

What were the outcomes of the prior phase?

1. What did I plan to do?
 - a. I planned to work on microcontroller-related testing and manage testing and development on other subsystems. I also hoped to help plan the integration testing phase and address requirements that will be needed to successfully prepare a functional build.
2. What did I actually do?
 - a. I tested multiple I/O subsystems and planned for microcontroller integration with the motors. Much work was also done on the PCB and main control box. The test plan was followed to ensure requirements are met, and documentation of this phase's tasks was completed.
3. What did I learn? How were the plan and reality different?
 - a. The plan generally matched the real outcome, though the realities of organizing and managing tests meant some desired progress wasn't made. Lessons from this phase will be applied to have a more productive and more successful integration testing phase.

Team level goal for next phase

The team will continue to test our subsystems and work on putting different subsystems together, also testing the different combinations of subsystems as we build. We will also work on getting PCBs fabricated and testing those with other system components as soon as possible to make sure they work as expected and make any necessary changes to circuit designs as soon as possible.

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

1. Keep up with documentation on Confluence (throughout)
2. Test motor system with Arduino (~3 hrs)
3. Think about internal component placement (~2 hrs)
4. Work with team on PCB circuit layouts (~3 hrs)
5. Start blocking out main program code (~5 hours)

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

Time availability - other class work preventing enough time to be allocated to design work

Remote work potential - distractions, loss of focus due to the pandemic situation

Lack of prototyping - due to the situation, prototyping can't be done as effectively, which raises some risks and restricts our ability to move ahead with implementation

Test performance - at this stage, issues in testing can have a significant impact on our ability to move forward with our plans