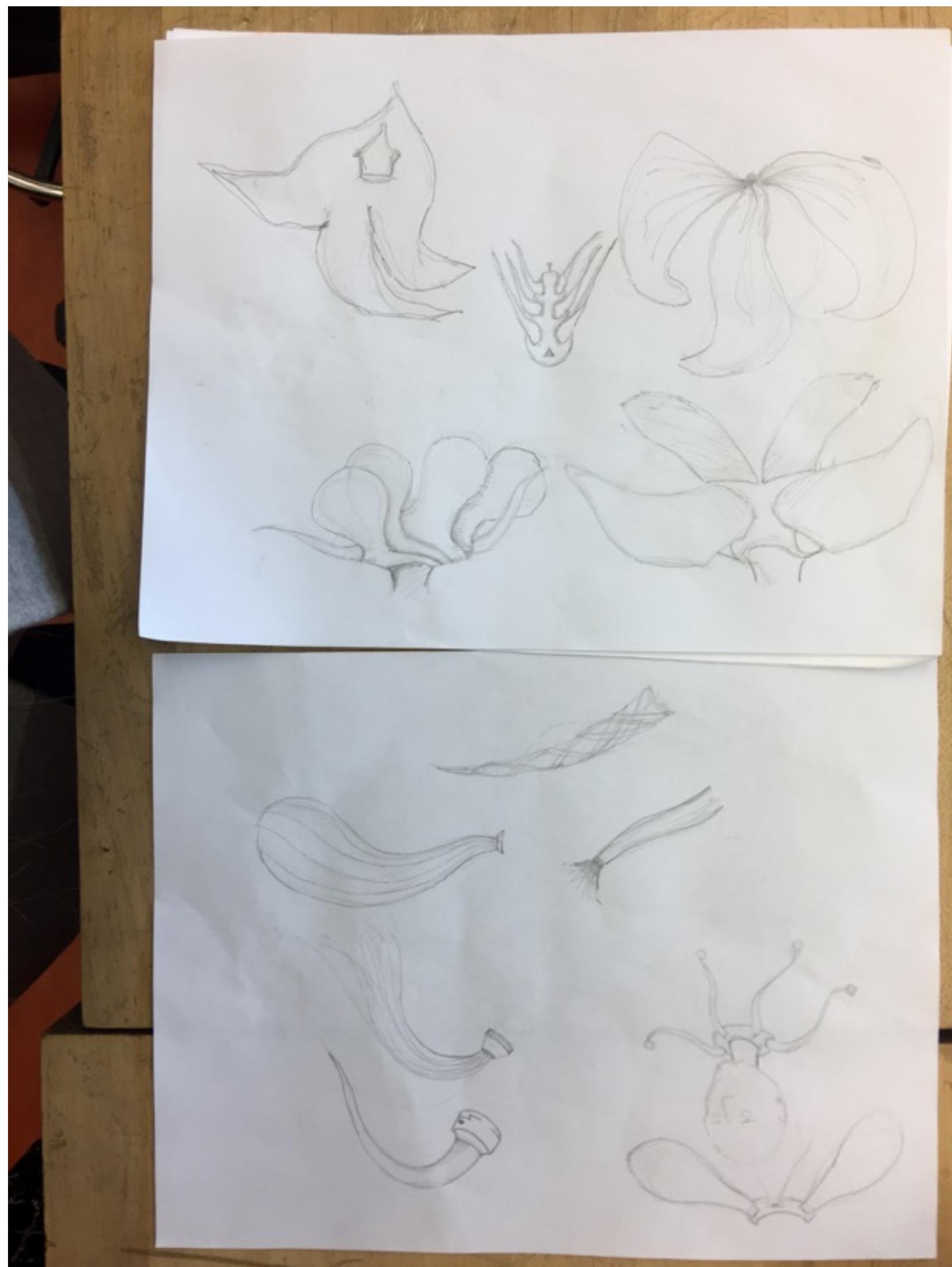
https://www.amazon.com/Ceiling-Lights-150pcs-optical-lighting/dp/B014D75YPG/ref=pd_sim_60_4?_encoding=UTF8&pd_rd_i=B014D75YPG&pd_rd_r=E8E5J595JYWSPWZB1Z2Y&pd_rd_w=lciaj&pd_rd_wg=fMvTk&psc=1&refRID=E8E5J595JYWPWZB1Z2Y



Sketches









Prototypes