

Team: 18262_____

Engineer: William McCaffrey

Entering Phase: Detailed Design Review

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

1. I created and simulated a temperature sensor. I used both a reference resistor and a constant current source to find the best setup for the temperature circuit. The reference resistor was found to be the rest and the circuit was setup to be like the datasheet for what the LTC6811 calls for.
2. For the connector research, I performed a cost analysis of multiple conenctor brands recomended by the customer to find the best fit for our project. This was done by comparing pin-outs, custom configurations, and connector size.
3. I contacted an industry professional about the mechanical feasibility of the thermistor setup. This is to ensure the best setup for the thermistors, as well as providing valuable feedback for the mechanical team. This will be a issue that both teams are dealing with, so getting feedback from an outside professional early on will help us deal with any issues early on.
4. I ordered seveal connectors for initial testing for the EVT wiring team
5. All schematics created for connectors and temperature sensing. This schematics have been reviewed by the customer and initial changes have been implemented base on the feedback received.
6. Updated EDGE

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

1. Perform board Layout of the temperature sensing circuit
2. Perform board layout of the connector circuit
3. Order all parts for circuit creation starting in phase 4

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

1. Are all parts ordered for MSD 2
2. Are the layouts created and peer reivewed
3. Is EDGE ready for review?