

# EE492: End of Semester Reminders

Please refer to the course syllabus and web site for more detailed information.

## Wednesday 6 December 2006

3:00-3:30PM: Faculty Demonstration and Design Review, Location TBD  
 MEMS Mask project  
 Review team: Becker, Repasky, Dickensheets

3:30-4:00PM: Faculty Demonstration and Design Review, Cobleigh 411  
 Aurora Detector project  
 Review team: Wolff, Nehrir, Repasky

## Thursday 7 December 2006

### Design Fair!

8:00-10:00AM: Setup in SUB Ballroom

9:30-10:00AM	Project: X-band Power Combiner	
	(1) Bruce McLeod	
	(2) Todd Kaiser	
10:00-10:30AM	Project: Remote Power Monitor	Project: ECEbot RF Link and Navigation
	(1) Bruce McLeod	(1) Randy Larimer
	(2) Todd Kaiser	(2) Tia Sharpe
10:30-11:00AM	Project: Electronic Gaming	Project: Satellite Sensors
	(1) Bruce McLeod	(1) Randy Larimer
	(2) Todd Kaiser	(2) Joe Shaw
11:00-11:30AM	Project: Satellite Power	Project: Digital Beamformer
	(1) Richard Wolff	(1) Randy Larimer
	(2) Todd Kaiser	(2) Tia Sharpe
11:30AM - noon	Project: ECEbot Power	Project: Programmable Phone Ringer
	(1) Bruce McLeod	(1) Randy Larimer
	(2) Todd Kaiser	(2) Richard Wolff
	(3) Brock LaMeres	(3) Joe Shaw

Each project team member is required to participate in a demonstration of the *fully functioning project*. In addition to the design fair poster displays, you should be prepared with project goals, schematics, flow diagrams, and similar materials to demonstrate that project performance goals have been met. *Grades will be assessed primarily on the degree to which the project performance goals have been achieved.* Project teams without demonstrable evidence that the design goals have been met should expect a very low score from the review team.

The review team will also assess the team's preparation (documentation ready, readable and sufficient), the ability of each team member to answer project-related questions, and whether or not the appropriate test equipment is available to verify the project's performance.

Noon-6:00PM: Public open house

The format is a public poster presentation and demonstration of your project. Each student will prepare materials describing his or her part of the project and the project team will display a comprehensive combined poster and demonstrate the project (if possible) during the public session held in the SUB. This is a group presentation with each student participating and describing his or her own contribution to the project.

The entire system hardware and software should be included in the display. The poster materials should include an overview of the project, discussion of engineering constraints, information regarding each student's contribution to the final design, project performance, results, conclusions and recommendations for future work.

NOTE: faculty will be reviewing the poster and display setups primarily during the 3-5PM time slot, although some faculty poster reviews may occur throughout the afternoon.

### ***Monday 11 December 2006***

- Final self/peer review forms due (to Maher) by 5:00PM
- Technical Documentation Package due (to faculty advisor) by 5:00PM.

Each project team is to produce a Technical Documentation Package for the project. One copy is delivered to the project's faculty advisor and/or sponsor (if required) by 5PM. The goal of the technical documentation package is to supply sufficient information so that an engineer (or follow-on project students) can completely understand and reconstruct your project hardware and software. The package may include, but is not limited to, the following items:

Schematic diagrams; PC board layout; PC board files; mechanical drawings; construction information; circuit descriptions; written test plans; written test results; software design documentation; software listings; software test plans and results; component data sheets; trouble shooting techniques; error messages; copies of progress reports; references

If a user's manual is appropriate for the project (not all projects will have a user's manual) the project team is to produce one as part of the final documentation. It is to be delivered to the ECE office with the technical documentation package. The faculty project advisor and/or sponsor may require additional copies. The user's manual normally contains complete information for the user to install, run the system, and troubleshoot problems. Maintenance information, if appropriate, should be included, as well as error messages and what to do about them.

### ***Wednesday 13 December 2006***

- Complete project documentation package delivered to ECE office by 3:00PM.

Materials to submit include:

1. Engineering Standards and Constraints Review Paper
2. EE492 Design Journals in labeled box. Your advisor may or may not return these to you.
3. Design Fair presentation package (poster)
4. Technical Documentation Package: Report, Design Description, and User's Manual (if applicable)

and the Senior Design Checklist fully completed.