# CSME National Design Competition 2025

Project:                                    Judge:

Report Judging

| Characteristics | Unacceptable (1-3) | Acceptable (4-6) | Commendable (7-8) | Score |
|---|---|---|---|---|
| **Report quality** | Report is either hard to follow or poorly organized. Writing and formatting are often poor. | Report is well organized and includes acceptable graphics and tables. Writing is mostly clear and formatting is usually well done. | Report organization flows and includes interesting, appropriate tables and professional graphics. Writing is crisp and clear and all sections are well formatted. | |
| **Completeness and clarity** | Information is missing or difficult to understand; further explanation is often needed. | Information is present but at times is difficult to understand. | Information is thorough and relevant and at times enriches viewer's knowledge and interest. | |
| **Background information and project goals** | Insufficient background information is given; project goals and benefits are poorly stated or missing. | Sufficient background information is given; the purpose and goals of the project are adequately explained. | Thorough and relevant background information is given; project goals are clear and easy to identify. | |
| **Design approach, testing, and results** | Approach to the problem is weak or flawed. Tests are inconclusive. Results are disappointing or incomplete. | Approach to the problem is adequate. Testing is good. Results are acceptable and complete. | Approach to the problem is innovative. Testing is thorough, and results are robust and usable. | |

**Category Judging:**

**Technical Excellence in Mechanical Engineering**

The report and overall design demonstrate an excellent application of Mechanical Engineering tools and knowledge. The team has demonstrated a strong grasp of fundamental concepts and how they apply to the project. Appropriate knowledge and tools are used in developing and verifying the design and are be applied in creative or novel ways.

**Sustainability**

The report and overall design demonstrate significant consideration and positive impacts with respect to social, economic, and/or environmental sustainability. Sustainability factors were clearly considered when making design decisions and trade-offs. Implications of design solution on sustainability are considered in-depth.

**Commercial Readiness**

The report and overall design demonstrate verification and testing in a realistic scenario, considering authentic use cases. Factors such as useability, implementation, application environment, reliability and cost are considered throughout the design process. Technology Readiness Level should be 4 or above as defined here: [Technology readiness levels (canada.ca)](canada.ca)