## Technical Report, and Technical Peer Review; Conducted Weeks 7-12:

Each team will participate in a peer review conducted by two Senior Design project teams.

All members of the team being reviewed shall be present at the peer review. Each member of the team being reviewed will be required to equally contribute to the review. The team being reviewed is required to provide a technical content package link to the reviewing teams before end of Week 6 of the class schedule. If the reviewing teams find documentation missing from the repository, updates to the contents will be allowed for one additional week. At the end of Week 7, no new content may be added to the repository.

The technical report will be graded on the content found in the repository according to

the following Rubric:

• (5%) The report should in IEEE academic paper format

• (5%) Abstract:

o Brief introduction about the whole project. Such as the implemented algorithms, hardware design, and results.

• (10%) Introduction:

o (2%) Background regarding the project

o (2%) Need, why we need this project.

o (2%) Challenge, compared with state-of-art technology, what are technical difficulties in accomplishing this project?

o (2%) Brief description regarding the project in aspect of functionality, achievement, and novelty, etc.

o (2%) Summary of the project

• (10%) Related Work

o (5%) Citations should be in IEEE academic paper styles.

o (5%) Discussions:

▪ Summarization of the reference

▪ Critique or comment of the reference

o Do not direct copy from the source.

• (20%) Project Descriptions and Results

o (15%) Details about how projects are done in aspect of algorithms, hard ware design, and other implementations.

o (5%) Illustration and demonstration of results in figures, table, and charts.

▪ All figures, table, and charts should have captions.

• (5%) Discussion of results

o Discuss the current results of the project in aspect of achievements, functions, and novelty.

o Compare with results from other literatures if possible, such as accuracy or efficiency improvement, cost elimination, and novel functions.

o Discuss about the future work.

• (5%) Conclusion

• (40%) Appendix

o Source code, Data flow models, 3D models, Simulations, Circuit designs, Circuit analysis, etc.

The technical peer review will be conducted on each person in the team via a question-and-answer session. The objectives of the peer review will be to determine:

• Each team member can clearly articulate their administrative duties and technical contributions to the project.

• Each team member can clearly explain their implementation of the design in plain language to both persons from within the same discipline, and outside the discipline.

• Each team member can articulate the technical requirements the project is to satisfy, or more specifically what requirements their work products satisfy.

• Each team member can identify the testing required to demonstrate the technical requirements are satisfied (within their work statement).

• Each team member can quickly locate reference documents required for their work or deliverable work products.

• Each team member can clearly identify project technical deliverables.

• Each team member can clearly objectify the current status of their deliverables.

The technical peer review will be graded according to the following Rubric for each team member:

• (10%) The team member can identify their duties and technical contributions.

• (20%) The team member can explain their technical implementation to a peer, and to person of a different discipline.

• (10%) The team member can point out the technical requirements that impact their specific work statement, or deliverable.

• (20%) The team member can clearly explain the testing requirements of their specific work statement or deliverable.

• (10%) The team member can retrieve, display, or demonstrate their specific work products.

• (20%) The team member can adequately answer technical questions about the work presented as their contribution(s).