MICHIGAN STATE UNIVERSITY

10/29: Design Day and the Project Video

The Capstone Experience

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Fall 2026



From Students…
…to Professionals

Design Day and the Project Video

- Design Day

- Project Video



Design Day Overview

- Engineering Building
- Friday, December 11, 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 ←Note



Design Day Setup

- When and Where ←Put on Calendar
  - Thursday, April 23, 12:30 p.m. – 2:30 p.m.
  - 3rd Floor Engineering Building
  - Meet in Capstone Labs
- What
  - Find Team Table (in Hallway)
  - Get and Setup Easel and Poster
  - Ensure Electrical Power
  - Setup and Test All Systems
- Who
  - Every Team Member Expected
  - Key Team Members Required
- Why
  - Mitigate All Problems in Advance
  - Be the Best Program



Design Day Activities

- 07:00 a.m. Setup
  - Late: Up to -5 MAPP Points
  - Very Late: -5 MAPP Points
- 08:00 a.m. Team Exhibits
- 12:01 p.m. Tear Down and Lunch
- 01:15 p.m. Awards Ceremony
  - Missing: -5 MAPP Points
  - Dressed Inappropriately: Up to -5 MAPP Points



Team Exhibit

- Table
- iMac(s)
  - For Software
  - For Project Video
- Other Device(s)
  - Tablets
  - Phones
  - AR/VR
- Poster
  - DD Booklet Page
  - Provided by Dr. D.



Team HAP
AI-Powered Video Creator Tool


Understanding and Improving Visual Prompting: A Label-Mapping Perspective

Families



Faculty



Dr. D Dean Popapolymerou President Guskiewicz



MSU President and Sponsors

Design Day Awards

- Awards
  - Auto-Owners Exposition Award
  - MSU Federal Credit Union Praxis Award
  - TechSmith Screencast Award
  - Amazon Sigma Award
- Conferred By
  - Panel of Judges
  - See http://www.capstone.cse.msu.edu/design-day/awards/#panel-of-judges
- Based On
  - Project
    - Plan
    - Software
    - Video
  - Design Day Performance





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, Now 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

[1 of 3]

- 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?)



Project Video How To

[2 of 3]

- Edit
  - Video
  - Audio
  - Use
    - Camtasia
      - ❖Use MSU Site License
      - ❖See https://www.techsmith.com/tutorial-camtasia.html
    - 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
    - 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
    - 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 3]

- Look at Previous Videos
  - See Archives > Websites By Semester
  - See Design Day > Awards
    - TechSmith Screencast Award
    - Amazon 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 Spoken Audio Much Louder
  - Test in Room Setting
  - Always Err on Side of Too Quiet Music
  - Too Loud Often a Problem



Project Video Hints

[2 of 3]

- Reading App Text
  - Often a Problem
  - Use Very High-Resolution Video with Pan/Zoom Feature of Camtasia
  - Test In Advance
  - In Room Setting
- Audio
  - Ensure Voiceover is Louder than Background Music
  - Do NOT test wearing headphones.
  - Use Provided High-Quality Microphones
- Rendering
  - Try Samples
  - In Advance
  - Takes a Long Time
  - Do NOT Press Render Button One Hour Before Due

Should be written script, even for demos.

Should not be ad lib.

Do not keep saying “I’m going to go ahead and…”



Project Video Hints

[3 of 3]

- Acting
  - Use at Your Own Risk
  - Audio Often Terrible
  - Use High-Quality Provided Wireless Microphones
  - Can Make or Break Chances for Design Day Award
- Use of Humor
  - Use at Your Own Risk
  - Cannot Predict Judges' or Clients' Response
  - Can Make or Break Chances for Award
- Due
  - By Midnight, Sunday, December 6← Nota Bene
  - Uploaded to Microsoft Teams General Channel File Space



Project Videos

- See Archives > Websites By Semester
- See Design Day > Awards
  - TechSmith Screencast Award
  - Amazon / Urban Science Sigma Award
- Examples
  - Team Amazon
    Amazon Web Services: AWSome Availability Zones
  - Ford
    SYNC Calendar
  - Team Launch
    My VR Language Tutor



Design Day and the Project Video

- ✓Design Day
- ✓Project Video

What's ahead?

- Design Day Booklet
  - ~~All Assets to Graphic Designer, Tim~~
  - Read and Follow Email Carefully
    - Every team must respond.
    - Due by Midnight Tonight ← **Note**
  - Page Proof Checking
    - Requires Fast Turn Arounds
    - Multiple Rounds

While (ErrorCount > 0) {

Dr. D. sends error corrections to Tim.
Tim creates and sends an updated pdf.

We check for errors.

}



What's ahead?

