

Team: P19433

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Department: Mechanical Engineering

What were the outcomes of the Phase 7?

1. What did I plan to do?

- a. Submit Imagine proposal (2/22/19, with MSD Team)
- b. Complete design and machining for new mold (5 hours, 2/26/19, with Josie and Gary)
- c. Order all remaining materials for melter (3 hours, 2/28/19, with MSD Team)
- d. Complete changes to frame: jack support, mold, attach plates (6 hours, 3/5/19, with Josie and John)
- e. Start test procedures (5 hours, 3/7/19, with MSD Team)
- f. Continue working on technical paper and Imagine poster (4 hours, 3/22/19, with MSD Team)

2. What did I actually do?

During this phase, I was able to lead the Imagine proposal process and complete the required information for the event. I also was heavily involved with design and re-building of the frame and jack components. Josie and I worked with Gary during and outside of class to work on drilling, milling, and welding various parts. I also continued working on the technical paper and updated modules of the Edge website. I continuously kept in contact with customers during this phase to update them on the status of the project.

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

Completing these changes took more time than expected since Gary was our main resource and was not always available. At times, it was difficult to progress in the project without the frame since the jack support is essential for testing the heaters and electrical components. The Team continued working on other areas of the project when possible, but it was difficult to really move forward.

Team level goal for Phase 8:

Our goal for the next phase is to complete the wiring of all heaters and other electrical components. Test Procedures will then be implemented and adjustments to the design will be made, if needed, along with installing the vent for testing. The door materials will be purchased and assembled, and insulation will be installed with washers and bolts. The Team will continue working on the technical paper and Imagine poster to receive feedback before the deadlines. The Team hopes to have a fully functioning machine with recycled sheets during this phase.

What do I plan on doing to ensure that my team has a successful review at the end of Phase 8?

1. Complete machining of IR sensor attachment (2 hours, 4/4/19, with Josie)
2. Purchase material and assist with assembly of door (4 hours, 4/4/19, with Josie and John)
3. Obtain hardware for attaching insulation to frame and assemble (5 hours, 4/11/19, with Josie and John)
4. Start test procedures (8+ hours, 4/9/19, with MSD Team)
5. Continue working on technical paper and Imagine poster for peer review (4 hours, 4/18/19, with MSD Team)