A term project counting for 10% of your grade is due in week 8. The project could be an engineering design project, a technical paper that details how a technology works, a lab project, a computer simulation/study, or some other project that is approved by your instructor. You will work in pairs - find a partner. If it is a technical paper, 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 or helvetica 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, not including cover sheet, figures, equations, and reference list.

**Style:** Use standard technical writing style - 3rd person impersonal, passive voice. Inclusion of figures, equations, etc. to help explain your points is encouraged. (Figures 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.

**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. Anything system-level topic related to generation, storage, transmission, and consumption of electrical energy should be a good topic.

**Grading:** Grading criteria are: organization, grammar/spelling, conciseness, not going over allowed length, mastery 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(s) and names of partners - due before Christmas Break

Detailed outline and reference list is due on Monday of Week 6.

Full project report is due on Wednesday of Week 8.

Some ideas and links to info are given on the EE380 web page:

http://www.ee.mtu.edu/faculty/bamork/ee380/

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.

$$$ Prizes if you extend this project! $$$

Thinking ahead, you could develop your work into a IEEE student poster paper - $200 first place prize. We usually take several students with us to the IEEE Power Engineering Society winter and summer meetings. Take a look at the IEEE Student PES web page for cash awards for designs, poster paper contests, jobs and coops, etc. http://www.ee.mtu.edu/stu_orgs/ieeepes/freebies.html