A term **project** (not a term paper) counting for 10% of your grade is due in week 14. The project could be an engineering design project, a technical paper that investigates and explains how a technology works, a lab project, a computer simulation/study, or some other project that is approved by your instructor. **For ABET accreditation, this is to be an individual effort focused on “life-long learning and technical writing.”** It may be possible to work in pairs if you choose a system-level project that involves two distinct technologies. The report will follow these guidelines:

**Format:** Formal, prepared on word processor, and printed on laser printer. 1" margins on sides, top, and bottom. 11 point font, 1½ line spacing, arial/helvetica or comic font. Provide separate cover/title sheet, and attach a separate reference list sheet at the end. Staple in upper left corner.

**Length:** 6-8 pages of text/person, not including cover sheet, figures, equations, reference list, appendices.

**Style:** Use standard technical writing style - 3rd person impersonal, passive voice. Make effective use of figures, schematics, equations, tables, etc. to help explain your points. (Figures, tables, and equations do not apply toward page count). Write in your own words. Direct cut-and-paste from the web, word-for-word copying from books or articles, or copying of past term projects is not allowed – it is plagiarism.

**Resources:** Use your text, the MTU library, WWW, etc. Also feel free to quiz your professor for leads or hints. He may have even have info in his office he could loan you. Stop by during his office hours for lots of free help.

**Topic/Content:** The topic you choose should be something new to you, and preferably a new and interesting technology. **Get approval from your instructor before proceeding on the specific topic.** Topics related to energy conversion, generation, storage, transmission, and consumption of electrical energy should be good.

**Grading:** Grading criteria are: organization, grammar/spelling, conciseness, not going over allowed length, mastery and explanation of the technical aspects of chosen topic, complete coverage (don’t leave the reader hanging), content, and completeness of research/references.

One-paragraph summary of possible project idea(s) - due Feb 25th 5pm, Box 34.

Detailed outline and reference list is due on Tues of Week 9 (Mar 15th, 5pm, Box 34).

Full project report is due on Wednesday of Week 14 (Apr 20th, 5pm, Box 34).

Some ideas and links to info are given on the EE3120 web page:

[http://www.ece.mtu.edu/faculty/bamork/ee3120/](http://www.ece.mtu.edu/faculty/bamork/ee3120/)

To make it more fun and interesting, the topic could be on recent technical advances in power systems, The purpose of this project is to learn more about some aspect of power systems and to give you realistic practice in quickly researching and getting up to speed on a new technology. **Be sure to include technical specifications and document the calculations needed for analysis and design related to this technology!** In most cases, I have some info to loan you, or some hints on where you can find info. Stop by during my office hour for a chat.