

MICHIGAN STATE

U N I V E R S I T Y

10/29:

Design Day and the Project Video

The Capstone Experience

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

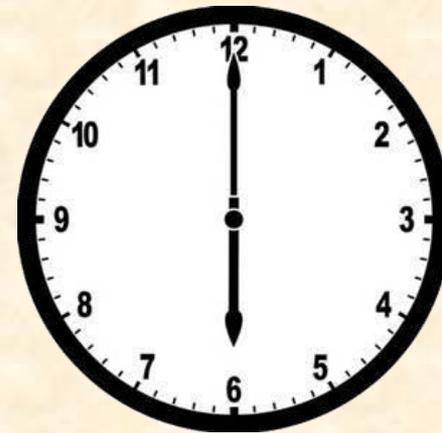
Design Day Overview

- Engineering Building
- Friday, December 7, 6:30 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
- 6:45 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. Capstone Gathering
 - All-Hands
 - Families and Friends
 - Judges
 - Corporate Visitors





MICHIGAN STATE
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The Capstone Class, Spring 2018

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.





Families



Middle and High School Students



Corporate Clients



CoE Dean and MSU Board of Trustees Member



The Media

Design Day Awards

- Awards
 - Auto-Owners Exposition Award
 - MSUFCU Praxis Award
 - TechSmith Screencast Award
 - Urban Science Sigma Award
- 12-18 Judges
- Based On
 - Project Plan
 - Project Video
 - Design Day
 - Exposition
 - Presentation to Judges





Presenting to Judges



Presenting to Judges

COLLEGE OF ENGINEERING
MICHIGAN STATE UNIVERSITY



College of Engineering
MICHIGAN STATE UNIVERSITY

COLLEGE OF ENGINEERING
MICHIGAN STATE UNIVERSITY



Team Herman Miller Wins Urban Science Sigma 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
 - ❖ Every Last Feature and Option
 - ❖ Zzz...
 - Technical Details
 - Acknowledgements
- ~7 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 Capstone 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
 - Other Software of Your Choice
- Produce
 - .mp4 (Required)
 - .mov (Optional)



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
 - TAs have a few microphones you can 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 Room Settings (Like 1279 AN)
 - 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 Room Setting (Like 1279 AN)
- 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 3
 - Via USB3 Device to Dr. D. in Office
- Posted Immediately for Judges



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](#)



What's ahead?

[1 of 2]

All-Hands Meetings

- ~~W10, 10/29: Design Day and the Project Video~~
- W10, 10/31: Camtasia Demo
- W11, 11/05: Intellectual Property
- W11, 11/07: Ethics and Professionalism
- W12, 11/12: Beta Presentations
- W12, 11/14: Beta Presentations
- W13, 11/19: Beta Presentations
- W13, 11/21: Team Status Reports



What's ahead?

[2 of 2]

All-Hands Meetings

- W14, 11/26: Beta Presentations
- W14, 11/28: Team Status Reports
- W15, 12/03: Project Videos
- W15, 12/05: Project Videos and All Deliverables
- W15, 12/06: Design Day Setup
- W15, 12/07: Design Day
- W15, 12/10: Project Videos

