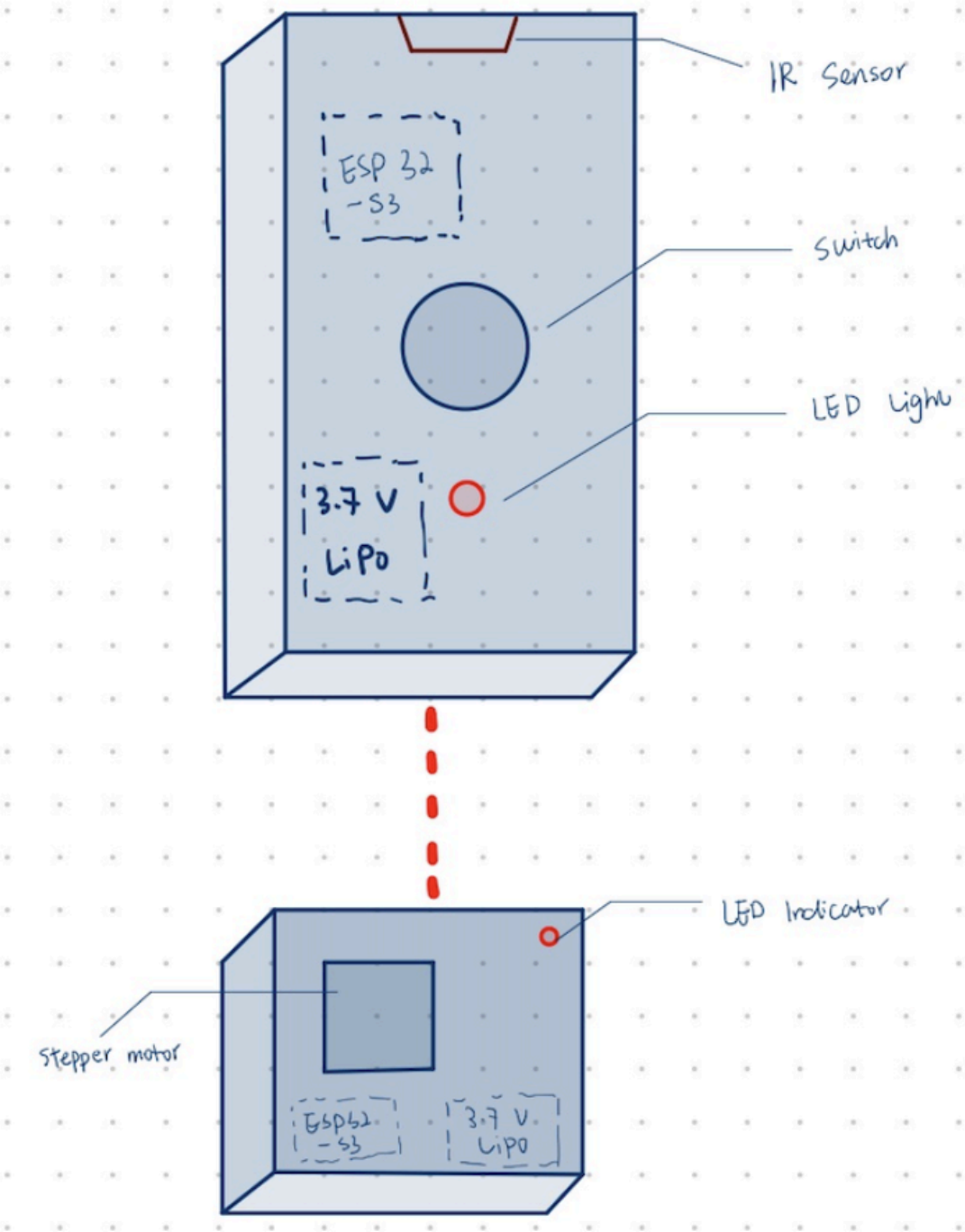

IR Sensor
ESP 32 -S3
Switch
LED Light
3.7 V LiPo
LED Indicator
Stepper motor
ESP32 -S3
3.7 V LiPo

Start

↓

Active proximity Sensor

↓

Measure distance

↓

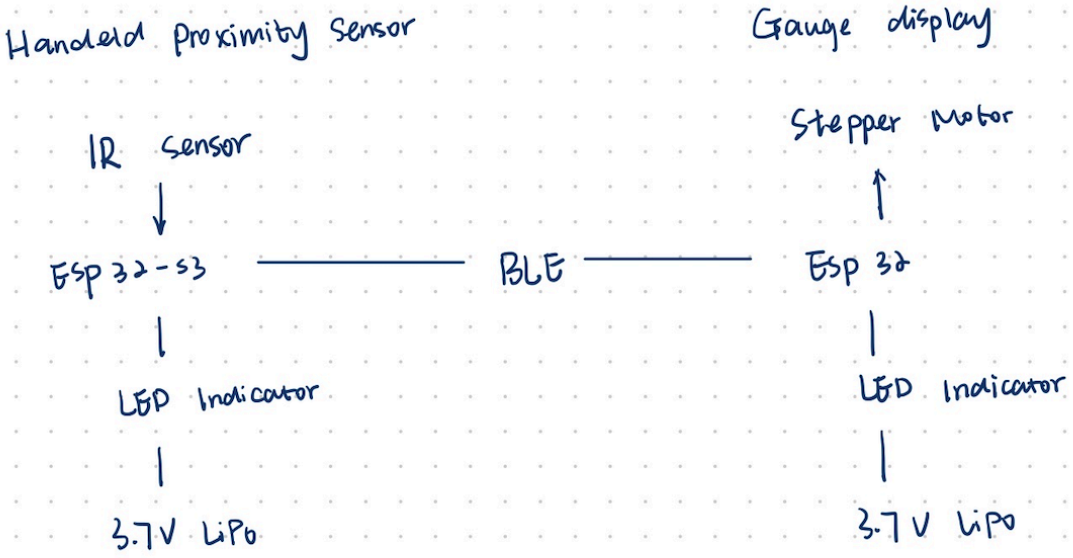
Apply Smoothing / Threshold

↓

Transmit Proximity Data via BLE

↓

Update Gauge Needle & LED

↓

Repeat