

MICHIGAN STATE
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11/02:

Design Day and the Project Video

The Capstone Experience

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

All-Hands Meeting

➤ Design Day Then

- Design Day Now
- Project Video
- What's ahead?

Design Day Overview

- Engineering Building
- Friday, December 11, 6:00 a.m. – 2:30 p.m.
- 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

- 6:00 a.m. Setup and Breakfast
- 6:30 a.m. All-Hands Photo
- 7:15 a.m. - 12:01 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. Capstone Gathering
 - All-Hands
 - Families and Friends
 - Judges
 - Corporate Visitors





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The Capstone Experience, Spring 2019

COMPUTER SCIENCE & ENGINEERING

Team Exhibit

- Table
- iMac(s)
 - For Software
 - For Project Video
- Other Device(s)
 - MacBook Pro
 - Tablets
 - Phones
- Poster
 - DD Booklet Page
 - Provided by Dr. D.







Middle and High School Students



Corporate Clients



CoE Dean and MSU Board of Trustees Member

Design Day Awards

- Awards
 - Auto-Owners Exposition Award
 - MSUFCU Praxis Award
 - TechSmith Screencast Award
 - Urban Science Sigma Award
- 20+ Judges
- Based On
 - Project Plan
 - Project Video
 - Design Day



Team MSU ITS Wins Urban Science Sigma Award

All-Hands Meeting

✓ Design Day Then

➤ Design Day Now

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Design Day Award Selection

- By Dr. D., James and Luke
- Based On
 - Project Plan
 - Beta Presentation ← **Nota Bene**
 - Project Video

Design Day When and Where

- Date & Time?
 - Friday, December 11, 10:00 a.m. – 12:00 p.m.
 - Friday, December 11, 7:45 a.m. – 9:45 a.m.
 - Friday, December 18, 7:45 a.m. – 9:45 a.m.
- Microsoft Teams General Channel

Design Day Agenda

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

All-Hands Meeting

- ✓ Design Day Then

- ✓ Design Day Now

- Project Video

- What's ahead?

Project Video

- Tells Project Story
 - Your 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 (If Possible)
- 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
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
 - Urban Science Sigma Award
- Voiceover
 - 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
- Rendering
 - Try Samples
 - In Advance
 - Takes a Long Time
 - Do NOT Press Render Button One Hour Before Due
- Due
 - By 12 p.m. (noon) on Monday, December 7
 - 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
 - Urban Science Sigma Award
- Examples
 - Ford
[SYNC Calendar](#)
 - Michigan State University
[SEA: Spartan Experience App](#)
 - Quicken Loans
[Fundamenta: Trust in New Home Construction](#)

All-Hands Meeting

- ✓ Design Day Then
- ✓ Design Day Now
- ✓ Project Video
- What's ahead?

What's ahead?

[1 of 4]

- All-Hands Meetings
 - ~~W10, 11/02: Design Day and the Project Videos~~
 - W10, 11/04: Camtasia Demo
 - W11, 11/09: Intellectual Property
 - W11, 11/11: Ethics and Professionalism



What's ahead?

[2 of 4]

- All-Hands Meetings
 - W12, 11/16: Team Beta Presentations
 - W12, 11/18: Team Beta Presentations
 - W13, 11/23: Team Beta Presentations
 - ~~W13, 11/25: Team Beta Presentations~~
 - W13, 11/26: Thanksgiving
 - W14, 11/30: Team Status Report Presentations
 - W14, 12/02: Team Status Report Presentations



What's ahead?

[3 of 4]

- All-Hands Meetings
 - W15, 12/07: Project Videos
 - By Noon
 - Uploaded to Microsoft Teams File Space
 - W15, 12/09: Project Videos and All Deliverables
 - By Noon
 - Uploaded to Microsoft Teams File Space
 - ~~W15, 12/10: Design Day Setup~~
 - W15, 12/11: Design Day, 7:45 a.m. – 9:45 a.m.?
 - W15, 12/11: Design Day, 10:00 a.m. – 12:00 p.m.?
 - W16, 12/18: Design Day, 7:45 a.m. – 9:45 a.m.?



What's ahead?

[4 of 4]

- Design Day Booklet PDF Proof Round 1
 - Probably Available Today
 - Download immediately after posted.
 - Check for and document errors.
 - Document errors in detail.
 - If Errors, print, edit, scan and email to Dr. D.
 - Details TBD

All-Hands Meeting

- ✓ Design Day Then
- ✓ Design Day Now
- ✓ Project Video
- ✓ What's ahead?