

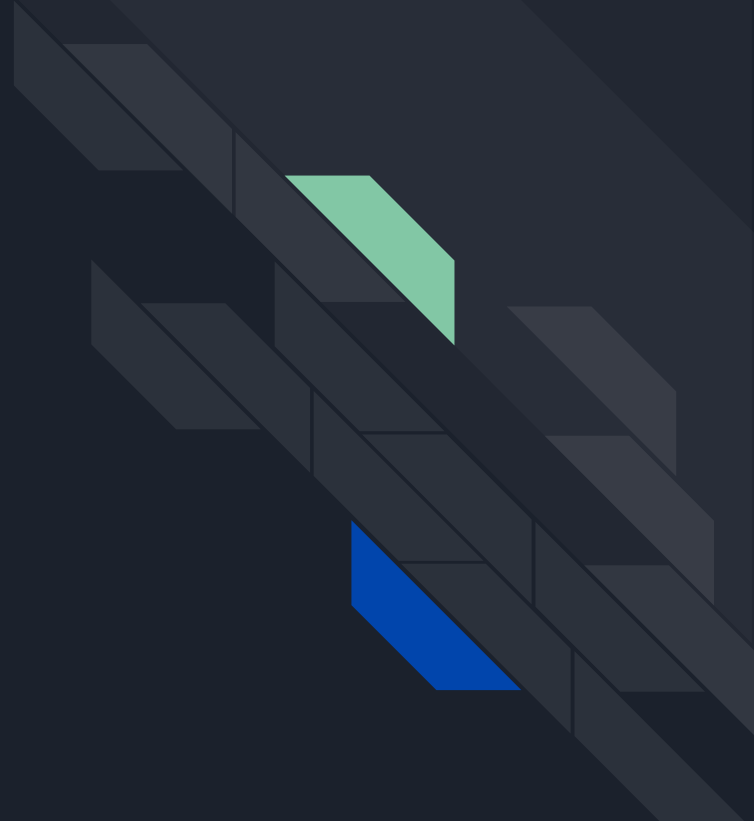


# LiBaaS BMS

(PROTOTYPE STAGE)

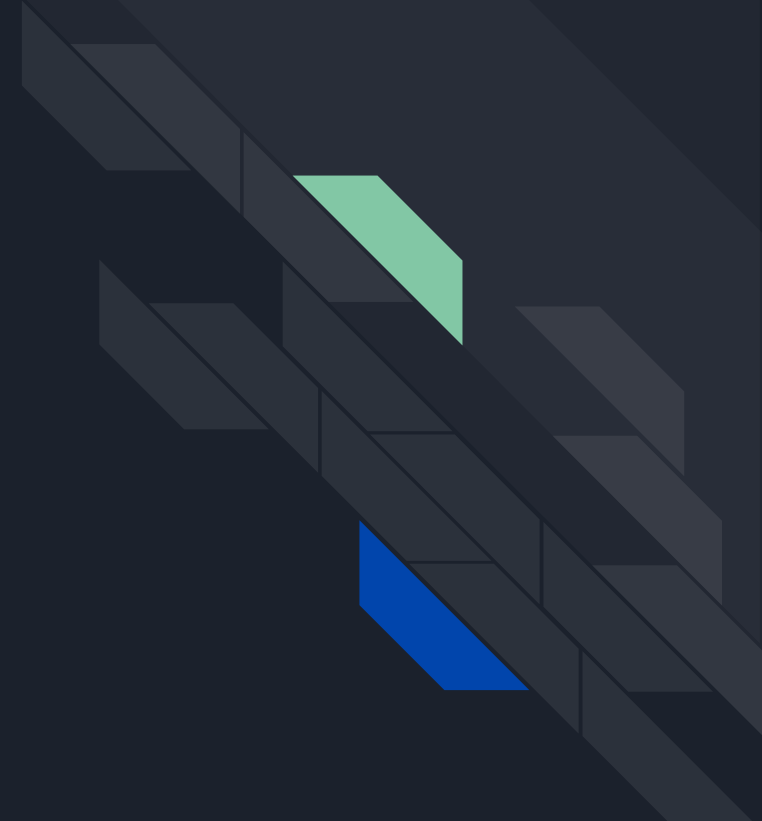
# CONTENTS

- PROJECT PLAN
- DETAILED PROJECT PLAN
- TOTAL DEVELOPMENT COST
- REQUIREMENTS TO KICK-OFF THE PROJECT



# PROJECT PLAN

1. DESIGN AND REQUIREMENT PHASE
2. PROTOTYPING PHASE
3. BOARD BUILD-UP PHASE
4. TESTING PHASE





# DESIGN / REQUIREMENT PHASE

1. FINALIZING THE REQUIREMENTS OF EMBEDDED SYSTEM
2. FINALIZING THE SPECIFICATIONS & REQUIREMENTS OF THE BMS
3. SELECTION OF THE BMS BASED ON REQUIREMENTS
4. FINALIZATION OF SOFTWARE INTERFACE & ALGORITHM
5. FINALIZATION OF HARDWARE REQUIREMENT
6. SYSTEM BLOCK DIAGRAM

TENTATIVE TIMELINE : 132 – 135 Working Hours



# PROTOTYPING PHASE

1. POC OF THE SYSTEM ON GENERAL PURPOSE BOARD
2. HARDWARE SCHEMATIC DESIGN & BOM FINALIZATION
3. LAYOUT DESIGN
4. DELIVERY OF THE 3<sup>rd</sup> PARTY BMS & PROTO BATTERY PACK FOR TESTING

TENTATIVE TIMELINE : 156 – 162 Working Hours



# BOARD UP PHASE

1. INTEGRATION OF THE BMS WITH BATTERY PACK
2. HARDWARE & SOFTWARE INTEGRATION OF THE EMBEDDED SYSTEM

TENTATIVE TIMELINE : 220 – 250 Working Hours



# TESTING PHASE

1. CUT-OFF TESTING & CREDIT SYSTEM TESTING WITH THE BMS
2. UI TESTING
3. UNIT TESTING ON THE SYSTEM
4. RELIABILITY TESTING & MAINTENANCE TESTING (126)

TENTATIVE TIMELINE : 378 – 380 Working Hours



# PLAN OF ACTION

**Development phase**  
~1 Month

**Board up phase**  
~1.5 Months

**Prototyping phase**  
~1 Months

**Testing phase**  
~3.5 Months

~7 Months for development  
of 1<sup>st</sup> phase of the system





# Total Development Cost

## Development Fees – 2000 per Hour

1. DEVELOPMENT / REQUIREMENT PHASE : ~132 – 135 Hrs
2. PROTOTYPING PHASE : ~156 – 162 Hrs
3. BOARD BUILD-UP PHASE : ~220 – 250 Hrs
4. TESTING PHASE: ~378 - 380 Hrs

\*Excluding Hardware Procurement, PCB Manufacturing, PCB assembly & Intercity Travels (if required)



# Project Kick-off requirements

1. Starting with the Design phase, after receiving 25% Upfront cost of the Design phase.
2. Proceeding work will start after the submission of Development phase deliverables & payment of commercial fees.



Thank you!