

Phase 2 Plan

What were the outcomes of the prior phase?

1. What did I plan to do?

As this was the first phase, there was no plan made in advance for the phase. However, throughout the phase I made plans to create use scenario charts and read about what P18433 accomplished on this project last year.

2. What did I actually do?

I created the use scenario charts, available on the Problem Definition page of our team's EDGE site. I also was able to read about P18433's project to better understand where they left off.

3. What did I learn? How were plan and reality different?

I learned about what is left for our team to accomplish on this project after P18433's work. I also learned the importance of proper documentation, as P18433's documentation of their project made it easier to understand what our goals need to be and to understand what realistic goals for our project may be.

Team level goal for next phase

Our team's goal for the second phase is to break down the design of the melter into subsystems so that we can better understand how we can provide the necessary functionality for the melter. This will also help us determine more specifically where we are picking up in the design from P18433.

What do I plan on doing to ensure that my team has a successful review at the end of the next phase?

1. Research if 220V AC outlets can be installed in buildings in El Sauce (1 hour, week 4)
2. Research and benchmark heating systems more in depth (2 hours, week 4)
3. Meet with team and see if we can find a location to test P18433's device (2 hours, week 4)
4. Research control systems for the heating system (2 hours, week 5)
5. Meet with Deryck to go over heating system and controls research (1 hour, week 5)
6. Determine minimum power usage from heaters to melt plastic after estimated losses from heat transfer are taken into consideration (4-6 hours, week 6, meet with mechanical engineer teammates to assist with this)