

Project Proposal

EN2160 - Electronic Design Realization



Members

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Expandable Battery Management System Module(BMS)

1. Project Overview:

Objective: Develop a modular and expandable(for higher no of batteries) Battery Management System that can efficiently monitor and manage rechargeable batteries in various applications.

2. Key Features:

- Scalable architecture for different battery pack sizes.
- Real-time monitoring of individual cell voltages and temperatures.
- Overcharge and over-discharge protection.
- Communication interfaces (Bluetooth, Wi-Fi, etc.).
- User-friendly interface for configuration and monitoring.

3.Benefits:

- Adaptable to various battery configurations.
- Improved safety and lifespan of battery packs.
- Enhanced monitoring capabilities for efficient maintenance.

The related circuits will be divided between the 2 teams.