Dataforth - LiPo Crew

Project manager	Jace Jenkins
Project dates	Sep 21, 2020 - Apr 10, 2021
Completion	92%
Tasks	61
Resources	4

Tasks

Name	Begin date	End date
Research: Lit Review	9/21/20	10/2/20
Requirements	9/29/20	10/14/20
Requirments Document	9/29/20	10/12/20
Requirements Finished	10/12/20	10/12/20
Architecture Draft#1	10/6/20	10/13/20
Architecture Final Draft	10/14/20	10/14/20
Design Analysis	10/15/20	11/27/20
Lvel 2 architecture	10/15/20	11/13/20
Prelimary Software/Coding	10/26/20	11/27/20
Preliminary Circuit Design	10/26/20	11/27/20
IND. Prototypes	10/30/20	11/9/20
Full Desing layout	11/25/20	11/25/20
Team Design presentation	11/2/20	11/13/20
Winter Break	11/25/20	12/8/20
Prototyping/Control Testing	12/8/20	3/26/21
Proto Stage 1	12/8/20	1/8/21
Circuit Design	12/8/20	12/25/20
Software/Coding	12/8/20	12/25/20
Integrated Solution	12/9/20	12/11/20
Integrated Level 3 Architecture	12/9/20	12/11/20
Circuit Analysis	12/9/20	12/11/20
Discrete Solution	12/9/20	1/8/21
Discrete Level 2 Architecure	12/9/20	12/9/20
Discrete Level 3 Architecture	12/9/20	12/9/20
Circuit Analysis	12/10/20	12/17/20

Tasks

Name	Begin date	End date
Circuit Simulation	12/18/20	1/1/21
ORDER PARTS	1/4/21	1/8/21
Christmas Break	12/25/20	12/28/20
Proto Stage 2	1/18/21	2/23/21
Software/Coding	1/18/21	2/23/21
ADC	1/18/21	1/25/21
Cell Balancing Alg	1/26/21	2/8/21
Thermocouples	2/9/21	2/15/21
Interrupts/Safety	2/16/21	2/19/21
Functional Software Prototype	2/24/21	2/24/21
Final Circuit design & Sim	1/18/21	2/12/21
Cell Charging	1/18/21	1/25/21
Battery Protection	1/18/21	1/25/21
Dual 5v rail and connections	1/26/21	2/2/21
Progress/Status presentaion	2/3/21	2/12/21
Functional simulated prototype	2/22/21	2/22/21
Final: Stage 3	2/1/21	3/19/21
Vector Board/Physical Prototype	2/1/21	3/5/21
Testing Presentation	3/5/21	3/5/21
Full hardware system integration	3/5/21	3/5/21
Testing	2/26/21	3/19/21
PCB	2/26/21	3/8/21
Unit step-by-step test	3/10/21	3/10/21
Unit matrix test	3/11/21	3/12/21
CC/CV	3/11/21	3/12/21
Integration Test	3/17/21	3/19/21
Complete Integration	3/17/21	3/26/21
Full Product Cover	3/17/21	3/23/21
PCB Complete Integration	3/17/21	3/26/21

Tasks

Name	Begin date	End date
Test results Presentation	3/26/21	3/26/21
Documentation	1/1/21	4/9/21
Website	1/1/21	3/19/21
Abstract	3/1/21	3/19/21
Project Poster	3/10/21	3/31/21
Video Demonstration	3/25/21	3/31/21
User Manual	3/1/21	4/9/21

Resources

Name	Default role
Jonathan Ciulla	no specific role
Jace Jenkins	project manager
Mana Santiago	no specific role
Luis Camargo	no specific role

Gantt Chart

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Circuit Analysis	12/9/20	12/11/20
Discrete Solution	12/9/20	1/8/21
Discrete Level 2 Ar...	12/9/20	12/9/20
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