



**Monitored Parameters:**

- ECG Heart Rate (bpm)
- Battery Level (%)
- Raw ECG Signal (optional)
- Temperature
- Fall Detection
- Heartrate (bpm)

**Technologies Used:**

Hardware:

- ESP32 Microcontroller
- AD8232 ECG sensor module
- MLX90614 Temperature
- MAX30102 SpO<sub>2</sub> and Heartrate
- MPU6050 Fall Detection
- Power monitoring circuitry

Software:

- MQTT Protocol
- HiveMQ Cloud
- Telegraf
- InfluxDB v2
- Grafana
- Ubuntu Linux