

Team: P20762 Engineer: Kesh Bhattarai

What were the outcomes of the prior phase?

1. What did I plan to do?
 - A. Ensure all the tasks are met on time for the review.
 - B. Ensure all the CAD Designs are updated to match the structure
 - C. Complete environmental and structural testing
 - D. Finish the first draft of technical report

2. What did I actually do?

Completed the CAD design to match the structure. Successfully completed the structural and environmental test plan. Completed building the system with the team. Continued to assist other team members.

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

There are things we as a team finished ahead of schedule which puts us in a really good spot. I learned to constantly change the CAD design per our subject matter expert's inputs and our research.

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 continue to support my team members on whatever they need help with
2. Ensure all aspects of architecture are complete by spring break (03/06)
3. I will ensure that CAD design is up to date (continues)
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 with my test plans and will ensure they are completed in a timely manner.

6. Begin preparing for imagine RIT and the next phase

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

As spring break approaches, we have yet to finalize the nitrate testing. It is still not clear on how long it takes for us to get perfectly balanced water so we can start putting the fish in the system.