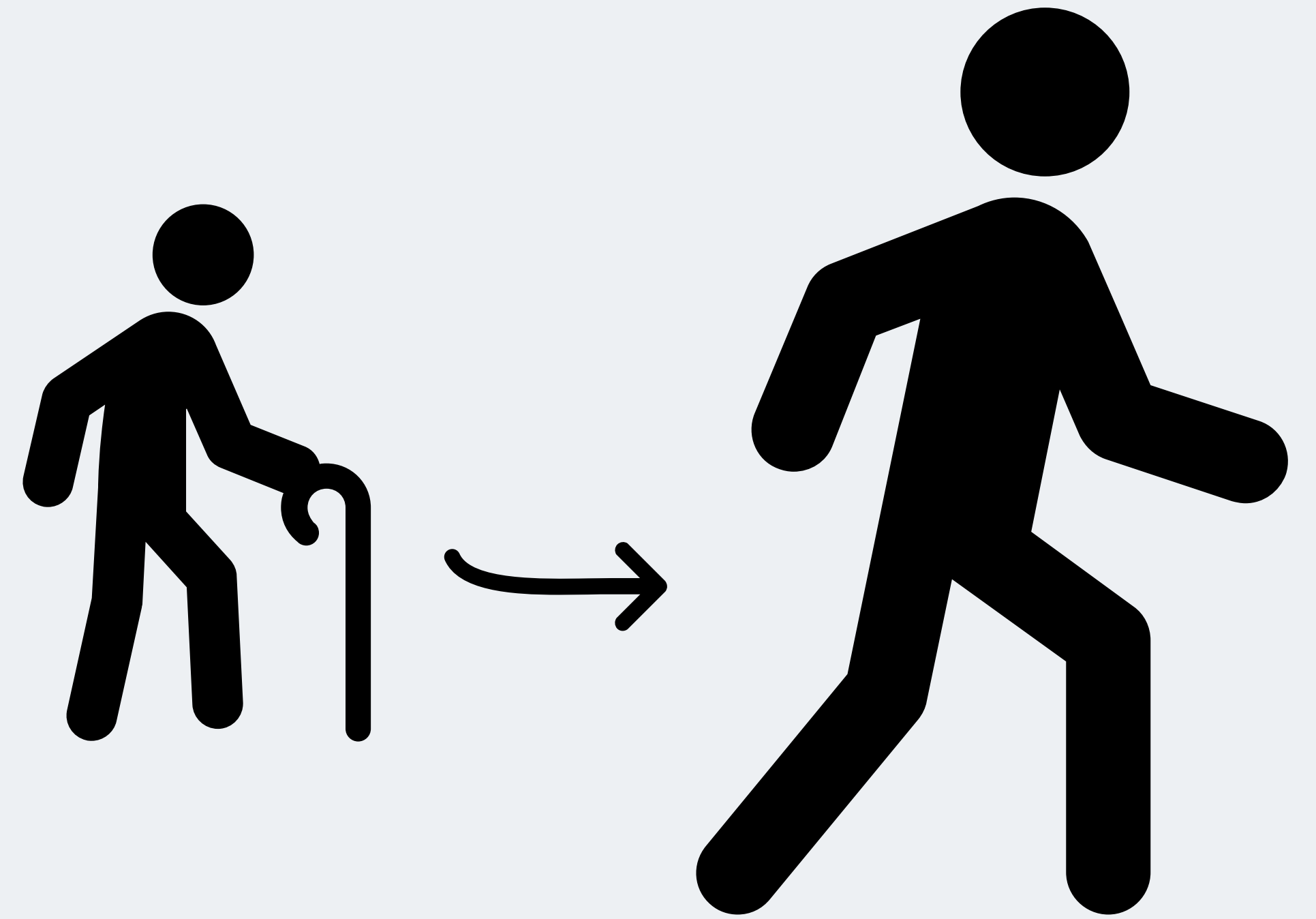


# 장애물 감지 패션 서비스



13조 OMW팀 김수희, 김다솜, 김재희, 조자



# Table of Contents



1. Requirement



2. Present  
appearance



3. Development  
direction



The background features a series of concentric circles in a light gray color. A solid blue horizontal bar with a rounded right end is positioned on the left side. The number '01' is written in white inside this bar. The word 'Requirement' is written in a dark blue, italicized font to the right of the bar. A small gray arrow points to the right, located between the blue bar and the word 'Requirement'.

01

# *Requirement*



# *Requirement*



# Requirement



✓ 사용자 원하는 감지 거리를 어플에서 설정할 수 있다.

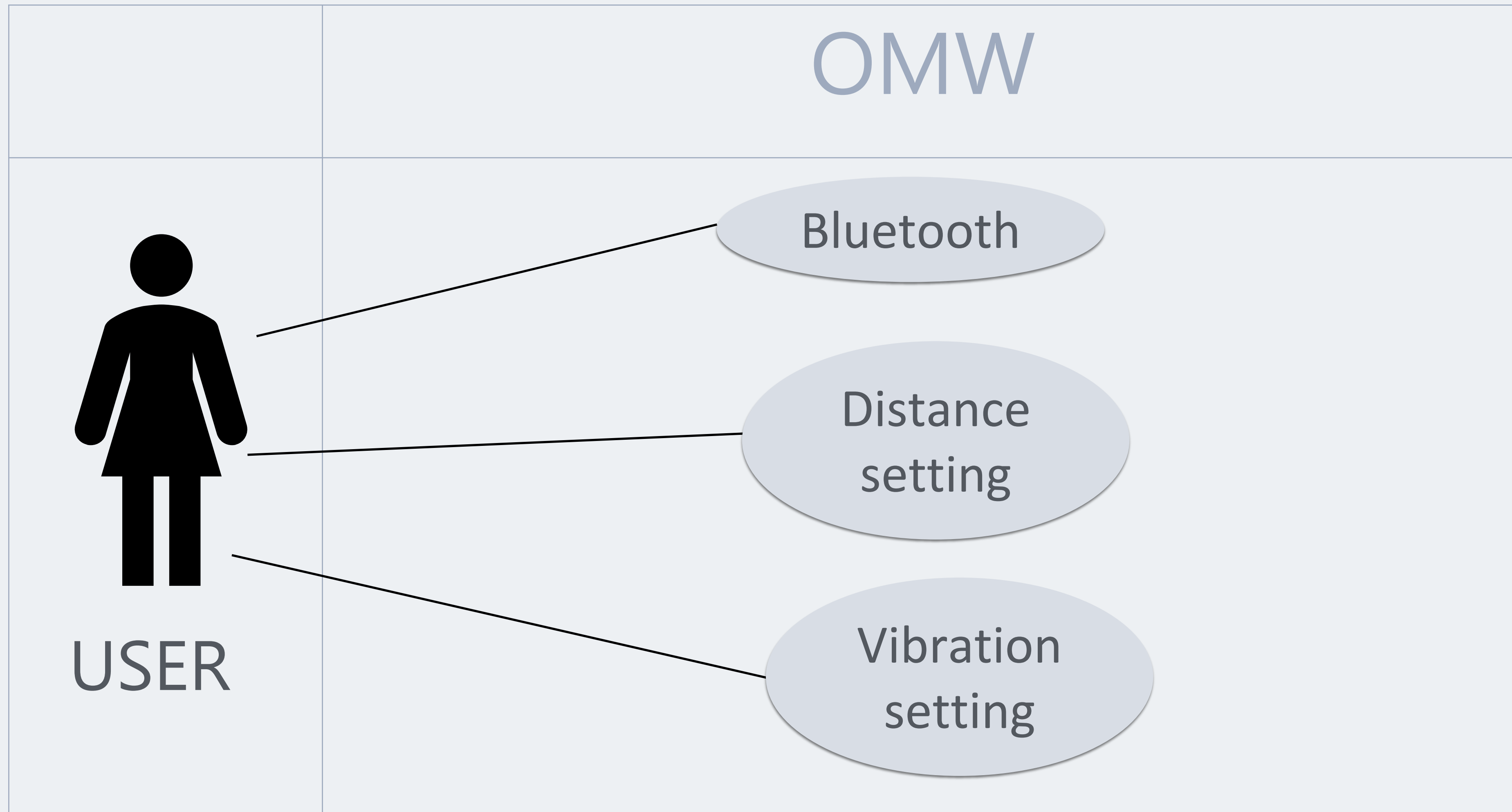
✓ 장애물과의 거리가 가까워질수록 진동 빈도를 조절 할 수 있다.

