10/29: Design Day and the Project Video

The Capstone Experience

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What’s ahead?

• Week 10
  ▪ 10/27: Camtasia Demo
  ▪ 10/29: Design Day and the Project Video

• Week 11
  ▪ 11/03: Intellectual Property
  ▪ 11/05: Ethics and Professionalism

• Weeks 12, 13
  ▪ 11/10, 11/12, 11/17, 11/19
  ▪ Beta Presentations

Email legitimate conflicts by Wednesday. If you’ve already emailed me a conflict, email it again.
What’s ahead

• Week 14
  ▪ 11/24: Project Video Status Reports
  ▪ 11/26: Status Reports

• Week 15
  ▪ 12/01: Project Videos
  ▪ 12/03: Project Videos and All Deliverables
  ▪ 12/04: Design Day Setup
  ▪ 12/05: Design Day

• Week 16
  ▪ 12/09: Project Videos
  ▪ EB 2400, 3:00 p.m. – 5:00 p.m.
Design Day Overview

• Engineering Building (2\textsuperscript{nd} Time)
• Friday, December 5, 6:30am – 2:30pm
• Exhibits of Design Projects
  ▪ From Entire College of Engineering
  ▪ Open to the Public
  ▪ Visitors Include
    o Faculty
    o Family and Friends
    o Corporate Sponsors
    o Middle and High School Students
• Dress is Business
Design Day Activities

- 6:30 a.m. Setup and Breakfast
- 7:00 a.m. All-Hands Photo
- 7:30 a.m. - 11:45 a.m. Presentations to Judges
  - See Schedule
  - Room 3405
- 7:30 a.m. - 12:30 p.m. Team Exhibits
- 12:00 p.m. Free Lunch
- 12:30 p.m. Tear Down
- 1:15 p.m. Awards Ceremony
- 2:30 p.m. Debriefing Meeting
  - All-Hands
  - Families and Friends
  - Judges
  - Corporate Visitors
CSE Students Ready to Go at 7:00am
Team Exhibit

• Table
• iMac
  ▪ For Software
  ▪ For Project Video
• Other Device(s)
  ▪ MacBook Pro
  ▪ iPhone/iPad
  ▪ Android
• Poster
  ▪ DD Booklet Page
  ▪ Provided by Dr. D.
Alumni
Faculty
International Visitors
The Media
Design Day Awards

- **Awards**
  - Auto-Owners Exposition Award
  - GM Praxis Award
  - TechSmith Screencast Award
  - Urban Science Sigma Award
- **~12 Judges**
- **Based On**
  - Project Plan (Due When?)
  - Project Video
  - Design Day
    - Exposition
    - Presentation to Judges
Team GM Wins Auto-Owners Exposition Award
Project Video

• Tells Project Story
  ▪ The “Problem”
  ▪ Your “Solution”
    o Architecture
    o Some Technical Details
  ▪ Software Demo
  ▪ Acknowledgements

• 10-12 Minutes in Length
• Professional
• Lots of Work
Project Video How To

• Story Board
  ▪ Plan Video and Audio
  ▪ Very Specific

• Capture Audio
  ▪ Write Script
  ▪ Record in Telecomm Sound Studio

• Capture Video
  ▪ Screen Video or Shots
  ▪ Photographs
  ▪ Digital Video
  ▪ (While Listening to Audio?)
Project Video How To

• Edit
  ▪ Video
  ▪ Audio
  ▪ Use
    o Camtasia
    o Other Software of Your Choice

• Produce
  ▪ .mp4 (Required)
  ▪ .mov (Desired)
  ▪ .wmv (Optional)
To Do...

• Collect Assets
  ▪ Audio
    o Background Music (If Any)
    o Record Voiceover
  ▪ Video
    o Camtasia
    o Digital Video (with Capstone Camera)
    o Digital Photographs

• Import, Assemble and Edit Assets with Camtasia
  ▪ Put All Assets in One Project Folder
  ▪ Use (At Least) Three Tracks
    o Video
    o Audio for Voiceover
    o Audio for Music

• Produce
  ▪ Test Parts and Pieces in Advance
    o For Look and Feel
    o For Readability
  ▪ Produce Entire Video
    o In Advance
    o Preview Entire Video Before Submitting
Project Video Hints

• Look at Previous Videos
  ▪ See Archives
  ▪ Look at Previous Videos

• Voiceover
  ▪ Try TeleCom Recording Studio ASAP
    o Figure Out
      ❖ How to Sign Up
      ❖ Where It Is
      ❖ How To Use It
  ▪ Record Mary Had a Little Lamb
  ▪ Import into Camtasia
  ▪ Audio Can Be Split and Moved
    o Record with Gaps of Silence
    o If Mistake, Start Over at Previous Gap

• Background Music
  ▪ Make Sure Voiceover Much Louder
  ▪ Test in Room Settings (Like 1225 EB)
  ▪ Always Err on Side of Too Soft Music
  ▪ (Always a Problem with One Video)
Project Video Hints

• Reading App Text
  ▪ Often a Problem
  ▪ Use Very High Resolution and Pan/Zoom Feature of Camtasia
  ▪ Test In Advance
  ▪ In Room Setting (Like 2250 EB)
• Rendering
  ▪ Try Samples
  ▪ In Advance
  ▪ Takes a Long Time
  ▪ Do NOT Press Render Button One Hour Before Due
• Due
  ▪ By 2pm on Monday, December 1
  ▪ Via USB Stick to Dr. D. in Office
  ▪ Posted for Judges
• Posted Immediately for Judges
Project Videos

• See Archives

• Examples
  ▪ TechSmith
    Screen Capture Multi-Image Output Accessory for SnagIt
  ▪ Medtronic
    Mobile Health Management System
  ▪ Ford
    Ford Conference Room