

03/17:

# Design Day and the Project Video

## The Capstone Experience

Dr. Wayne Dyksen  
James Mariani  
Luke Sperling  
Brenden Hein

Department of Computer Science and Engineering  
Michigan State University

Spring 2022



*From Students...  
...to Professionals*

# All-Hands Meeting

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- 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
    - Faculty
    - Family and Friends
    - Corporate Sponsors
    - ~~○ 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.







Families





Corporate Clients





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, Luke and Brenden
  - External Judges
- Based On
  - Beta Presentation ← **Note**
  - Project Plan
  - Project Video
  - Design Day







Team MSU ITS Wins Urban Science Sigma Award



# All-Hands Meeting

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✓ Design Day Exhibition In Person

➤ Design Day Awards Ceremony In Teams

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# Design Day Award Selection

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- 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

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- 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

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- Opening Remarks
- For Each Award
  - Describe Award
  - Announce Award Winning Team
  - Watch Award Winner's Project Video
- Capstone Wrap-Up

# All-Hands Meeting

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- ✓ Design Day Exhibition In Person
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- Project Video
  - What's ahead?

# Project Video

- Tells Project Story
  - Your Project Sponsor / Client
  - The “Problem”
  - Your “Solution”
    - Use Case(s)
    - Avoid “Boring” Stuff
      - ❖ Account Creation
      - ❖ Login Screen
      - ❖ “Boring” Administration Details
      - ❖ Every Last Feature and Option
      - ❖ Zzz...
    - Technical Details
  - Acknowledgements
- ~10 Minutes in Length
- Professional
- Lots of Work

←Don't forget. Like Design Day Booklet





# Project Video How To

[1 of 3]

- 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

[2 of 3]

- 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

[3 of 3]

## 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

[1 of 2]

- Look at Previous Videos
  - [See Archives > Websites By Semester](#)
  - See Design Day > Awards
    - TechSmith Screencast Award
    - 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
    - Record with Gaps of Silence
    - 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

[2 of 2]

- 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

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- ✓ Design Day Exhibition In Person
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- ✓ Project Video
- What's ahead?



# What's ahead?

[1 of 2]

- 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?

[2 of 2]

- Design Day Booklet Content
  - Proof Status
    - Proof PDF Round 01 Posted
    - Check everything carefully.
    - Email me corrections.
      - ❖ Very Specific Instructions
      - ❖ Scanned Page?
    - If no Ack from me by noon tomorrow, resend.
  - Updated Artwork
    - At Most Once Per Team
    - By Tuesday, March 22, Midnight ← **Nota Bene**
    - Artwork Must Be Exact Same...
      - ❖ Style (Web App, Mobile App, Etc...)
      - ❖ Aspect Ratio
      - ❖ Filename