MICHIGAN STATE UNIVERSITY

03/10:

Design Day and the Project Video

The Capstone Experience

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Spring 2020



All-Hands Meeting

➤ Design Day and the Project Video

What's ahead?

Business Continuity Plans

Design Day Overview

- Engineering Building
- Friday, April 24, 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





MICHIGAN STATE U N I V E R S I T Y 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.





Families



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

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 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
 - o Camtasia
 - 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
 - o 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 20
 - 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

All-Hands Meeting

- ✓ Design Day and the Project Video
- ➤ What's ahead?

Business Continuity Plans

[1 of 4]

- All-Hands Meetings
 - **WXX, 03/03: Spring Break**
 - **WXX, 03/05: Spring Break**
 - **■** W09, 03/10: Design Day and the Project Video
 - W09, 03/12: Intellectual Property
 - W10, 03/17: Team Status Reports
 - W10, 03/19: Camtasia Demo
 - W11, 03/24: Ethics and Professionalism
 - W11, 03/26: Team Status Reports

[2 of 4]

- All-Hands Meetings
 - W12, 03/31: Beta Presentations
 - W12, 04/02: Beta Presentations
 - W13, 04/07: Beta Presentations
 - W13, 04/09: Team Status Reports
 - W14, 04/14: Team Status Reports
 - W14, 04/16: Team Status Reports

[3 of 4]

- All-Hands Meetings
 - W15, 04/20: Project Videos Due (N.B. Monday)
 - W15, 04/21: Project Videos Viewing
 - W15, 04/22: All Deliverable Dues (N.B. Wednesday)
 - W15, 04/23: Project Videos Viewing
 - W15, 04/23: Design Day Setup
 - W15, 04/24: Design Day
 - W16, 04/30: Project Videos Viewing

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- Design Day Booklet PDF Proof Round 02
 - Round 01 Produced and Checked During Spring Break
 - Download immediately.
 - Check for and document errors.
 - o Document errors in detail.
 - olf Errors, print, markup and deliver to Dr. D.
 - Email
 - O Due Wednesday, March 11, 11:59 p.m.
 - From Every Team
 - Using Template

The Capstone Experience What's ahead?

All-Hands Meeting

- ✓ Design Day and the Project Video
- √What's ahead?

> Business Continuity Plans

[1 of 2]

- "Plan for the worst; hope for the best."
- Complete...
 - ...as much as possible
 - ...as soon as possible.
- Plan For and Test Remote Work ASAP
 - Meet and/or Present via Microsoft Teams
 - Remote Access to Capstone Lab Machines (RDP and/or VNC)
 - Development on Personal Machines
 - Take Equipment "Home?"



Business Continuity Plans

[2 of 2]

- Non-Optional Items
 - Complete the Course
 - Complete and Deliver the Software to Clients
- Potentially Optional Items
 - All-Hands Meetings In-Person
 - Team Status Reports
 - o Camtasia Demo
 - Intellectual Property
 - Ethics and Professionalism
 - Beta Presentations In-Person
 - Project Video
 - Design Day



All-Hands Meeting

- ✓ Design Day and the Project Video
- √What's ahead?
- ✓ Business Continuity Plans