MICHIGAN STATE UNIVERSITY

10/31: Design Day and the Project Video

The Capstone Experience

Dr. Wayne Dyksen James Mariani

Department of Computer Science and Engineering Michigan State University

Fall 2024



From Students... ...to Professionals

Design Day and the Project Video

Design Day

Project Video



Design Day Overview

- Engineering Building
- Friday, December 6, 7:00 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

- Design Day Setup, Thursday December 5
 - 3rd Floor Engineering Building
 - 12:00 p.m. 2:00 p.m.
- Design Day, Friday December 6
 - 07:00 a.m. Setup
 - 08:00 a.m. Team Exhibits
 - 12:01 p.m. Tear Down and Lunch
 - 01:15 p.m. Awards Ceremony

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.



Team Evolutio ERP Air Force: Drone Elephant Recognition and Tracking



Families



Middle and High School Students



Corporate Clients

Design Day Awards

Awards

- Auto-Owners Exposition Award
- MSUFCU Praxis Award
- TechSmith Screencast Award
- Amazon Sigma Award
- Conferred By
 - Panel of Judges
 - See <u>http://www.capstone.cse.msu.edu/design-day/awards/#panel-of-judges</u>
- Based On
 - Project Plan
 - Project Video
 - Design Day



Team Vectra AI Wins Amazon Sigma Award

Design Day and the Project Video

✓ Design Day

Project Video



Project Video

- Similar to Design Day Booklet Project Page
- Tells Project Story
 - Your Project Sponsor / Client
 - The "Problem"
 - Your "Solution"
 - Use Case(s)
 - Two Or Three
 - How will your sponsor use your software?
 - Marshall Plan: What, So What, No What
 - Avoid "Boring" Stuff
 - Account Creation
 - Login Screen
 - "Boring" Administration Details
 - Every Last Feature and Option
 - ✤ Zzz...
 - Technical Details

←Don't forget. Like Design Day Booklet

- Acknowledgements
- ~8 Minutes in Length
 - Little wiggle room on time
- Professional
- Lots of Work

Project Video How To

- Story Board
 - Plan Video and Audio
 - Very Specific
- Capture Audio (Voice-Over)
 - Write Script
 - Record Using "Good" Microphones
- Capture Video
 - Screen Video or Shots
 - Photographs
 - Digital Video
 - While Listening to Audio?)

[1 of 3]

Project Video How To

- Edit
 - Video
 - Audio
 - Use
 - o Camtasia
 - Use MSU Site License
 - See <u>https://www.techsmith.com/tutorial-camtasia.html</u>
 - Other Software of Your Choice
- Produce .mp4



[2 of 3]

Project Video How To

To Do...

- Collect Assets
 - Audio
 - Record Voice-Over
 - Background Music (If Any)
 - Video
 - Screen Recordings using Camtasia
 - Digital Video
 - 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

[3 of 3]

Project Video Hints

[1 of 2]

- Look at Previous Videos
 - See Archives > Websites By Semester
 - See Design Day > Awards
 - TechSmith Screencast Award
 - Amazon / Urban Science Sigma Award
- Voiceover
 - We have a few microphones that you may 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 Meeting Room Setting
 - Always Err on Side of Too Soft Music
 - (Always a Problem with One Video)

Project Video Hints

- Reading App Text
 - Often a Problem
 - Use Very High Resolution and Pan/Zoom Feature of Camtasia
 - Test In Advance
 - In Room Setting
 - Audio
 - Ensure Voiceover is Louder than Background Music
 - Do NOT test wearing headphones.
 - Rendering
 - Try Samples
 - In Advance
 - Takes a Long Time
 - Do NOT Press Render Button One Hour Before Due
- Due
 - By Midnight, Sunday, December 1 ← Nota Bene
 - Uploaded to Microsoft Teams General Channel File Space
- Posted Immediately for Project Sponsors

Should be written script, even for demos.

Should not be ad lib.

Do not keep saying "I'm going to go ahead and..."

