

ECE512 Term Project Information Sheet

Students are encouraged to form groups of three students for the term project. Each term project is divided into two stages.

At the first stage, students propose a survey project that will cover at least 10 articles, papers and patents. The end product of this stage is a one-page proposal plus a reading list. The one-page project proposal must explain how the survey is related to the course objective. The contents of the survey reports must be significantly beyond the lecture materials. Suggested topics for the survey project include:

- high performance memory system design
- parallelization and program analysis
- runtime optimization and software migration issues
- compiler technology for advanced microarchitecture design
- operating system considerations in advanced microarchitecture design
- energy consumption reduction techniques
- application specific architecture and microarchitecture techniques
- future fabrication and circuit impact on microarchitecture

The second stage will result in a survey report between 5 and 10 pages in length in two-column format. You should also include a copy of all referenced papers and documents as an attachment to the report, preferably in a CD ROM. Each team will be asked to give a 20-min presentation in class. The presentation slides should also be submitted at the end of the presentation.

Selected previous term projects are available for copying from Prof. Hwu. Outstanding term projects this semester will be made available to the future classes. The emphasis of both stages of the term project should be on the learning aspect rather than publication.

Important Dates:

Project proposals due: March 9 (in e-mail)

Project reports due: April 21, 5pm.

Presentations in class: April 23, 28, 30, May 4.