✓ 장애물이 감지 될 때, 감각이 민감한 손목에 진동을 줌으로 장애물 감지를 보행자에게 알릴 수 있다.

✓ 옷에 센서모듈들을 탈부착 할 수 있습니다.



# Requirement





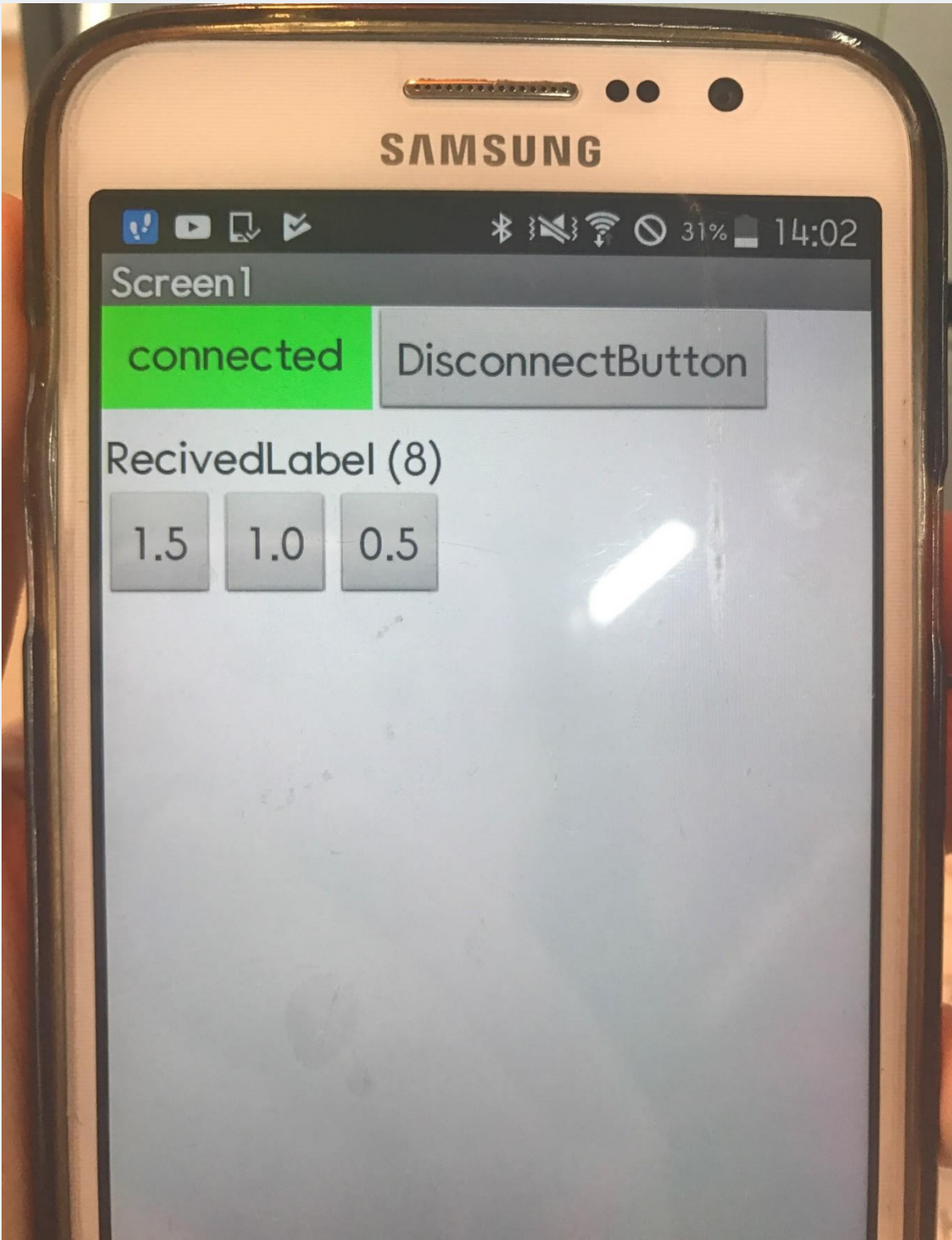
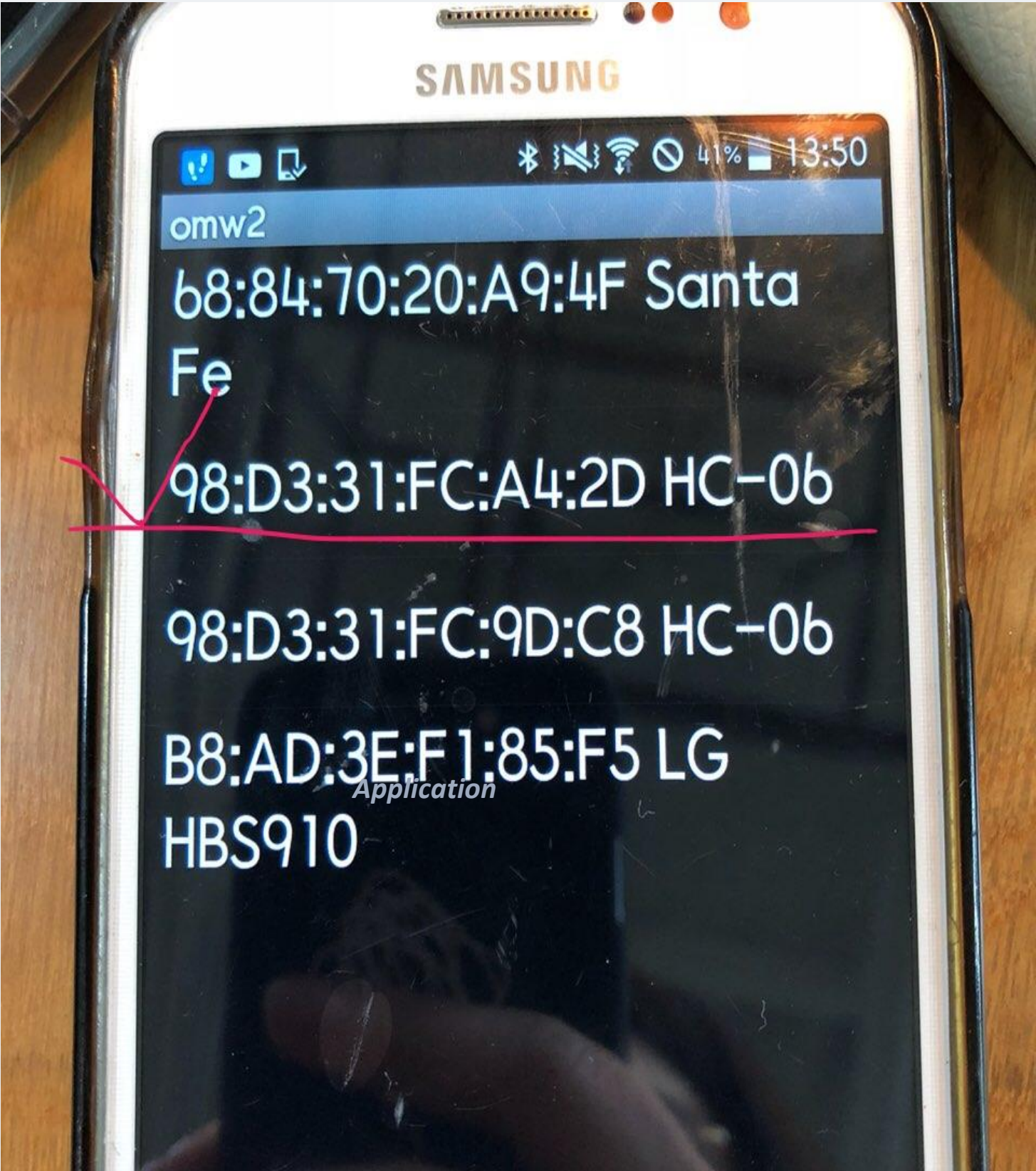
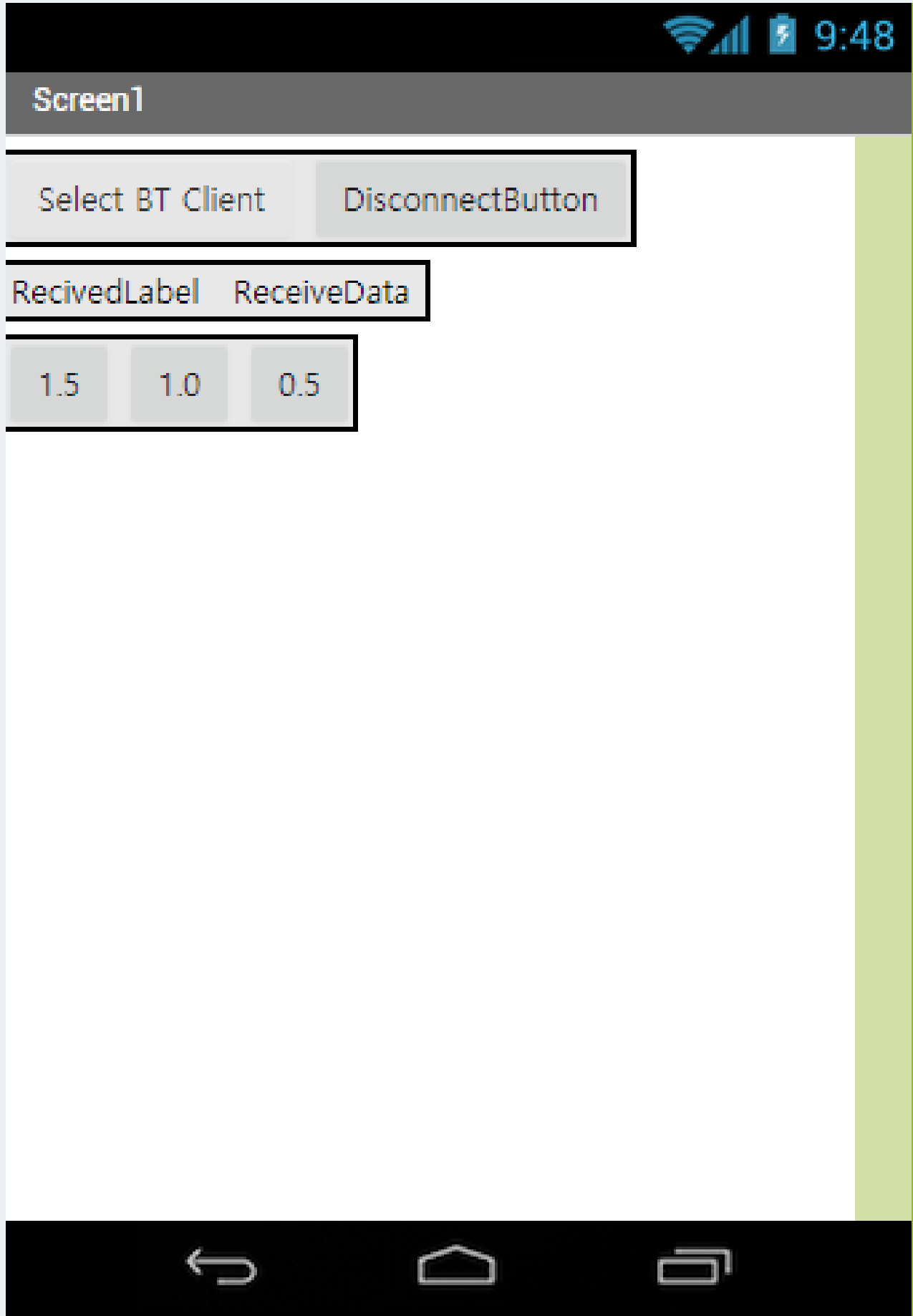
03

