

3 Week Plan – Phase III

Team: P19305 Engineer: Deirdre Arcand

What were the outcomes of the prior phase?

1. What did I plan to do?
 - a. Meet with MECE professor to review design concepts
 - b. Meet with Erik, Connor, and Tanvir to work on Mechanical Components/Design
 - c. Conduct individual research and strengthen understanding of Erik's design concept for collapsible board.
 - d. Update confluence Problem Definition/System design pages for readability/clarity.
 - e. Meet with whole team at least once in the next two weeks.
2. What did I do?
 - a. Meet with Erik, Connor, and Tanvir to work on Mechanical Components/Design
 - b. Conduct individual research and strengthen understanding of Erik's design concept for collapsible board.
 - c. Meet with whole team at least once in the next two weeks.
 - d. Meet with guides to discuss concerns and planning.
3. What did I learn? How were plan and reality different?
 - a. I learned how the folding component of the board functions based off discussion with Erik and Connor.
 - b. I learned a lot based off discussions with our guides about Risk Management.

Team level goal for next phase

- Start to integrate the mechanical subsystems with the electrical components.
- Work to have a complete BOM with part numbers, quantity and price clearly defined.
- Find additional grant or funding opportunities.
- Decide which materials can be purchased prior to summer break (long lead times).
- Plan out who will be responsible for what portion of MSD II.
- Make a clearly defined document comparing our engineering requirements with our detailed design.
- Design a functional unibody deck as a testbed and then later build a second one that incorporates the folding mechanism to prevent bottlenecks in workflow.

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

1. Consistently meet with team in class and schedule meetings outside of class to ensure staying on track. (10 hours)
2. Review Gantt chart and plan individual time accordingly. (1 hour)
3. Complete draft of final BOM. (4 hours)

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4. Review Solidworks drawings and suggest changes or point out errors as needed. (2 hours)
5. Explore methods for funding and potential grant opportunities. (2 hours)