

What were the outcomes of the prior phase?

This phase I planned to learn about the project background and learn the customer's needs and wants. From there I planned to develop a solid understanding of the problem and learn about the problem definition and other phases of MSD I.

In the phase, I learned about the project and wrote the project summary page from my understanding after the customer interview. Helped with customer and engineering requirements based off the customer interview; however, they may need to be edited due to more/different wants from the customer. I also helped with other team documents such as the team norms and values and selecting team roles.

Throughout this phase, I learned that the problem definition and customer requirements may change as more customer needs are expressed and information gathered. I also learned it's helpful and efficient for a document owner to create/update a document offline and review it as a team during the meeting, instead of collaborating on every document.

Team level goal for next phase

A list of all functions and subfunctions completed, a solid understanding of current solutions, a concept that exceeds current solutions, a flowchart of the system.

Well written documentation, up-to-date Gantt chart and risk management.

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

1. Continue benchmarking current robotic art drawing devices and current accessible art devices. This needs to be completed before the concept is chosen to help determine feasibility of different concepts (4 hours, 2/18)
2. Research different input devices, and create a decision matrix (2 hours, 2/25)
3. Determine power requirements and can create battery/power management block diagram. Cannot be completed until concepts have been brainstormed (4 hours, 3/4)
4. Update risk assessment based on chosen concepts. Cannot be completed until the concept is chosen (2 hours, 3/9)
5. Identify potential components, such as microcontroller, motors, and input devices. Needs to be completed after functional decomposition (3 hours, 3/2, maybe with David or Andrew)

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

After our Problem Definition review, we are most likely need to update our CRs and ERs, before starting the functional decomposition. We need to review individual plans as a team and update the Gantt schedule to be more detailed for the next phase.