

MICHIGAN STATE

U N I V E R S I T Y

03/19:

Design Day and the Project Video

The Capstone Experience

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

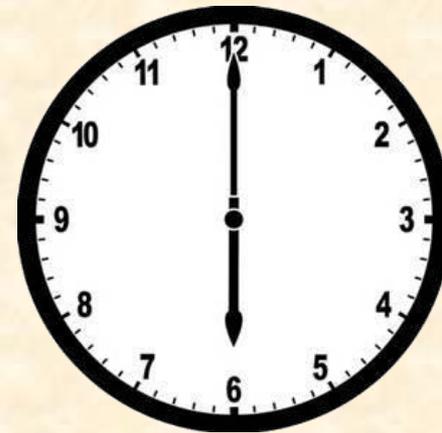
Design Day Overview

- Engineering Building
- Friday, April 26, 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. - 11:45 a.m. Presentations to Judges
 - See [Schedule](#)
 - [Room 3405](#)
- 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





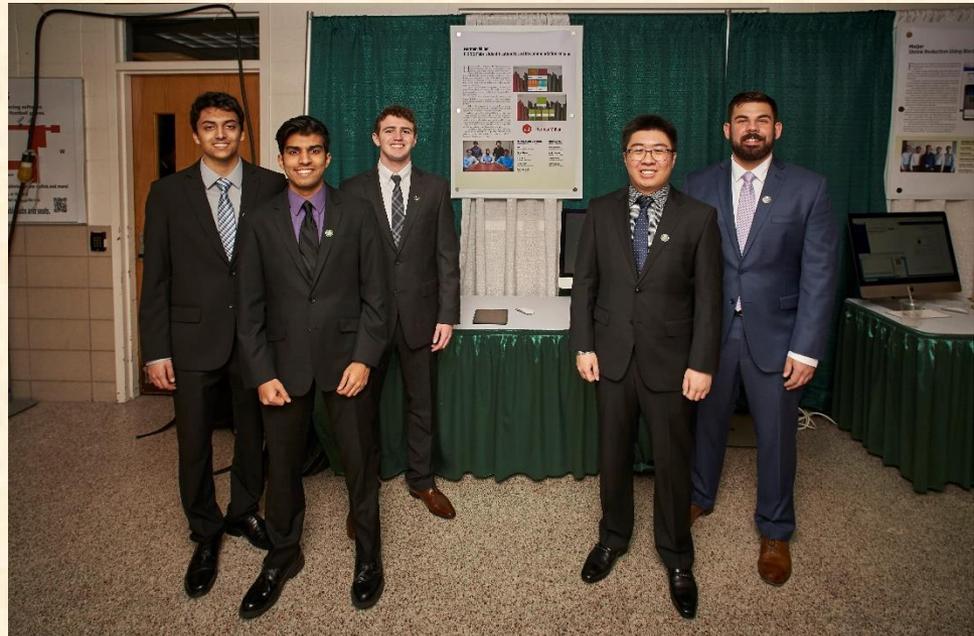
MICHIGAN STATE
UNIVERSITY

The Capstone Class, Fall 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
- 16-20 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
- ~6 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, April 22
 - 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]

- ~~W09, 03/12: What's ahead?~~
- ~~W09, 03/14: Ethics and Professionalism~~
- ~~W10, 03/19: Design Day and the Project Videos~~
- W10, 03/21: Camtasia Demo
- W11, 03/26: Team Status Report Presentations
- W11, 03/28: Intellectual Property
- W12, 04/02: Team Beta Presentations
- W12, 04/04: Team Beta Presentations
- W13, 04/09: Team Beta Presentations
- W13, 04/11: Team Beta Presentations



What's ahead?

[2 of 2]

- W14, 04/16: Team Status Report Presentations
- W14, 04/18: Team Status Report Presentations
- W15, 04/22: Project Videos Due (Noon)
- W15, 04/23: Watch Project Videos
- W15, 04/24: All Deliverables Due (Noon)
- W15, 04/24: Team Evaluation Forms Due (Midnight)
- W15, 04/25: Watch Project Videos
- W15, 04/25: Design Day Setup
- W15, 04/26: Design Day
- W16, 05/02: Watch Project Videos

