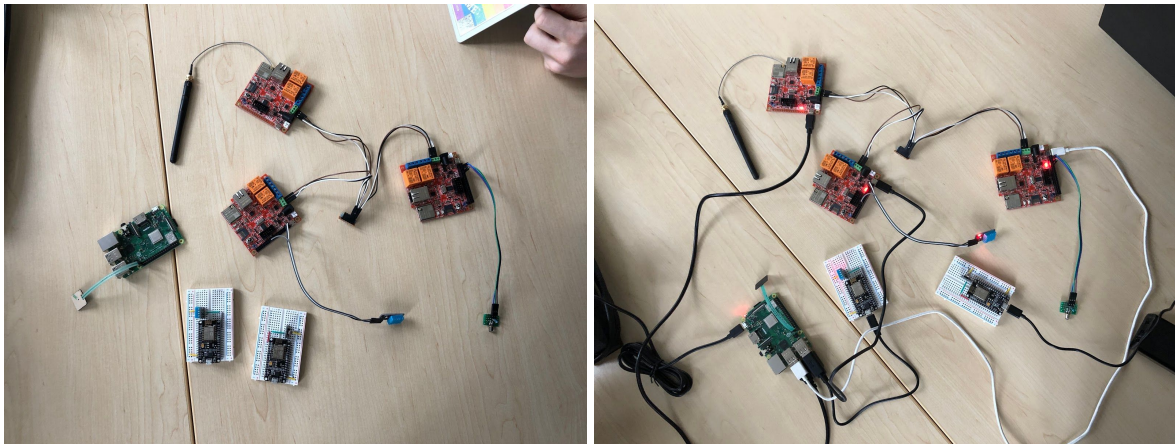# Wiring Guide

- Plug all devices into power using their USB ports.
- Plug in in the master (Raspberry Pi, marked with 0) first.
- You can use the USB Ports of the Pi to power the sensors.
- Communication does not happen via USB.
- Make sure the ESP32 Clients are connected via CAN.
    - Connect the CAN ports via the CAN connector board in parallel (meaning all Pin 1s in one row, alls Pin 2s in another row etc.)
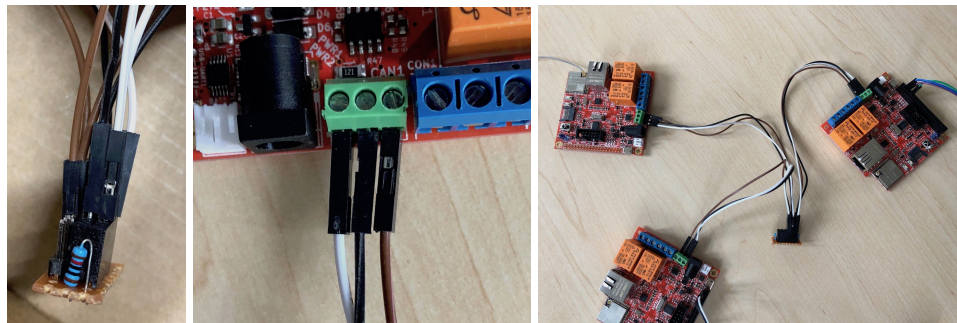

