

What were the outcomes of the prior phase?

1. What did I plan to do?
 - a. Combine all team paper draft sections into one document to submit
 - b. Review the final draft paper and make edits
 - c. Make updates to draft poster
 - d. Test the power system with load on the motors
 - e. Test the power system with gripper and load on the servos
 - f. Measure the heat of the electronics
2. What did I actually do?
 - a. I worked a lot on the poster and paper.
 - b. I also headed up a lot of the documentation and delegating tasks.
 - c. Testing was completed with the motors and grippers.
 - d. The heat of the electronics was measured
3. What did I learn? How were the plan and reality different?
 - a. I did a lot more project manager work than I expected to be doing. I ended up doing most of the documentation and delegating tasks to team members who were not helping with any documentation. I didn't expect to do this but had to step up when no one else on the team would.
 - b. The team got very burnt out and we ended up getting very behind schedule. Additionally, a servo was shorted. We should have made sure to plan more time into the schedule and money in the budget for problems that would occur.
 - c. There wasn't as much time for testing as needed due to the mechanical parts of the device falling behind schedule. We needed to have a better schedule and hold people more accountable when their tasks were blocking others.

Team level goal for next phase if there was one

1. Automatic tool pickup and drop off
2. More portable device - add handles/carrying case
3. Smoother belt/gripper motion
4. Easier access to electronics & increased client repairability

Team level recommendations for a follow-on team

1. Implement an automatic tool pickup and drop off with the gripper
2. Make the device more portable to move from classroom to classroom
3. Better tune the motors/belt system to increase the movement of the utensil
4. Increase the repairability of the device for the client so the device could last longer
5. Create other tops for the joystick to increase the accessibility of the device

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

1. Source new hardware and spacers for the electronics covers to make them easier to for the client to remove – 30 minutes
2. Elongate some of the wiring in the electronics enclosure to allow for easier removal of the electronics bottom cover – 1.5 hours
3. Help research and design a tool pickup/drop-off station – 5 hours
4. Help test the automatic gripper – 10 hours
5. Update confluence and the paper with the new results – 3 hours

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

1. More tuning with the motors
2. Would need to submit a budget increase