**UBC Materials Engineering**

**Lockheed Martin Design Project Prize**

**Criteria**

The prize is awarded for the best group final report as judged by the external report reviewers. The report reviewers assign a mark to final reports. The group that produced the report which obtains the highest mark from the external reviewers is the winner of the prize. The prize winning-group may not necessarily be the group with the highest overall score in MTRL 466/467 as the external reviewers only control a portion of the final overall mark.

The criteria for reports are presented below for each section of the final report.

|  |  |
| --- | --- |
| **Report Section** | **Allocated Marks** |
| **Executive Summary** |  |
| *Clear summary of salient points with no irrelevant information* | *5* |
| **Need and Constraint** |
| *Identification of customers/users* | *3* |
| *Identification of need* | *3* |
| *Identification of constraints* | *3* |
| **Problem Specification** |
| *Clear and rational specification of design requirements* | *8* |
| **Technical Review** |  |
| *Concise summary of what is and what is not known on the subject* | *5* |
| *Critical appraisal of the literature* | *5* |
| *Identification of possible designs/methods for the current project*  | *5* |
| **Assess and Select Design Options** |
| *Coherent discussion of the benefits/downsides to available design options*  | *5* |
| *Rationalized decision for design option choice* | *5* |
| **Detailed Design** |  |
| *Design meets needs and constraints* | *10* |
| *Technical justification of the design (sound use of engineering science and engineering design principles)* | *20* |
| **Socio-Economic Assessment of Design** |  |
| *Relevant, researched and justifiable presentation of the socio-economic impacts of the design* | *5* |
| **Recommendations** |  |
| *Brief summary of results and relevant, justifiable recommendations* | *5* |
| **Presentation** |  |
| *Correct use of English (spelling, grammar, punctuation)* | *5* |
| *Clear presentation (consistent formatting, readable figures and tables)* | *3* |
| *Logical development of ideas and general flow of document* | *5* |
| **Total** | **100** |