## ***Present apperance***



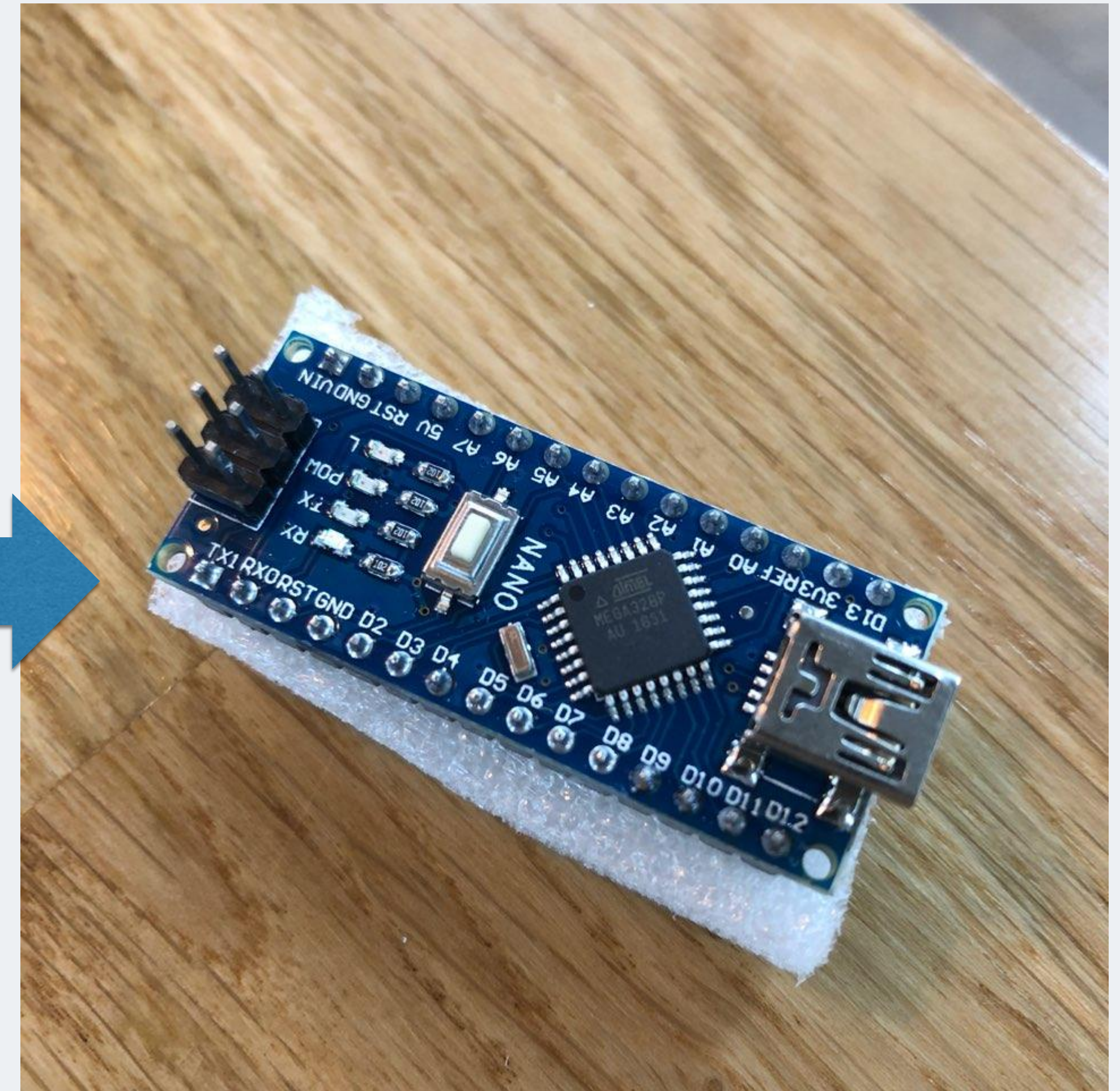
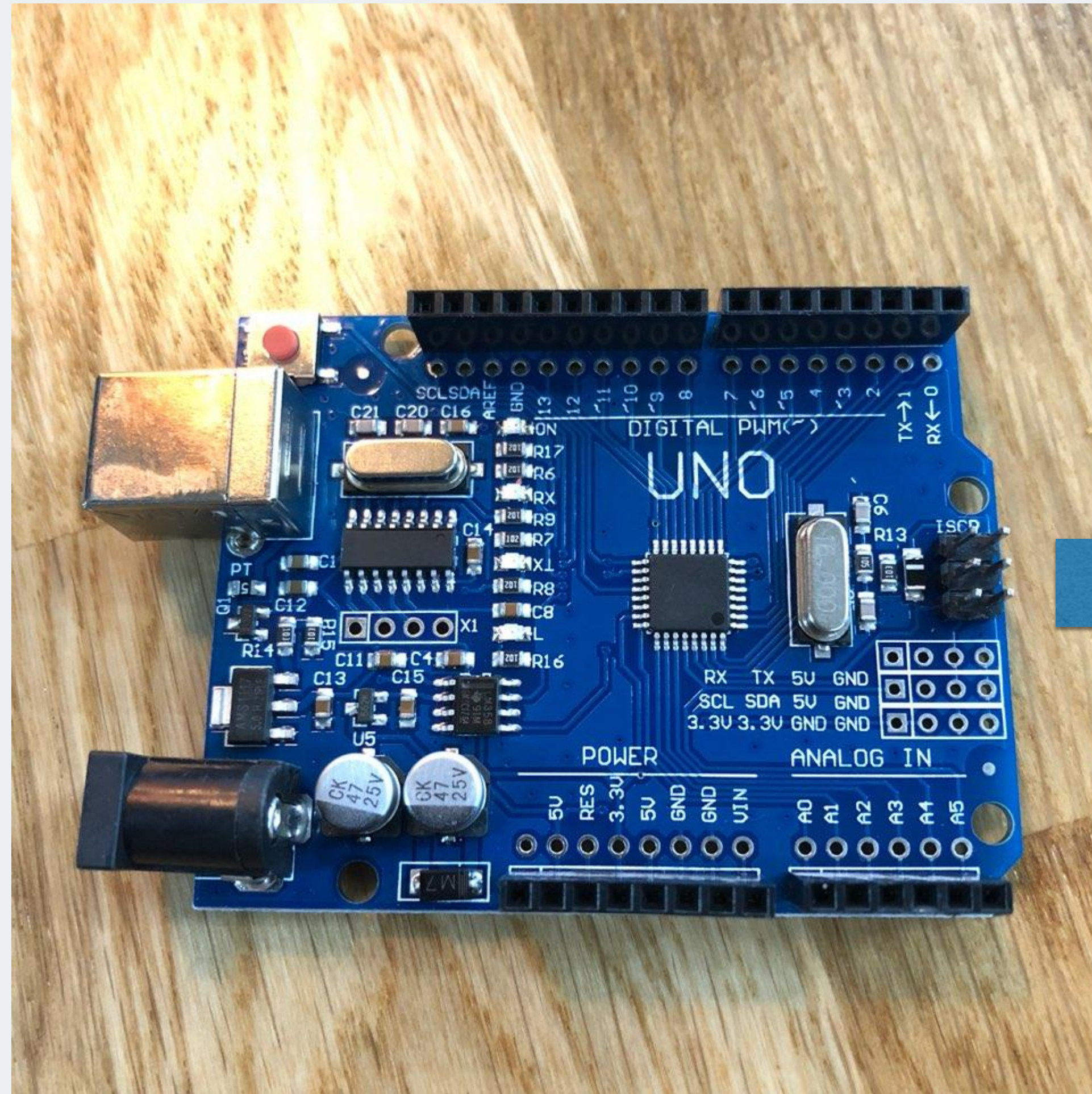


