

BaTtery Management System

Progress report

Embedded Systems Project

2025

**CONTENTS**

[1 INtroduction 6](#_Toc188945138)

[1.1 Be Sure to Read the Writing Guidelines 6](#_Toc188945139)

[1.2 Examples of Figures and Tables 6](#_Toc188945140)

[1.3 Use of AI in This Thesis 8](#_Toc188945141)

[2 Layout 10](#_Toc188945142)

[2.1 Margins, Spacing and Font Sizes 10](#_Toc188945143)

[2.2 Use of Styles and Contents Page 10](#_Toc188945144)

[2.3 References and the List of References 11](#_Toc188945145)

[References 12](#_Toc188945146)

[Appendices 13](#_Toc188945147)

[APPENDIX 1. What is an appendix 13](#_Toc188945148)

[APPENDIX 2. Titling and numbering of appendices 13](#_Toc188945149)

# Introduction

This report is focused on providing the team’s progress on making the Battery Management System project.

## Battery Management System

Battery Management System, or BMS for short, is a system that, at its very basic, protects a battery or batteries from different electrical hazards like short circuits, cell overcharge, and overcurrent, as well as providing valuable information on the connected device; Voltage, current, and temperature measurements.

## Progress

So far we have compiled a number of source for the research and learning purposes, as well as made many different drafts and partially implemented them in Ltspice. Unfortunatly, due to strict deadlines in place as per the time needed for the manufacturing and ordering of Printed Circuit Boards.

# Project plans

## Schematic and Printed Circuit Board

As mentioned before a strict schedule puts limitations on what the team can accomplish, instead focusing on finishing the simulations a hard decision to pivot straight into the designing the PCB was made.

## Component choice

After the PCB is complete and is ready to be ordered, will be the time to order the component used to build the final project.