

What were the outcomes of the prior phase?

1. What did I plan to do?
 - a. Order Buttons and final power components
 - b. Finalized electronics placement in box and wiring plan
 - c. Wire and test the full power system – all buck converters, and AC/DC converter
 - d. Test Integration of motors with power system
 - e. Test Integration of servos with power system
 - f. Mount power components to bottom of electronics enclosure
 - g. Wire components
 - h. Work on draft poster
 - i. Write draft of power section for paper
2. What did I actually do?
 - a. Order Buttons and final power components
 - b. Finalized electronics placement in box and wiring plan
 - c. Wire and test the full power system – all buck converters, and AC/DC converter
 - d. Test Integration of motors with power system with no load
 - e. Test Integration of servos with power system with no load
 - f. Mount power components to bottom of electronics enclosure
 - g. Wire components
 - h. Work on draft poster
 - i. Write draft of power section for paper

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

I completed all the tasks I committed to completing; however we were not able to test the power system with the system load on either the servos or the motors because the mechanical mounting of the motors and gripper assembly got behind schedule. We were able to kind of simulate a load by holding onto the shaft of the motors. I learned the importance of adapting and communicating with the team on what's blocking you.

Team level goal for next phase

- Gripper is tested
- Motors can move on frame
- Enclosures are made
- Drawing can be made without automatic tool change
- Draft paper done
- Draft video done
- Documentation written

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

1. Combine all team paper draft sections into one document to submit (11/17, 1 hour)
2. Review the final draft paper and make edits (11/27, 2 hours)
3. Make updates to draft poster (11/27, 3 hours)
4. Test the power system with load on the motors with Andrew & David (11/4, 2 hours)
5. Test the power system with gripper and load on the servos with Andrew and David (11/8, 3 hours)
6. Test the heat of the electronics (11/10, 30 minutes)

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

1. Each team member completing the section of the draft paper the committed to completing so we can review and edit the paper
2. Receiving feedback on the draft poster so I can make the necessary changes
3. Team needs to divide up the documentation and updates to confluence to ensure no team member does all the documentation
4. To fully test the power system
 - a. we need to have the motors and belts mounted to the frame to accurately test with load of the device
 - b. we also need to have the servos mounted to the gripper to ensure the correct servos are receiving the correct voltage in their accepted range and test with the load
5. To test the heat of the electronics we need to be able to run the servos and motors with load