# MICHIGAN STATE UNIVERSITY

## 10/29:

# Design Day and the Project Video

#### The Capstone Experience

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What's ahead?

(1 of 2)

- 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

(2 of 2)

- 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<sup>nd</sup> Time)
- Friday, December 5, 6:30am 2:30pm
- Exhibits of Design Projects
  - From Entire College of Engineering
  - Open to the Public
  - Visitors Include
    - Faculty
    - Family and Friends
    - Corporate Sponsors
    - 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 <u>Schedule</u>
  - 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.





**Families** 



Alumni



**Corporate Clients** 



Faculty



**International Visitors** 



The Media



Dean Leo Kempel

#### 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





Presenting to Judges



Team GM Wins Auto-Owners Exposition Award

#### Project Video

- Tells Project Story
  - The "Problem"
  - Your "Solution"
    - Architecture
    - Some Technical Details
  - Software Demo
  - Acknowledgements
- 10-12 Minutes in Length
- Professional
- Lots of Work



#### Project Video How To

(1 of 3)

- 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

(2 of 3)

- Edit
  - Video
  - Audio
  - Use
    - Camtasia
    - Other Software of Your Choice
- Produce
  - .mp4 (Required)
  - .mov (Desired)
  - .wmv (Optional)



### Project Video How To

(3 of 3)

#### To Do...

- Collect Assets
  - Audio
    - Background Music (If Any)
    - Record Voiceover
  - Video
    - Camtasia
    - Digital Video (with Capstone Camera)
    - Digital Photographs
- Import, Assemble and Edit Assets with Camtasia
  - Put All Assets in One Project Folder
  - Use (At Least) Three Tracks
    - o Video
    - Audio for Voiceover
    - Audio for Music
- Produce
  - Test Parts and Pieces in Advance
    - For Look and Feel
    - For Readability
  - Produce Entire Video
    - In Advance
    - Preview Entire Video Before Submitting



#### **Project Video Hints**

(1 of 2)

- Look at Previous Videos
  - See Archives
  - Look at Previous Videos
- Voiceover
  - Try TeleCom Recording Studio ASAP
    - 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
    - Record with Gaps of Silence
    - 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**

(2 of 2)

- 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 <u>Archives</u>
- Examples
  - TechSmith
     Screen Capture Multi-Image Output Accessory for Snaglt



MedtronicMobile Health Management System



Ford Conference Room

