

What were the outcomes of the prior phase?

1. What did I plan to do?
 - a. Review and update test plans
 - b. Review and update risk management
 - c. Finalize BOM
2. What did I actually do?
 - a. Updated power test plans to be more complete
 - b. Updated power schematic with new power supply (found in surplus)
 - c. Hooked up power supply to ensure it worked
 - d. Went through BOM with team to finalize as much as possible
3. What did I learn? How were plan and reality different?
 - a. The BOM won't be finalized until the end of the project. It can be mostly finalized, but some parts are going to change after tests are completed.
 - b. The Gantt chart really wasn't working for our team, so we decided to try using Trello to better track tasks and stay on schedule.

Team level goal for next phase

- All subsystem components are ordered
- Start subsystem tests
- User Interface Subsystem
 - Buttons can be read
 - Have UI designed
 - Joystick can be read
- Control Subsystem
 - Move motors specific amount
 - Move Servos
- Motor Subsystem
 - Have motors moving
- Mechanical Subsystem
 - Have all parts
 - Parts assembled
- Power Subsystem
 - power tests
 - obtain all parts
- Belt Subsystem
 - have all parts
 - test motors with belts to determine step distance
 - test motors with belts to determine if second belt is needed
- Gripper Subsystem
 - Pick objects up
 - cup printed

- have gripper printed

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

1. Wire and confirm output of AC/DC converter with Dylan (1 hour, 9/2)
2. Review fusing plan with Dylan and Andrew (2 hours, 9/2)
3. Test servo power/strength against different voltages in its range (2 hours, 9/8)
4. Order power, belt, framework parts (3 hours, 9/8)
5. Plan electronics placement in box and wiring plan with Dylan and Andrew (3 hours, 9/9)
6. Test all Buck converters with power supply to ensure expected voltage output and operation (1 hour, 9/14)
7. Test a buck converter with the voltage from the AC/DC converter to ensure expected voltage output (1 hour, 9/16)
8. Wire and test the full power system – all buck converters, fuses, and AC/DC converter with Dylan (4 hours, 9/21)

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

- Need to order and receive buck converters
- Need testing to be completed with Motors to measure how much current we expect them to draw to help complete the fusing plan
- Need testing to be completed with Servos to measure how much current we expect them to draw to help complete the fusing plan