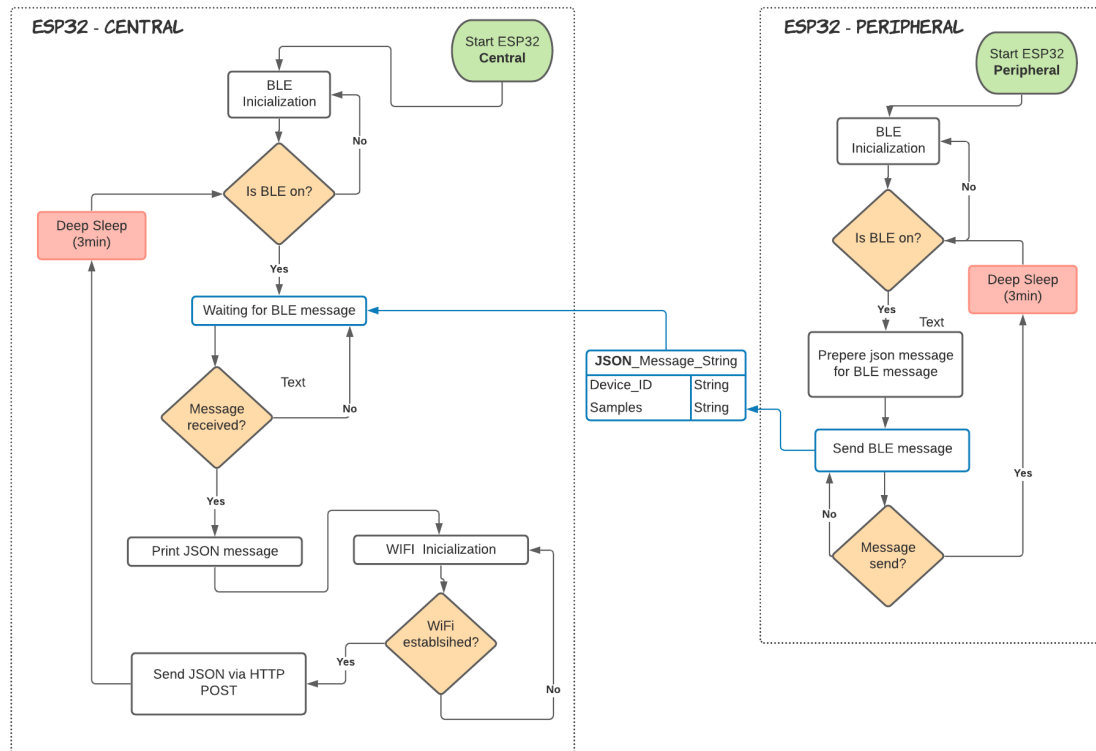


## BLE on EPS32 project for Sebastian Górecki



- Operating devices principle: **Peripheral ESP32 send data to cloud via BLE and ESP32 Central**
- Communication between two ESP32: Bluetooth Low Energy (BLE)
- Communication to cloud: WiFi – HTTP / MQTT
- **Code made in C**, based on **ESP-IDF**
- BLE and WiFi handling code made in separate files .c and .h (preferred: functions run by task in main.c – need knowledge in FreeRTOS)
- Example of string:

```

{"samples": "-2137.00,0.00,23.77,49.67,10.00,0.00,0.00,20.00",
"securityCode": "F88CE0F8-BD9A-41EB-B88F-FFA08FAE22DE",
"location": "0,0",
"deviceId": "1270FEF2-08D5-49E8-8B2B-42E1B4F22188"}
  
```

Description: samples is data with sensors read, location is location of devices, rest to measurement authorisation (data will be provided from my devices, you can use this data to test).

**For discussion:** How to make authorisation via BLE - only our ESP should have ability to connect ESP32 Central. Which protocol do you prefer: MQTT or HTTP?