

Project Deliverable H: **Prototype III and Customer Feedback**

GNG 1103 – Engineering Design

Faculty of Engineering – University of Ottawa

Objective:

Develop your third prototype. Get customer feedback on your prototype.

Instructions:

1. Develop a prototype which will be used to achieve the objectives your team has set out in the plan created in the last deliverable (i.e. you need to answer the “why”, “what” and “when” of prototyping).
 1. Remember: a prototype is not normal work on your project, it is something that has a smaller, targeted objective with specific tests and measurable results.
2. Carefully document your prototyping test plan, analysis and your results (including detailed images of your prototype).
3. You must gather feedback and comments on your ideas and prototype from potential clients/users that you have sought out and identified on your own and/or your actual client. It is now after the third client meeting so be resourceful to find other users who can give you feedback, however it can be as easy as asking your friends and family a few questions.
4. If applicable, update your target specifications, detailed design and BOM after tests are completed and analyzed.

Since this will be your team’s third prototype, your justifications and reasoning for this prototype should include a short explanation of your results from your previous prototypes and how this third prototype continues the development of your solution. This third prototype should be a fully functional version of your solution (i.e. a comprehensive prototype). Keeping in mind the total course budget of \$100 or \$50, get creative in order to improve your results. It does NOT need to be the version you would actually sell.

Again, it is strongly recommended that you start early. Keep in mind that this prototype should be comprehensive and will require a significant amount of time to complete.

Start thinking about the information you will need for the user manual (deliverable K). You should be able to start the documentation of your final prototype as you go through this deliverable.

Task Plan Update:

1. Update your Trello task board to include any changes in estimated task duration, missing tasks, task responsibilities, or details, based on your better understanding of the project or based on feedback that you have received from your PM/TA.
2. Include more detailed sub-tasks for the tasks that will need to be completed over the next few weeks.
 - Important note: It should be possible for ONE person to complete each identified task or sub-task in the allotted time. The allotted time should also be *reasonable*, based on the task owner's availability. Everyone should be doing their fair share of the work.
3. Verify and update the task start dates and end dates for each task, based on your project progress.
4. Ensure that you have taken into account each team member's *actual* availability over the next two weeks, as well as significant events, such as particularly high course loads, exams or travel, which might be going to limit actual project work progress.
5. For *each* person in your group, it should be possible to determine:
 - What was completed last week (i.e. "**Completed**" tasks),
 - What will be done next (i.e. "**In Progress**" tasks)
 - If tasks are going to be put "**On Hold**" or "**Cancelled**" altogether
6. Any and all group "Issues" should be discussed and dealt with, ideally with the assistance of your Project Manager (PM). This should happen during **each** of your lab sessions or can happen earlier, using your defined communication methods. As already explained, it is essential to keep your PM/TA "*in the loop*" throughout the term. It is usually *not* a good idea to ignore conflicts between team members. Instead, you should deal with them in a constructive way.

Submission:

Each team (***only one person from each team***) must submit a PDF copy of this deliverable by uploading the file as an attachment into BrightSpace.

Due Date:

See BrightSpace.