A term project shall be done in lieu of a final exam. The project you choose:
- must be of topical interest, and must relate to course material of EE5220.
- Plagiarism or re-use of past reports or projects is strictly prohibited.
- is sufficiently researched (referenced) and documented, including at least one in-depth analysis and presentation of the concepts of the journal paper that is most related to this work. Follow IEEE standard format in listing and calling out references.
- must apply theory and concepts, develop and implement a simulation or design method, produce results, and make conclusions and recommendations. Can include lab verification.
- must demonstrate graduate-student level of mastery of the concepts and material.
- length of body of report: approximately 10 pages of text (not including figures, tables, or equations).

Time line and required submissions are as follows, all deliverables contribute to the grade of your term project. Approximate schedule is:
- Week 6 (Friday): submit short e-mail with idea(s) requesting instructor feedback.
- Week 8 (Friday): submit formal outline of project and list of key references. *
- Week 9: submit updated outline of project and complete reference list.
- Week 11: journal paper analysis and .ppt presentation (also counts as mini-lecture) *
- Week 12: Submit rough draft of project report *
- Week 14: Submit final report/deliverable.
- Finals week: be prepared to present/demonstrate project during final exam time-slot.

* graded milestones.

Report Outline:
**Front Matter (number pages i, ii, iii, iv, v, ...):**
- Title Page
- Executive Summary (not needed for initial draft)
- Statement of contributions, signed off in agreement by each team member.
- Table of Contents (use as "working outline")

**Body of report (number pages 1, 2, 3, ...):**
- Introduction (brief overview of project: problem area, motivation, overview of project)
- Background
  - literature search, most important references
  - Presentation of key concepts connected with project
  - Identification of existing voids or weaknesses, and resulting opportunity
- Proposed Approach
  - Overview of basic idea that you will develop and implement
  - Development and implementation details
- Implementation (may not be complete in draft versions)
- Results (Expected Results in draft versions)
- Conclusions, and Recommendations for Continued Work
- Appendices as required (model details, parameters, complete results, etc)

**Supplemental Information:**
- Reference List (IEEE format, number [1], [2], etc, in order of first author's last name)
- Use IEEE writing guidelines, abbreviations, etc. Document full details in Appendices.

**Required layout:**
- Font: 11-pt CG Times w/1.25-1.5 line spacing; or 10-pt comic or ariel w/1.0-1.25 line space
- Page layout: 1" margins, include page numbering within margin area.