

Team: 18262: EVT BMS

Engineer: Greg Malanga

Entering Phase: Detailed Design Review

What was did I plan for the system design review, and what did I get done?

1. I planned on supervising hardware design and making sure everything gets done. I trained the team with Altium and was available to answer questions throughout the phase. I helped everyone with designing the hardware and provided constructive feedback.
2. I planned on double checking everyone's work. I worked at this throughout phase II and caught a few errors and made a lot of practical observations and suggestions.
3. I planned on working on the BMS chip test plan. I wrote a preliminary plan and helped Jake get the hardware set up at the beginning, but I focused more on the hardware design than the execution of the test plan.
4. I planned on working on the discharge array; I did all the calculations and simulations on the circuit and spec'd out all the components and made the schematic in Altium.
5. I planned on implementing safety system, and I did. I designed the pack voltage circuit (safety oriented design), fusing on the discharge array, and helped other members make safety oriented design decision.
6. I planned on helping with schematic integration. I made sure component choices did not create any compatibility issues.
7. I did all the simulations for the temperature sense circuit and helped Will design the circuit in Altium
8. I helped Murali with the SOC chip circuit design and made sure the components would work for our design.
9. I did all the LTC6811, Slave low-voltage supply, and discharge array schematics in Altium.
10. I made the projects and organized them in Altium
11. I made updates to our BMS block diagram
12. I made the sub-system diagrams for both boards.
13. I designed and simulated the low voltage supply for the slave board
14. I created the BOM spreadsheet and added most of the components to it

What do I plan on doing to ensure that Team P18262 has a successful Phase (Detailed Design) review?

1. I will go through the Slave schematics to double check my and everyone's work and verify all design decisions with datasheets
2. I will continue to help other members with Altium
3. I will be in charge of designing the Slave PCB, and ensure that all manufacturing files for all hardware is generated correctly.
4. I will help with adding the rest of the components to the BOM and put together a Digikey/Mouser order.

You will answer these three questions when you submit at the end of Phase (Detailed Design Review).

1. What did I actually do?
2. What did I learn?
3. What do I plan to do to ensure my team succeeds in Phase 4?