    - Connect the antenna to the Bridge

- Make sure the Sensors are connected to the Slaves
    - ESP32:
        - Bridge 3 (SENSOR_MAX)
            - only antenna and CAN port connected
        - Sensor 4 (SENSOR_PETER)
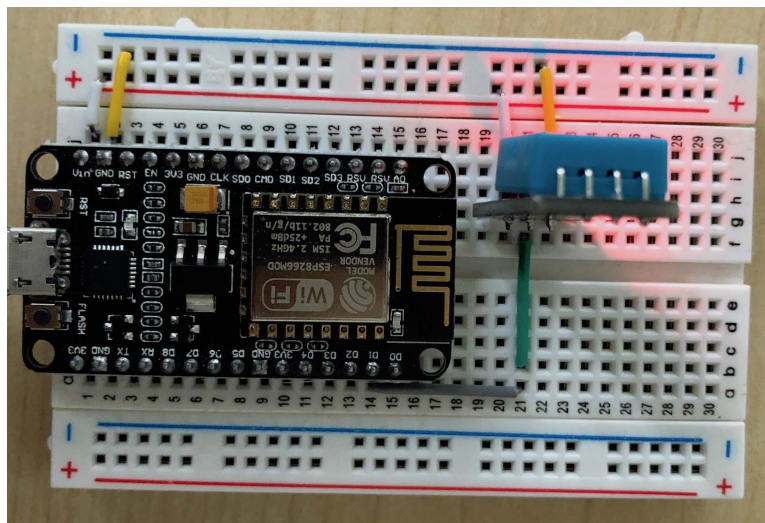   - Brightness Sensor (Phototransistor)
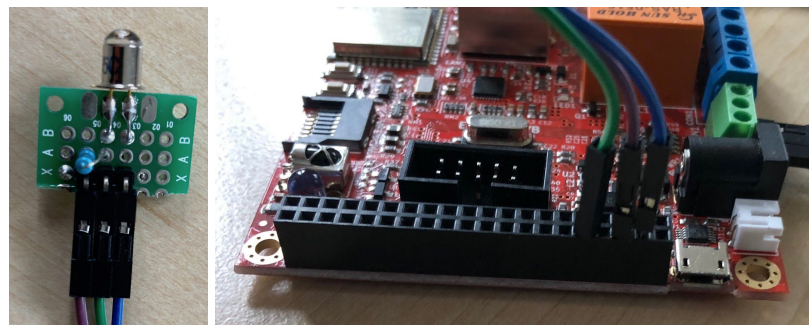
- blue: 3.3V, green: A0, purple: GND
    - Sensor 5 (SENSOR_MARCUWE)
        - Temp/Hum Sensor
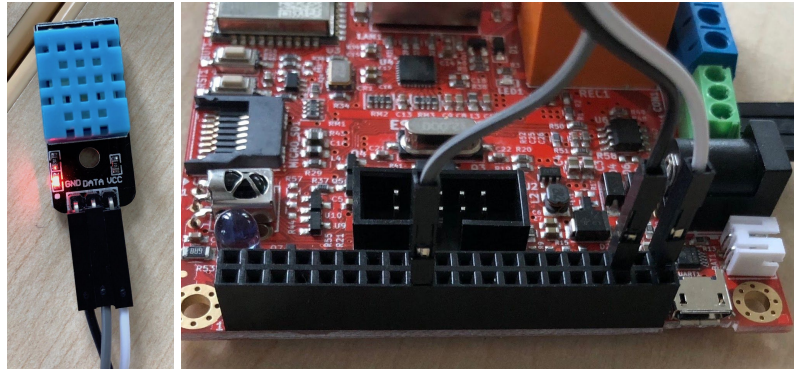
        - black: GND, grey: GPIO16, white: 5V
- ESP8266:
    - Sensor 1 (SENSOR_KALLIOPE)
        - Brightness sensor (Photoresistor)
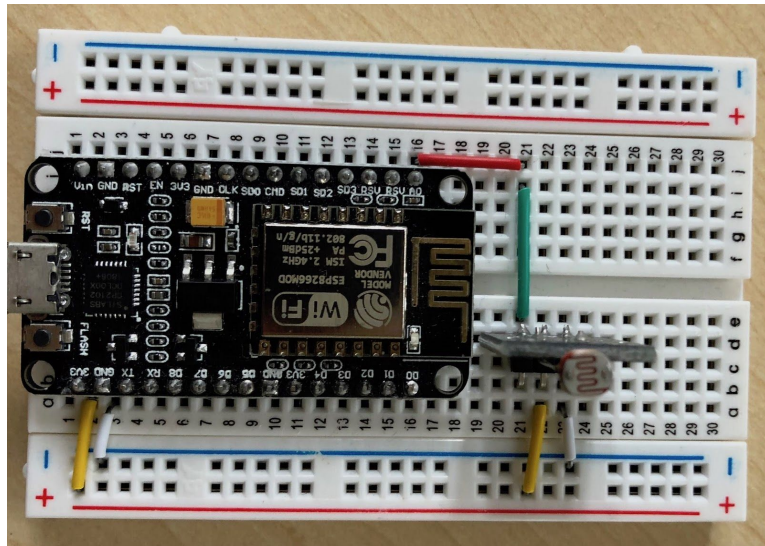
        - S/green: A0, yellow: 3.3V, -/white: GND
    - Sensor 2 (SENSOR_JULIAMUELLER)

- yellow: GND, green-grey / data: D1 (GPIO5), white: 5V
- Connect the button to the Rasperry Pi (GPIO21 / GND - Pin 39/40)