**ECCS 2311 Electric Circuits**

**Signal Conditioning Prototype Implementation and Demonstration Rubric**

**Demo Pitches given December 5, 2017**

**Student(s) Name(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Excellent** | **Above Avg** | **Average** | **Marginal** | **Unsatisfactory** | | **Pts** |
| **Design Alternative Comparison** | **20-18 pts**  Expertly compares designs based on important, relevant, & measurable evaluation metrics. | **15-18 pts**  Compares designs well based on good evaluation metrics | **12-15 pts**  Compares designs based on evaluation metrics | **9-12 pts**  Discusses an alternative design without comparing with clear metrics | **0-9 pts**  Little or no mention of design alternative or evaluation metrics used, or design alternative is not viable (constraints) | |  |
| **Test plans and methods** | **20-18 pts**  Well thought & reasonable test plans and methods; well implemented | **15-18 pts**  Some useful test plans and methods described & implemented | **12-15 pts**  Some useful test plans and methods, not all implemented | **9-12 pts**  Too few test plans or poor implementation of plans | **0-9 pts**  No suitable test plans or methods | |  |
| **Demonstration** | **20-18 pts**  Requires little to no guidance with correct description; very clear description | **15-18 pts**  Description of functionality is correct; mostly clear description | **12-15 pts**  Description of functionality has one or two notable errors; somewhat clear description | **8-12 pts**  Description has several notable errors; needs assistance; unclear description | **0-8 pts**  Description is full of errors and needs assistance; poor description, or No attempt to demonstrate or gives up | |  |
| **Performance** | **20 pts**  Exceeds customer specs and behaves as desired | **18-19 pts**  Meets customer specs and behaves as desired | **15-18 pts**  Mostly meets customer specs and behaves mostly as desired | **12-15 pts**  Nearly meets specs and behaves somewhat as desired | **9-12 pts**  Meets some performance points | **0-9 pts**  Fails to perform in any way as desired |  |
| **Duration** | **20 pts**  Demonstrates and describes within 5 minutes | **18-19 pts**  Demonstrates and describes within 6 minutes1 | **12-17 pts**  Demonstrates and describes within 9 minutes | **8-12 pts**  Demonstrates and describes within 11 minutes | **0-8 pts**  Demonstrates and describes within 15 minutes | |  |

1A point is deducted for each additional 30 seconds taken to demonstrate.

**Additional Comments on Prototype Implementation and Demonstration:**

**Instructor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**