A term project (EE5223) or term paper (EE4223) shall be done in lieu of a final exam. In either case, the objective is to actively figure out and explain the underlying concepts, key relationships and equations, and the "how to" details of the engineering. Goal: a tutorial document to get another engineer up to speed on what you have done.

The project you choose:

- must be of topical interest,
- must relate to course material of EE4223/5223,
- must demonstrate level of mastery and application of the related concepts and theories, at graduate level (EE5223 students) or at senior level (EE4223).
- includes a detailed literature search (applications magazines, standards, and journal papers) and Reference List, with salient concepts summarized in Background section of report. EE5223 groups will also need to do a technical review of the journal paper that is most related to their project.
- length of body of report: approximately 10 pages of text (not including figures, tables, equations, or appendices).

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 12: Submit rough draft of project report
- Week 14: Submit final report/deliverable.
- Finals week: EE5223 prepared to present/demonstrate project.

Report Outline/Table of Contents:
- Title Page - Include project title, course name, authors' names, revision date
- Executive Summary (not needed for initial draft)
- Table of Contents (use as "working outline")
- 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 (EE5223) or Application (EE4223)
  - Overview of basic idea that you will develop and implement
  - Development and implementation details
- Implementation (may not be complete in draft versions)
- Results (EE5223) or Expected Results/Performance (EE4223)
- Conclusion
- Recommendations for Continued Work
- Reference List (number references [1], [2], etc, in order of first author's last name)
- Appendices as required to document details

Suggested 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