MICHIGAN STATE
U N I V E R S I T Y

03/21:
Design Day and the Project Video

The Capstone Experience

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Spring 2016

From Students…
        …to Professionals

What's ahead?

- Week 10
  - 03/21: Design Day and the Project Video
  - 03/23: Camtasia Demo
- Week 11
  - 03/28: Intellectual Property
  - 03/30: Ethics and Professionalism
- Weeks 12, 13
  - 04/04, 04/06, 04/11, 04/13
  - Beta Presentations
- Week 14
  - 04/18: Team Status Reports
  - 04/18: Team Status Reports

Email legitimate conflicts by March 25.
If you've already emailed me a conflict, email it again.

What's ahead?

- Week 15
  - 04/25: Project Videos
  - 04/27: Project Videos and All Deliverables
  - 04/28: Design Day Setup
  - 04/29: Design Day
- Week 16
  - 05/04: Project Videos
  - EB 2243, 3:00 p.m. – 5:00 p.m.

Design Day Overview

- Engineering Building
- Friday, April 29, 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 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(s)
  - 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

MSU Board of Trustees

The Media

Dean Leo Kempel

Design Day Awards

- <u>Awards</u>
  - Auto-Owners Exposition Award
  - MSUFCU Praxis Award
  - TechSmith Screencast Award
  - Urban Science Sigma Award
- ~16 <u>Judges</u>
- Based On
  - Project Plan (Due March 28)
  - Project Video
  - Design Day
    - Exposition
    - Presentation to Judges

Presenting to Judges

Presenting to Judges

Team Whirlpool Wins Auto-Owners Exposition Award

Project Video

- Tells Project Story
  - Your Client
  - The "Problem"
  - Your "Solution"
    - Use Case(s)
    - Avoid "Boring" Stuff
      - Account Creation
      - Login Screen
      - "Boring" Administration Details
      - Zzz…
    - Technical Details
  - Acknowledgements
- 10-12 Minutes in Length
- Professional
- Lots of Work

**Don't forget.
Like Design Day Booklet.**

Project Video How To

- Story Board
  - Plan Video and Audio
  - Very Specific
- Capture Audio (Voice-Over)
  - 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
    - Camtasia
    - Other Software of Your Choice
- Produce
  - .mp4 (Required)
  - .mov (Desired)
  - .wmv (Optional)

Project Video How To

To Do…

- Collect Assets
  - Audio
    - Record Voice-Over
    - Background Music (If Any)
  - 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
    - 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

- Look at Previous Videos
  - See Archives > Websites By Semester
  - 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 Voice-Over Much Louder
  - Test in Room Settings (Like 2400 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 2400 EB)
- Rendering
  - Try Samples
  - In Advance
  - Takes a Long Time
  - Do NOT Press Render Button One Hour Before Due
- Due
  - By 2pm on Monday, April 25
  - Via USB Stick to Dr. D. in Office
- Posted Immediately for Judges

Project Videos

- See [Archives > Websites By Semester](#)

- See Design Day > Awards
  TechSmith Screencast Award

- Examples

  - Meijer
    [Mobile Location-Based Product Promotion](#)

  - Whirlpool
    [Launder: Laundry Room Tablet Payment System](#)

  - Amazon
    [SIFT: Seller-Forums Information Filtering Tool](#)