EE/CpE 423
Senior Design
Fall 2004
Class 7 – 10/26/04
Agenda

• Task schedule
• Groupless students
• Web sites
• Fall presentations
Senior Design Tasks – Fall ‘04

1. Identify project
2. Form group
3. Select advisor
4. Develop project proposal
5. Publish project proposal
6. Develop final design report
7. Submit parts list, final design report
8. Oral/slide presentations
9. Weekly status reports
10. Group effectiveness

Timeline:
- 9/1/04
- 10/1
- 11/1
- 12/1
- 1/1/05

Today
Senior Design Students Not Yet Known To Be In A Project Team

29 groups appear to be making progress

5 students not yet in groups

<table>
<thead>
<tr>
<th>Ceanfaglione</th>
<th>Cheung</th>
<th>Hashmi</th>
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<tbody>
<tr>
<td>Karshner</td>
<td>Koscinski</td>
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</table>
Senior Design Web Sites

• Every group must develop a web site

• **Must** be hosted on panda.ece.stevens-tech.edu

• Logins/passwords have been sent to everyone in Senior Design. Please change password to something better than the login name…

• Web sites will be graded monthly on the 15th of the month, starting 11/15/04
  – Content must include:
    • All weekly reports (NOT Effectiveness Surveys)
    • Proposals, project reports, presentations
    • Links to relevant sites are encouraged
  – Everything on your web site must be in one of two formats: .pdf or .html
    – No Word, PowerPoint, MSProject, etc. files

• Web site design must be *your* group’s original work. You can mimic format if you see something you like, but generate your own html.

• Consider readability of your site:

  Is this very readable
Fall Presentation Schedule – **PLAN AHEAD**

<table>
<thead>
<tr>
<th>Tuesday, November 30</th>
<th>Tuesday, December 7</th>
<th>Thursday, December 2</th>
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</thead>
<tbody>
<tr>
<td>Time</td>
<td>Group</td>
<td>Time</td>
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<tr>
<td>3:00 – 3:15</td>
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<td>3:00 – 3:15</td>
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<td>5:30 – 5:45</td>
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<td>5:30 – 5:45</td>
</tr>
</tbody>
</table>

Unassigned: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

**These slots are probably not going to be assigned**
Presentation Logistics

• There are 29 groups presenting - time is tight!
  – 15 minute time slot
  – Includes ~5 minutes for questions, discussion, change over

• You should create your presentation with PowerPoint.
  **Save it in PowerPoint2000 format (or earlier).**
  • DO NOT SAVE IN POWERPOINT-XP or Office2003+ VERSION – I CAN’T OPEN IT.

• To simplify logistics, email me your presentation before noon the day of your presentation
  – there will be no time for setting up/switching multiple PCs, switching between PCs, slide projector
  – I’ll put the presentation on my laptop
  – I WILL NOT HAVE CD-ROM or FLOPPY AVAILABLE
  – DON’T MISS YOUR TIME SLOT – While I would like everyone to see every presentation, as a minimum, arrive at least 20 minutes early. If you miss your assigned time slot, there may not be time for a makeup of this **required** presentation

• Your presentation should fit on 5-8 slides

• Diagrams, tables, charts are preferred. Word only slides (like this one) are not!
Generic Guidelines For A Good Proposal, Presentation

• Consider addressing the following questions:

  – What are you trying to do?
  – How is it done now?
  – What are the limits of current approaches?
  – How will your efforts influence the current limits?
  – If you succeeded beyond your wildest dreams, what would the impact be?
  – How will you be measuring progress to your end goals? How will you know if you are moving ahead or are stuck?
  – What is this effort likely to cost? What is the schedule?
Presentation Suggestions - 1A

• Many psychological studies have shown that the right and left halves of the human brain process information differently
  – The Left Brain processes text, speech and symbolic communications
  – The Right Brain processes images, diagrams

• If your slide consists only of text, like this one, your slide and oral presentation are only engaging half of the audience member’s attention. Some people do not process written or spoken information well - you are missing them altogether

• Text-only slides are:
  – boring – especially if you read the entire slide
  – easy to forget
  – hard to skim through if you are pressed for time

• If you write everything, why are you needed for the presentation in the first place? Just send a memo
Presentation Suggestions - 1B

- Graphics slides are more:
  - engaging
  - memorable
  - flexible

\[ \Phi(x) = \int_{-\infty}^{x} \frac{1}{\sqrt{2\pi}} e^{-\frac{t^2}{2}} dt \]
Presentation Suggestions - 2

- The standard instructions to a journalist:

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Who</td>
<td></td>
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<tr>
<td>What</td>
<td></td>
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<tr>
<td>Where</td>
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<tr>
<td>Why</td>
<td></td>
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<tr>
<td>How</td>
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</tbody>
</table>
Presentation Suggestions - 2

• The standard instructions to a journalist:

<table>
<thead>
<tr>
<th>Who</th>
<th>List group members and advisor on Title Slide</th>
</tr>
</thead>
<tbody>
<tr>
<td>What</td>
<td>Describe the problem you are trying to solve</td>
</tr>
<tr>
<td>Where</td>
<td>Indicate the course number on Title Slide</td>
</tr>
<tr>
<td>When</td>
<td>Indicate the date, semester on Title Slide</td>
</tr>
<tr>
<td>Why</td>
<td>Describe the background of the problem - why is it interesting?</td>
</tr>
<tr>
<td>How</td>
<td>Describe your approach</td>
</tr>
</tbody>
</table>
Presentation Suggestions - 3

- Structure of any good presentation:

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Tell them what you’re going to tell them</td>
<td></td>
</tr>
<tr>
<td>Tell them</td>
<td></td>
</tr>
<tr>
<td>Tell them what you told them</td>
<td></td>
</tr>
</tbody>
</table>
Presentation Suggestions - 3

• Structure of any good presentation:

| Tell them what you’re going to tell them | The outline |
| Tell them                                   | The body   |
| Tell them what you told them              | The summary |
Your Presentation

Some items to consider in your presentation:

- A top-down presentation is usually the easiest to follow
  - It is also the easiest to adapt to the time available and the level of understanding of the audience

Besides the Who, What, Where, When, Why, How, some specific questions to consider:
- What is the problem you are trying to solve?
- Who is the customer?
- How has the problem been approached in the past?
- What are the current limits?
- What are you proposing to do to remove the limits?
- What impact will your solution have?
- What challenges do you envision and how will you get around them?
Summary

• Schedule your presentation with the advisor’s calendar in mind. They need to grade your work, to avoid duplicating your presentation, find when they may be available and invite them.

• Structure the presentation to be effective

• Emphasize graphics to maximize impact

• Anticipate questions/issues and plan to address them

• Rehearse!