Project Videos

- See <u>Archives > Websites By Semester</u>
- See Design Day > Awards
 - TechSmith Screencast Award
 - Amazon / Urban Science Sigma Award
- Examples
 - Ford <u>SYNC Calendar</u>
 - Team Amazon Amazon Web Services: AWSome Availability Zones
 - Team TechSmith ACE: Automated Content Editor

Design Day and the Project Video

✓ Design Day

✓ Project Video



- Upcoming Meetings
 - = W10 10/31: Th Design Day and the Project Videos
 - W11 11/05: Tu Garret Gaw, VP, Amazon
 - W11 11/07: Th Rick Grubb, CIO, RPM
 - W12 11/12: Tu Intellectual Property
 - W12 11/14: Th Beta Presentations
 - W13 11/19: Tu Beta Presentations
 - W13 11/21: Th Beta Presentations
 - W14 11/26: Tu Beta Presentations
 - W14 11/28: Th Thanksgiving

- Upcoming Meetings
 - W15 12/01: Su Project Videos Due
 - W15 12/03: Tu Project Videos
 - W15 12/04: We Team Evaluation Forms Due
 - W15 12/04: We All Deliverables
 - W15 12/05: Th Project Videos
 - W15 12/05: Th Design Day Setup
 - W15 12/06: Fr Design Day
 - W15 12/11: We Design Day Wrap Up (5:45 p.m. 7:45 p.m.)



[2 of 4]

• MAPP Points Reminder - Nota Bene

- Last Week of Meetings
 - Tuesday -5.0
 - Thursday -5.0
- Design Day

Timeliness / Dress / Participation -0.5 to -5.0
 Very Late or Skip -5.0 and – Team Contribution Points
 Capstone Wrap Up During Exam Week -5.0



[3 of 4]

- Beta Presentation
- Outline
 - Brief Project Overview (Elevator Pitch)
 - (Skip Architecture Diagram and Screen Shots Slides)
 - Software Demonstration
 - Three Use Cases
 - Follow Marshall Plan
 - » What
 - » So What
 - » Now What Nota Bene
 - o Brief Summary of What's left to do?
- Use Entire 15 Minutes

Delete this slide.

Read Me

[1 of 2]

Presenting

- The purpose of the Beta Presentation is to demonstrate that the software portion of the project is complete. While the system
 may need a little debugging and a little user interface upgrades, the software is expected to be feature complete and delivered
 to your client on time (Wednesday, December 4).
- The time limit for your presentation is 15 minutes, which will be strictly enforced. Practice your presentation to ensure that you will finish within the allotted time.
- Each team will present using their own laptop. You will be provided with a wireless presenter. Ask your TM for adapters to connect the laptop that you will be using to the audio/visual equipment in your presentation room. Test <u>in advance</u> in the room in which you will presenting with the laptop you will be using.
- We will meet in "split-hands" meetings. Luke's teams will meet in 115 International Center, Griffin's teams will meet in 1281 Anthony, and Sam's teams will meet in 1130 STEM.
- Plan on spending most of your presentation demonstrating use cases of your software. A suggested approach is as follows.
 - Brief Project Overview (Your Elevator Pitch)
 - Software Demonstration of Use Cases (Skipping Architecture Diagram and All of the Screen Shot Slides in Your Slide Deck)
 - Brief Summary of What's left to do?
- Your presentation should be professional, well rehearsed, and flow from beginning to end. Practice presenting in a suitable room. Ensure that your slides are readable. Practice demonstrating your software. Practice switching from one team member to another.
- Think of your Beta presentation as a preview of your project video.
- Give live demos on actual hardware, rather than using screen recordings or simulators.
- As a backup to live demonstrations, make screen recordings of your software demonstrations using Camtasia in advance.
- Although the presentations will be scheduled over the course of four meetings, all teams must be prepared to present on the first day scheduled, Thursday, November 14.
- The presentation schedule will be posted on our <u>Weekly Schedule</u> page in the evening of Wednesday, November 13.

Delete this slide.

READ ME

[2 of 2]

- Creating and Editing
 - Read and follow the instructions in "Editing Documents and Presentations Using Office 365" of our course syllabus.
 - You must use this PowerPoint slide deck template as is. Do not change the number of slides unless the instructions explicitly allow you to duplicate slides. Do not change the order of the slides. Do not change the styles. Do not edit the master slides.
 - Throughout the template, replace placeholders [...] with the appropriate information.
 - Edit the center footer by clicking the Header & Footer button on the Insert ribbon. Change [Team Name] in the footer to your company name as in "Team TechSmith Beta Presentation". If necessary, extend the width of the center footer textbox on the master slide, making sure that you re-center the enlarged textbox.
 - Do not include any company confidential information in your presentation.
 - Delete every textbox that includes "Delete this textbox" and every slide that includes "Delete this slide."
- Submitting
 - All presentations are due to us and to your client by 11:59 p.m., Wednesday, November 13.
 - Name your PowerPoint slide deck file as "team-[team-name]-beta-presentation.pptx" replacing "[team-name]" with your team's name normalized by using all lower case, deleting non-numeric and non-alphabetic characters, and replacing blanks by dashes. Examples include "team-kohls-beta-presentation.pptx" and "team-wk-kellogg-co-beta-presentation.pptx". Set File Explorer or Finder to show all file extensions to ensure that there are no blanks before the ".pptx" extension as in "team-amazon .pptx".
 - Upload your PowerPoint slide deck to the folder "Beta Presentation Slide Decks" in our Microsoft Teams General Channel file space by 11:59 p.m., Wednesday, November 13. In addition, upload your slide deck to your team's private channel file space in case your slide deck is deleted by accident from the General Channel file space, and you need to prove that you did indeed upload your slide deck by the due date and time.
 - Email a copy of your slide deck to your client as well by 11:59 p.m., Wednesday, November 13. Do not cc us on that email.
 Include some professional text in the body of your email to practice being a professional and to avoid having your email sent to your project sponsor's junk folder.