# Application



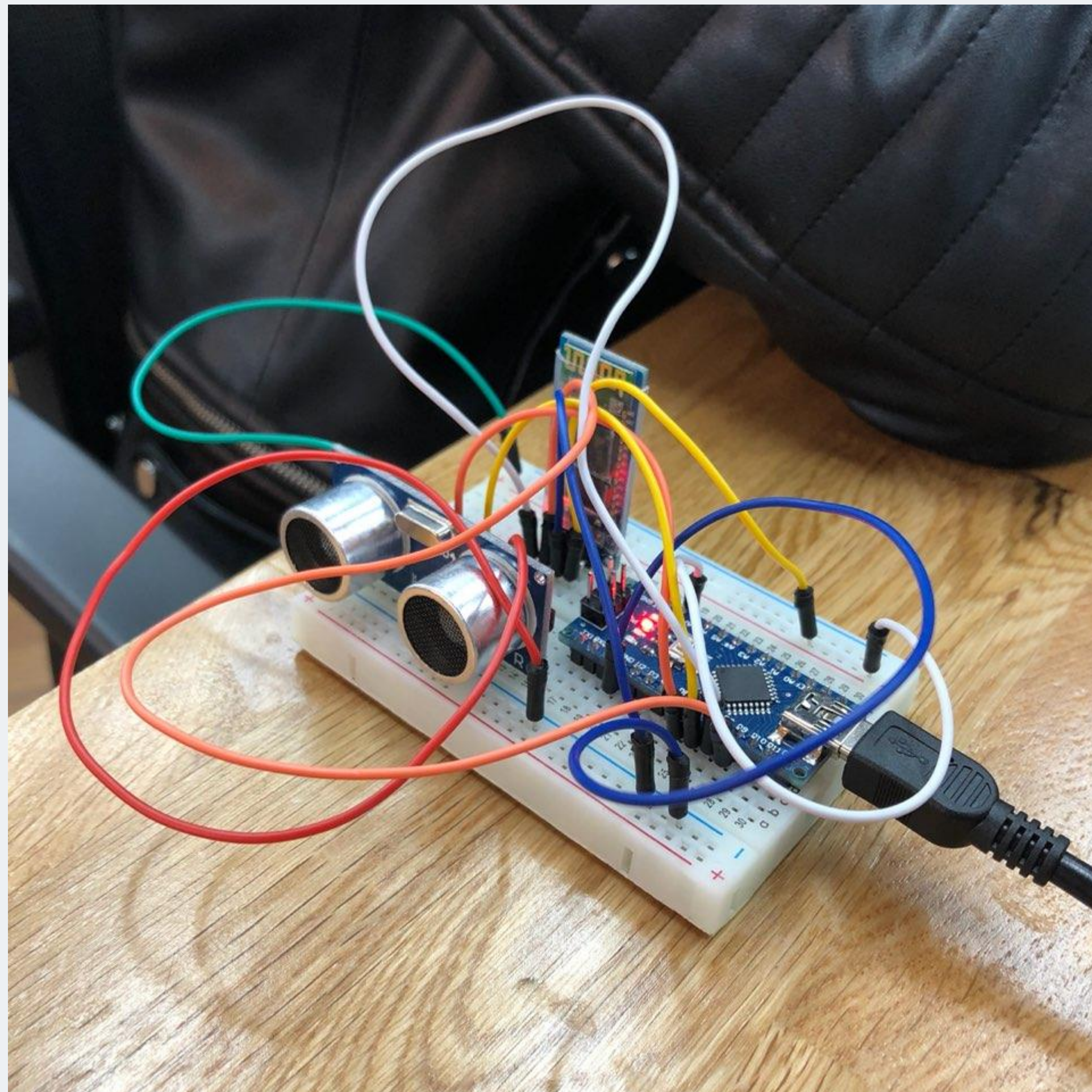


# Arduino





# Bluetooth & Sensor



```
#include <SoftwareSerial.h>

#define BT_RXD 8
#define BT_TXD 9
SoftwareSerial bluetooth(BT_TXD, BT_RXD);

int trigPin = 6;
int echoPin = 7;

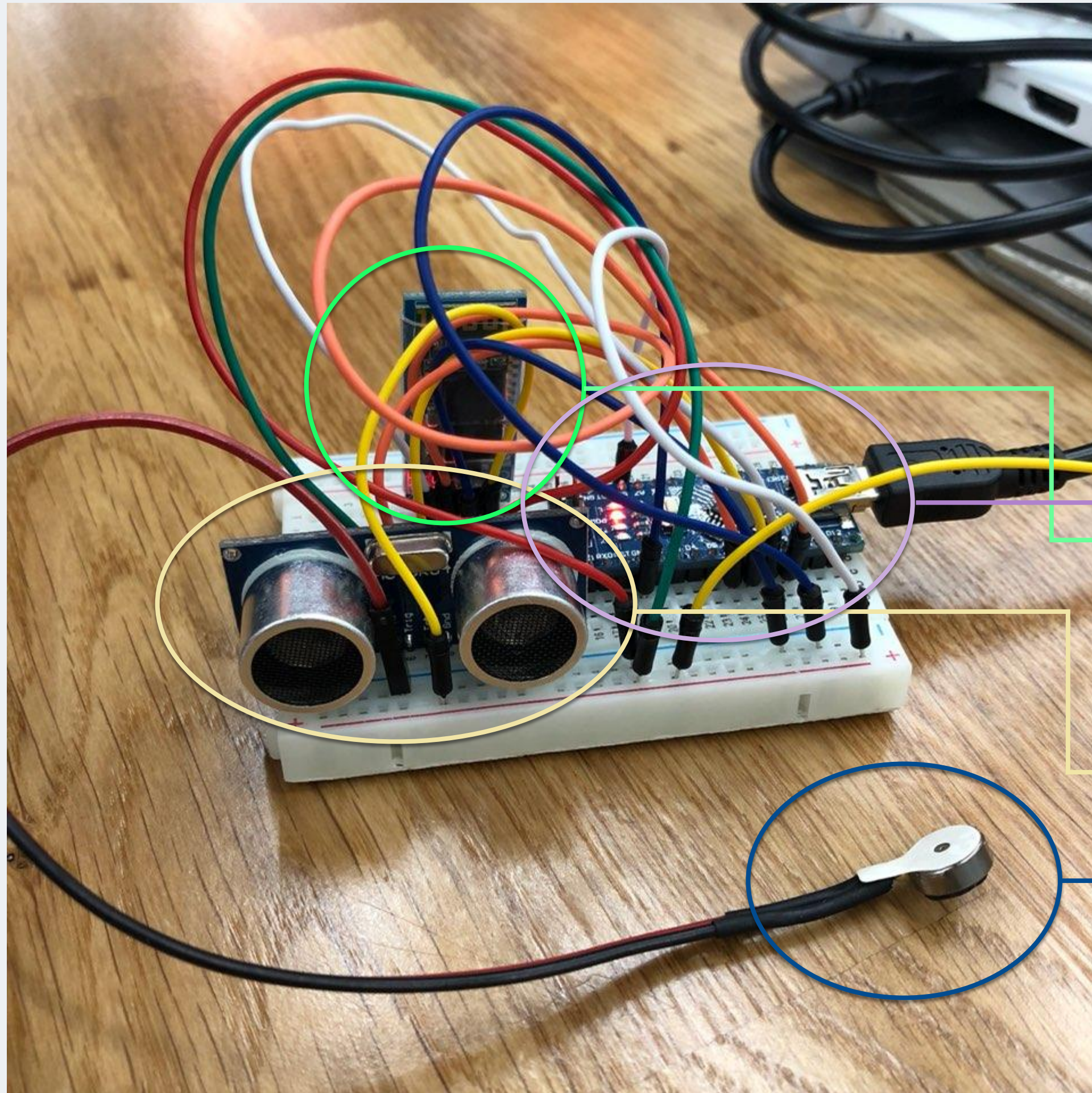
void setup(){
    Serial.begin(9600);           // 시리얼 속도 설정

    bluetooth.begin(9600);

    pinMode(echoPin, INPUT);      // echoPin 입력
    pinMode(trigPin, OUTPUT);     // trigPin 출력
}
```







