11/01:
Design Day and the Project Video

The Capstone Experience

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Fall 2021
All-Hands Meeting

➢ Design Day Exhibition In Person
  • Design Day Awards Ceremony In Teams
  • Project Video
  • What’s ahead?
Design Day Overview

• Engineering Building
• Friday, December 10, 7:00 a.m. – 12:30 p.m.
• 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 COVID Modifications

- Limited to Capstone Courses
  - Civil and Environmental Engineering
  - CSE
  - ECE
  - ME
- Spread Throughout Engineering Building
  - Civil: First Floor Classroom
  - ME: First Floor Hallways
  - ECE: Second Floor Hallways
  - CSE: Third Floor Hallways
- No Food
- No College-Wide Awards Ceremony
- Attendance Expected if in Michigan
  - 120/128 CSE498 Students in Michigan
  - 099/128 CSE498 Students in Greater Lansing
Design Day Activities

• Thursday, December 9
  ▪ 2:00 p.m. –
  ▪ Initial Setup
    o Cabling
    o Poster
    o Testing ← Make sure Lab iMacs are configured.

• Friday, December 10
  ▪ 7:00 a.m. Setup
  ▪ 8:00 a.m. - 12:00 p.m. Team Exhibits
  ▪ 12:00 p.m. Tear Down
Team Exhibit

• Table
• iMac(s)
  ▪ For Software
  ▪ For Project Video
• Other Device(s)
  ▪ Hardware
  ▪ PC
  ▪ Oculus Rifts
  ▪ Tablets
  ▪ Phones
• Poster
  ▪ DD Booklet Page
  ▪ Provided by Dr. D.
CoE Dean and MSU Board of Trustees Member
Design Day Awards

• Awards
  ▪ Auto-Owners Exposition Award
  ▪ MSUFCU Praxis Award
  ▪ TechSmith Screencast Award
  ▪ Amazon Sigma Award

• Awarded By
  ▪ Dr. D., James and Luke
  ▪ Corporate Judges?

• Based On
  ▪ Beta Presentation ← Note
  ▪ Project Plan
  ▪ Project Video
  ▪ Design Day
Team MSU ITS Wins Urban Science Sigma Award
All-Hands Meeting

✓ Design Day Exhibition In Person

➢ Design Day Awards Ceremony In Teams

• Project Video

• What’s ahead?
Design Day Award Selection

• Awarded By
  ▪ Dr. D., James and Luke
  ▪ Judges?

• Based On
  ▪ Beta Presentation
  ▪ Project Plan
  ▪ Project Video
  ▪ Design Day
Online Awards Ceremony When and Where

• Date & Time
  ▪ NOT Friday, December 10
  ▪ During Final Exam Time Slot
  ▪ Friday, December 17, 7:45 a.m. – 9:45 a.m. ET

• Microsoft Teams General Channel
  ▪ All-Hands
  ▪ Project Sponsors
Design Day Awards Ceremony Agenda

• Opening Remarks
• For Each Award
  ▪ Describe Award
  ▪ Announce Award Winning Team
  ▪ Watch Award Winner’s Project Video
• Capstone Wrap-Up
All-Hands Meeting

✓ Design Day Exhibition In Person
✓ Design Day Awards Ceremony In Teams

➢ Project Video

• What’s ahead?
Project Video

• Tells Project Story
  ▪ Your Project Sponsor / Client
  ▪ The “Problem”
  ▪ Your “Solution”
    o Use Case(s)
    o Avoid “Boring” Stuff
      ❖ Account Creation
      ❖ Login Screen
      ❖ “Boring” Administration Details
      ❖ Every Last Feature and Option
      ❖ Zzz...
    o Technical Details
  ▪ Acknowledgements

• ~10 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 Using “Good” Microphones

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

• Edit
  ▪ Video
  ▪ Audio
  ▪ Use
    ○ Camtasia
      ❖ Use MSU Site License
      ❖ See https://www.techsmith.com/tutorial-camtasia.html
    ○ Other Software of Your Choice

• Produce .mp4
Project Video How To

To Do...

• Collect Assets
  ▪ Audio
    o Record Voice-Over
    o Background Music (If Any)
  ▪ 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 > Websites By Semester
  ▪ See Design Day > Awards
    o TechSmith Screencast Award
    o Amazon / Urban Science Sigma Award

• Voiceover
  ▪ Instructors have a few microphones that you may borrow.
  ▪ 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 Voice-Over Much Louder
  ▪ Test in Microsoft Teams Setting
  ▪ 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 Microsoft Teams
- **Audio**
  - Ensure Voiceover is Louder than Background Music
  - Do NOT test wearing headphones.
- **Rendering**
  - Try Samples
  - In Advance
  - Takes a Long Time
  - Do NOT Press Render Button One Hour Before Due
- **Due**
  - By Midnight, Sunday, December 5
  - Uploaded to Microsoft Teams General Channel File Space
- **Posted Immediately for Project Sponsors**
Project Videos

• See [Archives > Websites By Semester](#)
• See Design Day > Awards
  ▪ TechSmith Screencast Award
  ▪ Amazon / Urban Science Sigma Award
• Examples
  ▪ United Airlines Training
  ▪ [Tech Ops Training Content Management System](#)
  ▪ Team Michigan State University ITS
  ▪ [Degree Navigator](#)
  ▪ Team Herman Miller
  ▪ [Scout 2.0: Dynamic Data Visualization for Dealers](#)
All-Hands Meeting

✓ Design Day Exhibition In Person
✓ Design Day Awards Ceremony In Teams
✓ Project Video

➢ What’s ahead?
What’s ahead?

- All-Hands Meetings
  - 11/01: M Design Day and the Project Videos
  - 11/03: W Team Status Report Presentations
  - 11/08: M Intellectual Property
  - 11/10: W Ethics and Professionalism
  - 11/15: M Team Beta Presentations
  - 11/17: W Team Beta Presentations
  - 11/22: M Team Beta Presentations
  - 11/24: W Team Status Report Presentations
  - 11/29: M Team Status Report Presentations
  - 12/01: W Team Status Report Presentations
  - 12/05: S Project Videos Due by Midnight
  - 12/06: M Project Videos
  - 12/08: W Project Videos and All Deliverables
  - 12/09: T Design Day Setup
  - 12/10: F In-Person Design Day (7:00 a.m. – 12:00 p.m.)
  - 12/17: F On-Line Design Day Awards Ceremony (7:45 a.m. – 9:45 a.m.)
What’s ahead?

• Design Day Booklet Content
  ▪ Proof Status
    o Proof PDF Round 03 Posted
    o Check it out. You never know...
  ▪ Paragraph Indent Errors
  ▪ Overall Process
    o Hard and Important Work
    o Good work! Thanks!
  ▪ Finding Errors Points
    o Rewards for Finding Errors: +0.2/Error
    o Penalties for Missing Error: -0.0/Error
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