

Project Deliverable G: **Prototype II and Customer Feedback**

GNG 1103 – Engineering Design

Faculty of Engineering – University of Ottawa

Objective:

Devise a test plan and develop your second prototype. Get customer feedback on your prototype.

Instructions:

Teams will outline a prototyping test plan based on the template provided in “Lecture 11 – Prototyping Test Plan” and develop a prototype which will be used to achieve the objectives your team has set out in this plan (i.e. you need to answer the “why”, “what” and “when” of prototyping). Typical objectives include communicating and getting feedback for ideas, verifying feasibility, analysing critical subsystems or system integration or reducing risk and uncertainty. You must also define a stopping criteria which will allow you to end the test once you are satisfied that you have achieved your testing objectives. Be very clear about what you are trying to measure and define an acceptable fidelity based on the objectives of your prototype.

Since this will be your team’s second prototype, your justifications and reasoning for this prototype should include a short explanation of your results from your previous prototype and how this second prototype continues the development of your solution. This second prototype should be of a critical (or *the* most critical) subsystem, in order to ensure that your design will work (keeping in mind the total course budget of \$100). Get creative in order to improve your results. An analytical, numerical or experimental model should also be included. Finally, 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.

Carefully document your prototyping test plan, modeling techniques and results (including detailed images of your prototype), as well as the feedback and comments you have gathered. Again, it is strongly recommended that you start early, as prototyping takes a significant amount of time. You only have one week to complete this prototype, but keep in mind that this prototype can integrate into a more comprehensive prototype later.

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.