Team: P21068 **Engineer: Allison Morgan**

What were the outcomes of the prior phase?

1. What did I plan to do?
    - Create preliminary BOM template.
    - Determine ordering procedure with the team.
    - Determine power requirements and create battery/power management block diagram.
    - Determine which schematic and PCB software we will use as a team.
    - Design power distribution schematic
    - Identify potential components, such as microcontrollers, motors, and input devices.
2. What did I actually do?
    - Create preliminary BOM template and determined ordering procedure with the team.
    - Determined the power requirements and created block diagram for power system.
    - Helped choose to use Eagle as schematic and PCB Software.
    - Helped identify input devices.
3. What did I learn? How were plan and reality different?
    - I learned to plan the tasks and focus on dependencies to determine when task should be completed.
    - I didn't end up making the power schematic yet. It was pushed back due to waiting on other tasks.
    - I also ended up helping with the tool cup array prototype and design.

Team level goal for next phase

- Finalized design of system.
- Finalized bill of materials.
- User interface components ordered.
- Test Plans written.

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

1. Help source input devices and parts that might not be found at approved vendors (3 hours)
2. Continue learning Eagle (3 hours)

3. Finalize BOM for power system (4 hours)
4. Design power distribution schematic (4 hours, 5/3) need to finish sourcing all power components first.
5. Continue with prototyping for schematic cup/tool array, need to prototype or preliminarily print a gripper prototype.
6. Work with John and Josh to determine where the power components can go on the device (4/29) need to finish sourcing all power components first.
7. Work with Andrew to ensure the battery sourced for the student input will work with the input and Bluetooth sourced.

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

- Need to do some integration work with how the gripper will interact with the tool cup.