**SMART AMBULANCE WITH MQTT PROTOCOL**

This project introduces the smart ambulance with mqtt protocol. This project mainly designed to enhance emergency medical services. Developed Health monitoring system for patient and Traffic management system for ambulance using RTOS. Here, we integrate ESP32 microcontroller with sensors like GPS module, MAX30102 heart rate sensor, temperature sensor, and 433MHz RF Tx & Rx module, delivering immediate health updates of patient and ambulance GPS location. The system employs the Message Queuing Telemetry Transport (MQTT) protocol to facilitate efficient communication between the ambulance and the hospital. The use of MQTT ensures reliable and low-latency communication, allowing medical professionals to receive timely updates on the patient's condition. In Traffic management system, when the ambulance is near the traffic light, the traffic light changes from red to green which is intended to ambulance with the help of 433MHz Tx & Rx pair to avoid traffic. We incorporated these functionalities in this project for better enhancement of emergency medical services.