아두이노 나노

블루투스 모듈

초음파센서

진동센서





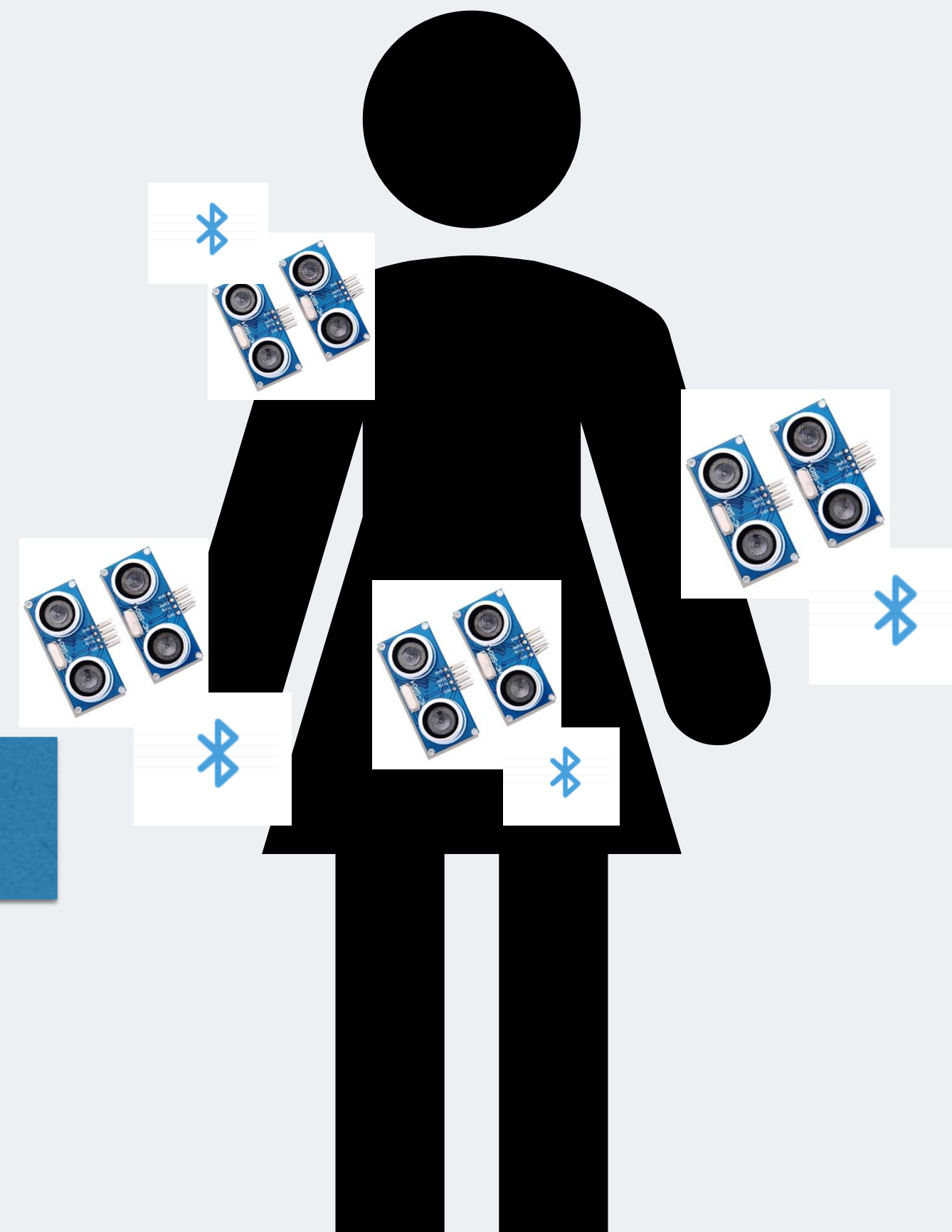


The background features a series of concentric circles in a light gray color. Four small gray dots are positioned on these circles: one on the second circle from the center in the upper-left, one on the third circle in the upper-right, one on the fourth circle in the lower-right, and one on the second circle in the lower-left. A small gray arrow points to the right, located between the second and third circles on the lower-left side.