The Capstone Experience

MICHIGAN STATE UNIVERSITY Beta Presentation [Project Title 36pt] The Capstone Experience Team [Team Name 24pt]

> [Team Member 1 16pt] [Team Member 2 16pt] [Team Member 3 16pt] [Team Member 4 16pt] [Team Member 5 16pt] [Team Member 6 16pt]

Department of Computer Science and Engineering Michigan State University

Fall 2024



From Students... ...to Professionals

Project Overview

- Point 1
- Point 2
- Point 3
- Etc...



System Architecture

Include your system architecture diagram from your Project Plan presentation.

Update or redo your system architecture diagram if you were asked you to do so in your alpha presentation feedback.



[Title of Screen Shot 1]

You must include at least four screenshots.

Include actual screen shots (i.e., not mockups), replacing [Title of Screen Shot] with an appropriate title.

You may duplicate the Screen Shot template slide as needed.

The screen shots should <u>not</u> contain any bordering transparent or whitespace. Use paint.net to <u>crop</u> them appropriately. ← **Read this carefully.**

If a slide contains more than one screen shot or additional artwork (like arrows), group all of the items into a single grouping so that it can be copied-and-pasted and resized as a single unit. ← Read this carefully.

[Title of Screen Shot 2]

You must include at least four screenshots.

Include actual screen shots (i.e., not mockups), replacing [Title of Screen Shot] with an appropriate title.

You may duplicate the Screen Shot template slide as needed.

The screen shots should <u>not</u> contain any bordering transparent or whitespace. Use paint.net to <u>crop</u> them appropriately. ← **Read this carefully.**

If a slide contains more than one screen shot or additional artwork (like arrows), group all of the items into a single grouping so that it can be copied-and-pasted and resized as a single unit. ← Read this carefully.

[Title of Screen Shot 3]

You must include at least four screenshots.

Include actual screen shots (i.e., not mockups), replacing [Title of Screen Shot] with an appropriate title.

You may duplicate the Screen Shot template slide as needed.

The screen shots should <u>not</u> contain any bordering transparent or whitespace. Use paint.net to <u>crop</u> them appropriately. ← Read this carefully.

If a slide contains more than one screen shot or additional artwork (like arrows), group all of the items into a single grouping so that it can be copied-and-pasted and resized as a single unit. ← Read this carefully.

[Title of Screen Shot 4]

You must include at least four screenshots.

Include actual screen shots (i.e., not mockups), replacing [Title of Screen Shot] with an appropriate title.

You may duplicate the Screen Shot template slide as needed.

The screen shots should <u>not</u> contain any bordering transparent or whitespace. Use paint.net to <u>crop</u> them appropriately. ← **Read this carefully.**

If a slide contains more than one screen shot or additional artwork (like arrows), group all of the items into a single grouping so that it can be copied-and-pasted and resized as a single unit. ← Read this carefully.

What's left to do?

Do NOT modify the title of this slide in any way. List your what's-left-to-do items on this one slide in bullet points. Delete this textbox.

- Features
 - Feature 1
 - Feature 2
 - Feature 4
 - Feature 4
- Stretch Goals
 - Stretch Goal 1
 - Stretch Goal 2
 - Stretch Goal 3
 - Stretch Goal 4
- Other Tasks
 - Other Task 1
 - Other Task 2
 - Other Task 3
 - Other Task 4

Give a list of the major tasks that you need to accomplish to complete your project.

Your project is expected to be feature complete, so you should <u>not</u> have a features left to do. But, if you do, be honest and list them here. If you do not, simply delete the sub-bullets "Feature 1"..."Feature 4."

Only include tasks that are relevant to your software system.

Do NOT include tasks such as "Update the Project Plan" or "Create Project Video."

Questions?

