

## Project Deliverable C: **Design Criteria and Target Specifications**

### GNG 1103 – Engineering Design

Faculty of Engineering – University of Ottawa

#### **Objective:**

Define a list of prioritized design criteria, do benchmarking and determine target specifications which can be used in the development of your final solution.

#### **Instructions:**

Based on the team's list of interpreted needs, teams will define a list of prioritized design criteria, including functional and non-functional requirements, as well as constraints (and metrics, where appropriate). Teams will perform benchmarking (using solutions that satisfy one or many of the interpreted needs) and determine a target range of design specifications (numerical values or a range of values which represent reasonable product attributes) such as minimum or maximum weight, speed, dimensions, etc. This will aid in evaluating potential solution ideas and provide measurable design goals which can be fulfilled by the final solution. Ensure that each identified need has at least **one** design criterion which can be used to measure the ability of different solutions to satisfy that particular need. Note that one design criteria can be used for multiple needs. A comprehensive set of design criteria needs to be generated to avoid missing key or critical design parameters. The tables developed in the lecture can be used as a guide for doing this. Reflect on how the client meeting impacted the development of your design criteria and specifications, when deciding which criteria are relatively more important. This should be a maximum of 5 pages.

#### **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