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| Project Title: | Student Name(s): |
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| **Elements** | **Needs Improvement** | **Competent** | **Excellent** |
| **Abstract/Summary**  - Project Background  - Summary  **\_\_\_\_ / 10** | * Insufficient details provided for the project background to understand the project.    Summary of the project report is confusing or irrelevant | * Description of the project background is explained in adequate detail. Missing some information. * Summary of the project report is adequately explained. | * Clear description of the project background explaining the project in full detail. * Summary of the project report is well laid out and concise. |
| 0-3 point | 3-7 points | 7-10 points |
| **Design Section**  - Component selection  - Theory  - Justification  **\_\_\_\_ / 25** | * Little to no explanation of the theory of the design and selected components * Choice of components are poorly justified and/or make little practical sense. * Little to no visuals. | * Partial explanation of theory and logic of the design and selected components. * Justification for choosing components adequately explained and are sensical. * Diagrams, flow charts and some visuals are included. | * Comprehensive explanation of the theory and logic of the design and selected components. * Justification for choosing components is well explained and logically sound. * Diagrams, flow charts and any other visuals used to explain the design are professionally made. |
| 0-8point | 8-18 points | 18-25 points |
| **Simulation and Testing**   * Test methods * Simulation * Implementation   **\_\_\_\_ / 30** | * Reasoning for chosen tests poorly explained and are hard to follow. * Simulated results insufficiently explained and/or have discrepancies with waveforms. * No waveforms. * Results from implementation not acknowledged. | * Reasoning for chosen tests explained in adequate detail. Expected inputs and outputs are stated. * Simulated Results explained with reference to waveforms. * Results from implementation are explained/acknowledged. | * Reasoning for chosen tests explained in great detail. Expected input and output clearly defined. * Simulated results well explained and referenced to annotated waveforms. * Test procedure and results from implementation explained in great detail. |
| 0-10 points | 10-20 points | 20-30 points |
| **Discussion and Conclusion**   * Discussion of results * Concluding remarks   **\_\_\_\_ / 25** | * Project is poorly summarized. * Little to no reflection on the project problem. * No acknowledgement of the optimizations made and/or ares to be improved. | * Project is summarized in adequate detail. * Adequate reflection on the project problem and some elaboration on the questions/issues encountered. * Adequate reflection on the design choices and some acknowledgement of optimizations made and areas to improve. | * Project is summarized in great detail. * Deep reflection on the project problem and elaboration on the questions/issues encountered during the project and how they were solved. * Deep reflection on the design choices and acknowledgement on optimizations and areas where the design could be improved. |
| 0-8point | 8-18 points | 18-25 points |
| **Appendices**   * Organization * Completeness   **\_\_\_\_ / 5** | * No Appendix | * Appendices are missing projects components and/or poorly labels them | * Appendices are well Organized and Project components are clearly labelled. |
|  | 0-1.5 points | 1.5-3.5 points | 3.5-5 points |
| **Formatting**  **\_\_\_\_ / 5** | * Report missing basic requirements such as the title page or outline. * Placement of visuals are sporadic. * Report is difficult to follow. | * Report is sufficiently formatted with all the required elements. * Organization is adequate. | * Report is formatted beautifully with a cover page, table of contents, headers and all visual placements are well thought out. * Pages are numbered and the report is easy to follow. |
|  | 0-1.5 points | 1.5-3.5 points | 3.5-5 points |
|  | **Mark: \_\_\_\_ / 100** | \* |  |

\*Note: The report accounts for 15% of the final grade.