

MICHIGAN STATE
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10/29:

Design Day and the Project Video

The Capstone Experience

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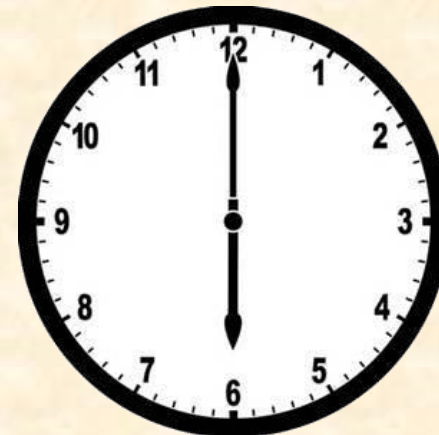
*From Students...
...to Professionals*

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





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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



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