Capstone Engineering Design: Specification Sheets Rubric

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

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| --- | --- | --- | --- | --- |
|  |  | **Cycle 2 High Priority Specs** | **Cycle 3 Functional Specs** | **Cycle 5 Final Specs** |
|  | Relevance and thoroughness of specs | /20 | /20 | /20 |
|  | Clarity of specs/ quality of tests | /20 | /20 | /20 |
|  | Detail appropriate for cycle | /20 | /20 | /20 |
|  | Point values for specs | /20 | /20 | /20 |
|  | Flow down of specs | /10 | /10 | /10 |
|  | Completeness of information | /10 | /10 | /10 |
|  | TOTAL: | /100 | /100 | /100 |

Grading elements for Objective Sheets

|  |  |  |  |
| --- | --- | --- | --- |
|  | Excellent (max pts) | Average (mid pts) | Poor (lowest pts) |
| Relevance and thoroughness of specs | Specs follow logically from Customer Needs and all Customer needs have some associated specs (or are noted at bottom). Specs are sufficient to capture all major aspects of design. | Some specs do not reflect the intent of the Customer Needs; OR some Customer Needs do not have associated objectives; some aspects of project are not covered by specs | Most specs are irrelevant to intent of customer needs |
| Clarity of specs/ quality of tests | Pass/ fail can easily be determined from specified parameter values; testing methods are appropriate and unambiguous | Pass/ fail in some cases is ambiguous or subjective; some test methods are not described in sufficient detail | Pass/ fail is completely subjective or testing methods are unspecified in most cases |
| Detail appropriate for cycle | For Cycle 2: Specs cover all high priority items; for Cycle 3: Specs cover subsystems or basic integration aspects; for Cycle 5: Specs deal with full system functionality |  | Many elements are missing. |
| Point values for specs | Key specs have high point values; less important specs have lower values; stretch goals are worth at least 10% of total points | Some point values are out of proportion to their importance to the project | Point values are sandbagged with easy or irrelevant specs worth the majority of points |
| Flow down of specs | Specs have associated Customer Needs listed |  | Specs do not have associated Customer Needs listed |
| Completeness of information | All information, including risk assessments, is filled out in the Spec Sheet | Some information is missing | Large amounts of information are missing |