

ECE 1778: Creative Applications for Mobile Devices



Lecture 7
February 28, 2012

Today

1. Logistics
2. ISSCC papers of relevance
3. Proposal Presentations



Logistics

Assignments P4 and A4

- Due Yesterday
- Marking of A3/P3 almost done
 - Having trouble with iPhone running certificates!

Project TimeLine

1. Forming Groups
2. One-Page Proposal
3. Project Plan
- 4. Proposal/Plan Presentations**
 - Weeks of February 14 and 28
5. Spiral 2 & Spiral 4 Presentations
 - 2: March 6/13 4: March 20/27
6. Final Presentations
 - Weeks of April 3 & 10
7. Final Report Due April 12th



Spiral 2 Presentations: Begin Next Week

- Called Spiral '2' because '1' is this current week
- **Bring a phone with your app working**
- Prepare a ≤ 5 minute demo + presentation:
- Bring 1-2 Powerpoint/PDF slides



Spiral 2 Presentation Outline

1. Reminds us the goal 'the purpose of my app is to ...'
2. Show top-level block diagram & say what is complete
3. Indicate what will be ready for Spiral 4
4. Demo **functioning** App
 - Will use document camera to project



Presentation Order

- Everyone should be ready to present next week, as was the case for the plan

The International Solid-State Circuits Conference (ISSCC)



ISSCC

- Is the top 'chip' conference, covering every new and interesting chip made in industry and academia
 - Every processor from Intel is usually published there
 - 2 page papers!

- Five interesting papers:
 1. Intel's Ivy Bridge Processor and **22nm** process & 3D Transistor
 2. Pedometer with energy harvesting
 3. Seizure Classification
 4. Samsung's next big chip for Mobiles
 5. Object Recognition core



Project Plan Presentations Today

Continued



Recall: Time Limit

■ Five Minute Time Limit

- Timed
- +1 if group has an Apper

■ Three Minutes for Questions

Presentation Contents

The Essence of the Plan submitted 2 weeks ago:

1. Reprise Goal, make more precise
2. Give Mock-ups of what User sees
3. Block Diagram of Code
4. Statement of Risks/Issues
5. What do you need to learn that you don't know
6. For Groups with Appers
 - 1 extra minute, for Apper to say how this fits into their field



Plan Discussions

- Each group member should contribute to discussion
- Come up to front
 - Please be constructive
- Pick a good Name for your project
 - Names are important!
 - Feel free to change the one we picked last week.
- Identify a **Spiral 1** goal
- Identify a **Spiral 2** goal – for presentation March 6!



Order of Presentations Today

1. Drive Mod – Matheson, Awachie, Thorpe
2. MyWalk – Chee, How, Wan
3. EncountAR - Pollock, Sheng, Zhou
4. Surgical Black Box – Cates, Hi, Avery
5. Campusnaut – Candy, Hu, Man
6. Music Motion Measurement – Tumanyan x2
7. Fit Formula – Liu, Tomkun, Fitzgerald
8. Psychology Experiment – Wang, Liang
9. Music Tapper – Golafra, Yang

