

STUDY AND DESIGN OF AN INTELLIGENT CHARGER FOR LITHIUM-ION BATTERY

PROJECT DESCRIPTION

This Charger system must:

- Lithium-ion battery charging (the charger must be compatible with the AC 220V network)
- Battery monitoring during charging (Instant current measurement, battery voltage and temperature)
- Measurement and Calculation of SOC and SOH and display on an LCD screen
- Automatic battery detection and isolation when charging operation completes
- Charger control using a cell phone via Bluetooth
- IOT app for charger

PROFILES: ENGINEER



2 Trainees



Electrical engineering, power electronics



6 months



STM32, ESP32, Electronique de puissance, Altium Designer, LTspice