Capstone Engineering Design: Testing Plan Rubric

Team Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- |
|  |  | **Cycle 2 Preliminary Test Plan** | **Cycle 3 Final Test Plan** |
|  | Coverage of tests | /50 | /25 |
|  | Relevance of tests | /50 | /25 |
|  | Clarity of tests |  | /50 |
|  | Appropriate use of statistics |  | /50 |
|  | Completeness of test procedures |  | /50 |
|  |  |  |  |
|  | TOTAL: | /100 | /200 |

Grading elements for Test Plan

|  |  |  |  |
| --- | --- | --- | --- |
|  | Excellent (max pts) | Average (mid pts) | Poor (lowest pts) |
| Coverage of tests | Each spec has an associated test | Some specs are missing tests | Many specs are missing tests |
| Relevance of tests | Tests are appropriate for determining whether specs are met | Some tests are not sufficient to determine whether the spec is met | Many tests are not sufficient to determine whether the spec is met |
| Clarity of tests | Tests are unambiguous and have sufficient detail to allow tests to be reproduced by competent technicians or engineers | Some tests are missing sufficient detail to allow reproduction by outsiders | Many tests are missing sufficient detail to allow reproduction by outsiders |
| Appropriate use of statistics | Statistics are used appropriately. Sample sizes are justified. Uncertainty analysis is included if appropriate. | Statistical techniques are mentioned but not fully justified | No discussion of statistics is present |
| Completeness of test procedures | Tests have the 5 elements: scope, equipment, plan, criteria, statistics. | Some tests are missing some of the 5 elements | Many tests are missing some of the 5 elements |