03

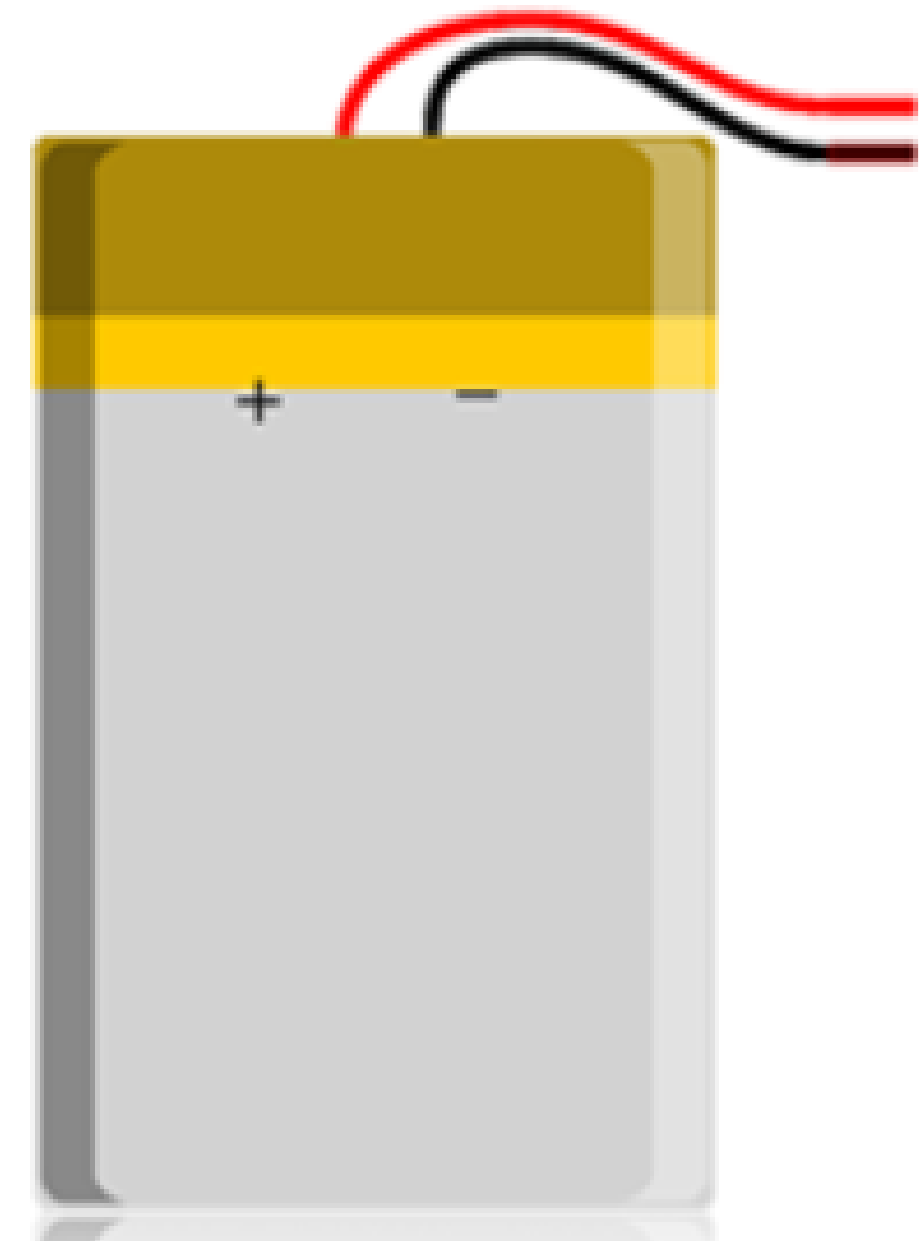
***Development direction***



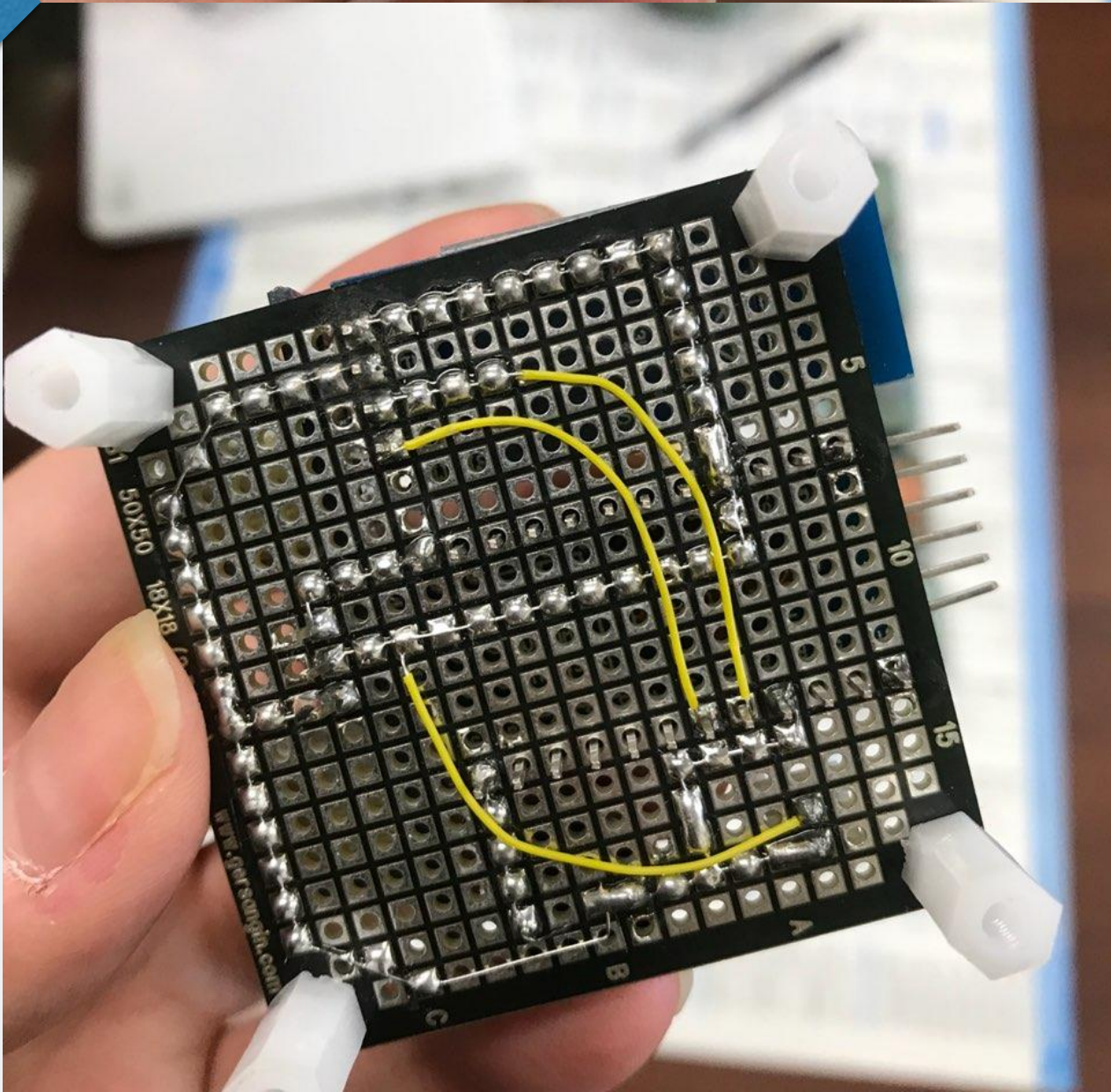
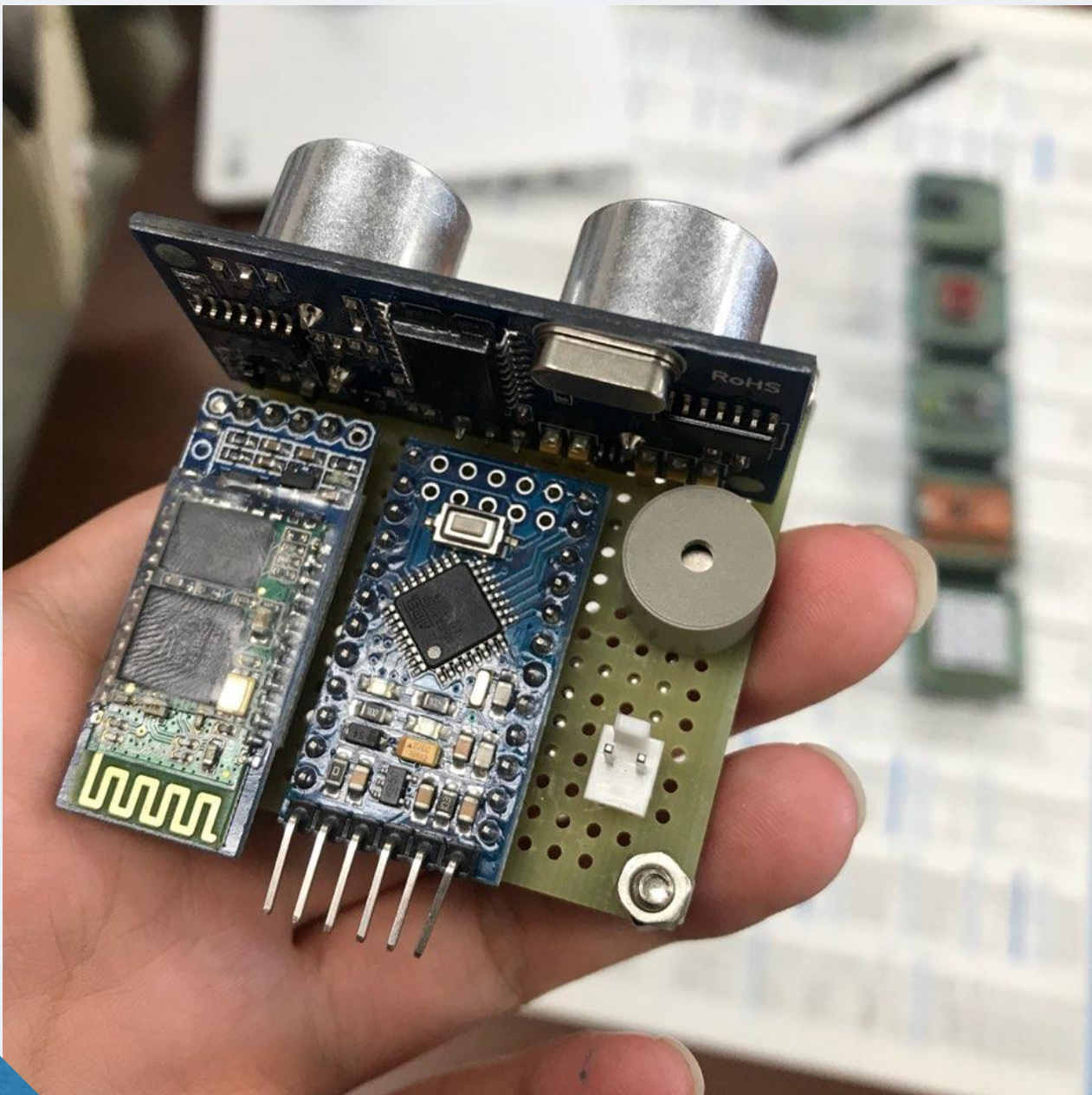
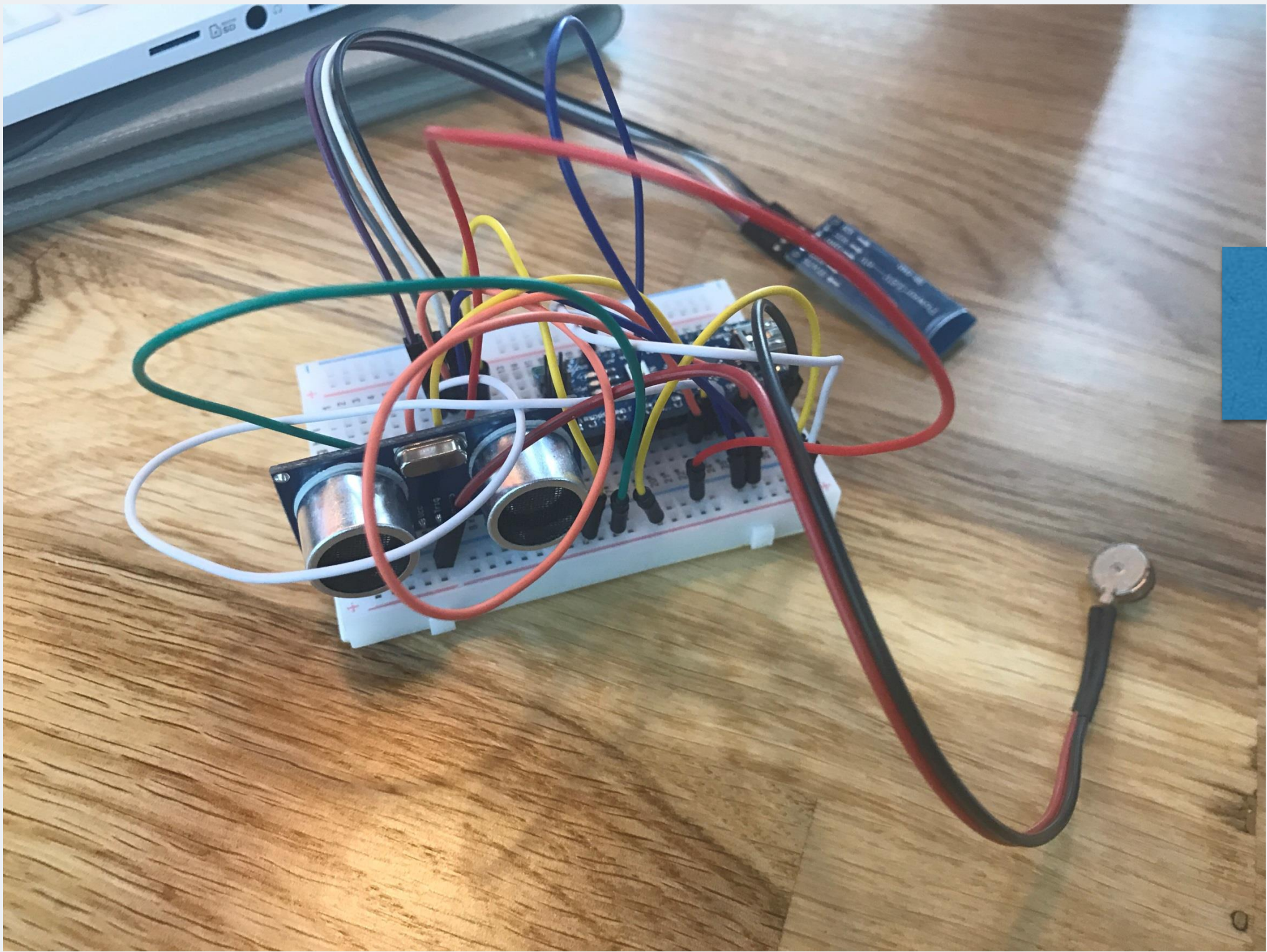




# Optimum Battery













The background features a series of concentric circles in a light gray color. Four small gray dots are positioned on these circles: one on the second circle from the center, one on the third, one on the fourth, and one on the fifth. A small gray arrow points to the right, located between the third and fourth circles.

***Thank You***