

## Dataforth - LiPo Crew

<http://>

Project manager

Jace Jenkins

Project dates

Sep 21, 2020 - Mar 20, 2021

Completion

45%

Tasks

47

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 |
| Preliminary 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    | 2/23/21  |
| 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                    | 1/11/21    | 2/23/21  |
| Software/Coding                  | 1/11/21    | 2/23/21  |
| ADC                              | 1/11/21    | 1/18/21  |
| Cell Balancing Alg               | 1/19/21    | 2/1/21   |
| Thermocouples                    | 2/2/21     | 2/8/21   |
| Interrupts/Safety                | 2/9/21     | 2/12/21  |
| Battery Chemistry/User Interface | 2/15/21    | 2/22/21  |
| Functional Software Prototype    | 2/24/21    | 2/24/21  |
| Final Circuit design & Sim       | 1/11/21    | 2/2/21   |
| Cell Balancing                   | 1/11/21    | 1/18/21  |
| Cell Charging                    | 1/19/21    | 1/26/21  |
| Battery Protection               | 1/18/21    | 1/25/21  |
| 5v/3.3V/ADC Interface            | 1/26/21    | 2/2/21   |
| Vector Board/Physical Prototype  | 2/1/21     | 2/12/21  |
| PCB                              | 2/15/21    | 2/19/21  |
| Functional prototype             | 2/22/21    | 2/22/21  |
| Documentation                    | 1/1/21     | 3/19/21  |
| User Manual                      | 2/22/21    | 3/19/21  |
| Website                          | 1/1/21     | 3/19/21  |

## Resources

4

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

## Gantt Chart



