

Team: P20762 Engineer: Caleb Wheelock

What were the outcomes of the prior phase?

1. What did I plan to do?

Ensure all tasks were aligned between the group to ensure a smooth subsystem test and build phase. Manage risks and transfer them to problem-solving as they occur. Assist in the fabrication of the system. Ensure accuracy and completeness in all testing. Maintenance of schedule and budget to ensure the triple constraint remains satisfied. Successfully manage the TP4: Solid Filter test plan.

2. What did I actually do?

Completed all fabrication with only minor obstacles faced. Properly managed problem solving and continue to follow-up on results. Maintained risk management throughout the phase. Completed all designated parts of team deliverables as well as ensure all team members maintained the project schedule for their deliverables. Continued to oversee budget management and ensure that all materials were procured and accounted for. Ensured smooth operation of TP4 and documented all results.

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

I was able to accomplish more than I expected in terms of the MSD deliverables. Thanks to proper planning prior to fabrication, the process went very smoothly with minimal challenges faced.

Team level goal for the next phase

- The full architecture of the system will be complete. Plants and water will also be added to the system.
- Nitrate cycling will have progressed to the tank and the effectiveness of our planned aeration method with the buckets will be tested in relation to how well it maintains optimal water conditions.
- Sensor testing will be expanded to the tank to ensure appropriate O2 levels are being maintained.
- User interface testing will commence to confirm the NIOSH lifting equation as well as confirm our farmer interaction per day requirement of only 30 minutes.
- Deliverables will continue to be updated as progress continues. This includes: Setup/Instruction guide, Poster and Imagine Display, Technical Paper, Lightning Talk, Informational Workshop.

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

1. I will ensure that all risks are assessed and managed as needed (Continuous)
2. Ensure all aspects of architecture are complete by spring break (03/06)
3. I will ensure the schedule is reflective of all MSD deliverables as well as project tasks hours as well as maintain the scorecard with individual team member deliverables (02/14)

4. I will ensure written work for the technical paper, poster, and setup guide are done in a timely fashion (02/14)
5. I will continue assessing problems and updating problem management and use it to control risks as they become problems (Continuous)
6. Begin outlines of lightning talk and Imagine Display prior to spring break (03/06)
7. Ensure Invention details are clarified with the group (02/27)

What is standing in my way of meeting my next phase goals?

Uncertainty over what is the best way to hold our plants in our plant bed. Will be conducting research and finalize before spring break.