03/17:
Design Day and the Project Video

The Capstone Experience

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Spring 2022
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, April 29, 7:00 a.m. – 12:30 p.m.
• Exhibits of Capstone 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 Code
  ▪ Historically Business
  ▪ May Go Business Casual
Design Day COVID Modifications

• Limited to Capstone Courses
• Spread Throughout Engineering Building
  ▪ Civil: First Floor Classroom
  ▪ ME: First Floor Hallways
  ▪ ECE: Second Floor Hallways
  ▪ CSE: Third Floor Hallways
• No Food Provided
• No Awards Ceremony on Design Day
• Attendance Expected if in Michigan
  ▪ 165/168 (98%) CSE498 Students in Michigan
  ▪ 156/168 (93%) CSE498 Students in Greater Lansing
Design Day Activities

- **Thursday, April 28**
  - 2:00 p.m. –
    - Initial Setup
      - Cabling
      - Poster
      - Testing ➔ Make sure the Lab iMacs are configured for Design Day.

- **Friday, April 29**
  - 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.
Design Day Awards

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

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

• Based On
  ▪ Beta Presentation
  ▪ Project Plan
  ▪ Project Video
  ▪ Design Day

Note
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, Luke and Brenden
  ▪ External Judges

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

• Date & Time
  ▪ NOT Friday, April 29
  ▪ During Final Exam Time Slot
  ▪ Friday, May 6, 7:45 a.m. – 9:45 a.m. EDT

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

• Produce .mp4
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]
  ▪ 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, April 24 ← Nota Bene
  ▪ 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 Herman Miller
    Scout 2.0: Dynamic Data Visualization for Dealers
  - Team Amazon
    Amazon Web Services: AWSome Availability Zones
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
  ▪ 03/15: Intellectual Property
  ▪ 03/17: Design Day and the Project Videos
  ▪ 03/22: Ethics and Professionalism
  ▪ 03/24: Team Status Report Presentations
  ▪ 03/29: Team Status Report Presentations
  ▪ 03/31: Team Status Report Presentations
  ▪ 04/05: Team Beta Presentations
  ▪ 04/07: Team Beta Presentations
  ▪ 04/12: Team Beta Presentations
  ▪ 04/14: Team Beta Presentations
  ▪ 04/19: Team Status Report Presentations
  ▪ 04/21: Team Status Report Presentations
  ▪ 04/25: Project Videos Due
  ▪ 04/26: Project Videos
  ▪ 04/27: All Deliverables Due
  ▪ 04/28: Project Videos
  ▪ 04/28: Design Day Setup
  ▪ 04/29: Design Day
  ▪ 05/06: Capstone Wrap Up

← split Hands/What’s left to do?

← 3 Weeks. Feature Complete.

← In Person In Engineering Building

← In Person In Engineering Building
What’s ahead?

• Design Day Booklet Content
  ▪ Proof Status
    o Proof PDF Round 01 Posted
    o Check everything carefully.
    o Email me corrections.
      ❖ Very Specific Instructions
      ❖ Scanned Page?
    o If no Ack from me by noon tomorrow, resend.

  ▪ Updated Artwork
    o At Most Once Per Team
    o By Tuesday, March 22, Midnight ← Nota Bene
    o Artwork Must Be Exact Same...
      ❖ Style (Web App, Mobile App, Etc...)
      ❖ Aspect Ratio
      ❖ Filename