

What were the outcomes of the prior phase?

1. What did I plan to do?
 - Help source input devices and parts that might not be found at approved vendors.
 - Continue learning Eagle.
 - Finalize BOM for power system.
 - Design power distribution schematic.
 - Continue with prototyping for schematic cup/tool array, need to prototype or preliminarily print a gripper prototype.
 - Work with John and Josh to determine where the power components can go on the device.
 - Work with Andrew to ensure the battery sourced for the student input will work with the input and Bluetooth sourced.
2. What did I actually do?
 - Help source input devices and parts. Order and received some components.
 - Continue learning Eagle.
 - Finalize BOM for power system.
 - Sourced battery for student input.
3. What did I learn? How were plan and reality different?
 - The end of the semester was very hectic, and I learned we needed a more defined schedule. We also needed more communication between team members to
 - I did not finish the power schematic yet, but plan to complete it before MSD II.
 - I did not end up helping with the tool cup array prototype and design. John and Dylan focused on that. I devoted my time to purchasing and the power subsystem.
 - We decided on a material for the electronics box but didn't figure out a layout or dimensions yet.

Team level goal for next phase

- Review and Finalized the BOM
- Order final components
- Submit Budget Increase Request
- 3D Print Gripper and Cup to test interaction
- Start Assembly
- Test the Motors
- Gather the components we need for testing

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

1. Submit a budget increase request (2 hours), need finalized BOM.
2. Design power distribution schematic (4 hours)
3. Order all necessary components (5 hours), need team to determine what should be ordered and what can wait.
4. Work with Andrew to determine a electrical box and how the components can fit inside it (6 hours), need to determined a few layout options and optimize for airflow, wiring space and footprint.
5. Finish test plans for power system (2 hours)
6. Test power components individually per test plans (3 hours)

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

- Need to order and receive parts.
- Need to collect datasheets in a standardized location and tabulate dimensions.