- Upcoming Meetings and Due Dates
  - ~~Week 09~~
    - ~~10/27, Tu: October Break~~
      ~~Warning: Travel issues will not be an acceptable excuse for missing meetings.~~
    - ~~10/29, Th: Design Day and the Project Video~~
  - Week 10
    - 11/03, Tu: Garret Gaw, VP, Software Engineering, Walmart
    - 11/05, Th: E.J. Dyksen, Director, PwC
  - Week 11
    - 11/10, Tu: Intellectual Property
    - 11/11, W: Artwork Updates Due ← Note (Just Before Betas)
    - 11/12, Th: Kristen Williams, VP & CTO, Meijer



What's ahead?

- Upcoming Meetings and Due Dates
  - Week 12
    - 11/17, Tu: Beta Presentations
    - 11/19, Th: Beta Presentations
  - Week 13
    - 11/24, Tu: Beta Presentations
    - 11/26, Th: Thanksgiving
  - Week 14
    - 12/01, Tu: Team Status Reports
    - 12/03, Th: Team Status Reports



What's ahead?

- Upcoming Meetings and Due Dates
  - Week 15
    - 12/06, Su: Project Videos Due
    - 12/08, Tu: Project Videos (Split-Hands)
    - 12/09, W: All Deliverable Due
    - 12/09, W: Team Evaluation Forms Due
    - 12/10, Design Day Setup
      12:00 p.m. – 3:00 p.m. ← Put on Calendar
    - 12/10, Th: Project Videos (Split Hands)
    - 12/10, Fr: Design Day
      7:00 a.m. – 2:30 p.m. ← Put on Calendar
  - Week 16
    - 12/16, We: Capstone Wrap Up
      10:10 a.m. – 12:10 p.m. ← Put on Calendar



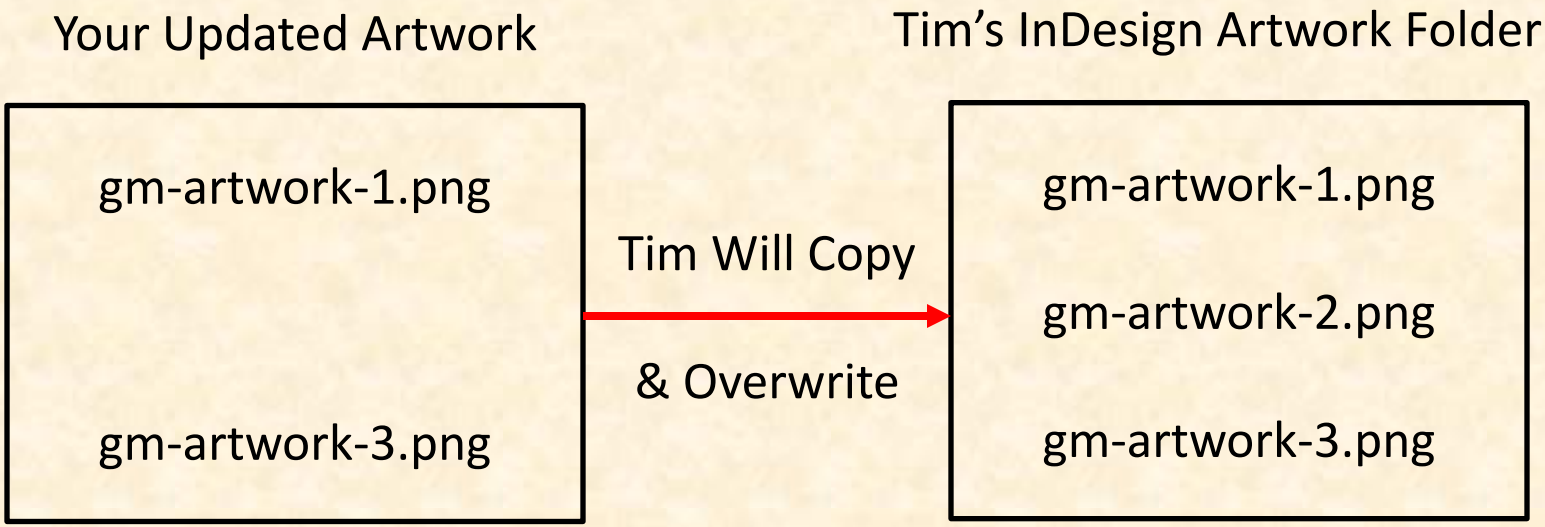
Artwork Updates

Think!

WWTD == “What Will Tim Do”

Key

InDesign does NOT embed artwork, it links to the png files.



Artwork Updates

[2 of 5]

- If NOT Submitting Do NOTHING!
- If Submitting…
  Read Email Instructions Carefully
  - Download assets zip file.
    - Website Downloads
    - MS Teams “DD Booklet Assets with Original Artwork Zip Files”
      (Website Not Available Off Campus, MS Teams is Available)
  - Replace updated artwork png files.
  - Delete non-updated artwork png files
  - Update artwork in docx file.
  - Document updates in docx file per instructions. (See Example Below.)
  - Ignore everything else in docx file.
  - Create updated assets zip file.
  - Upload updated assets zip file to Teams.



Artwork Updates

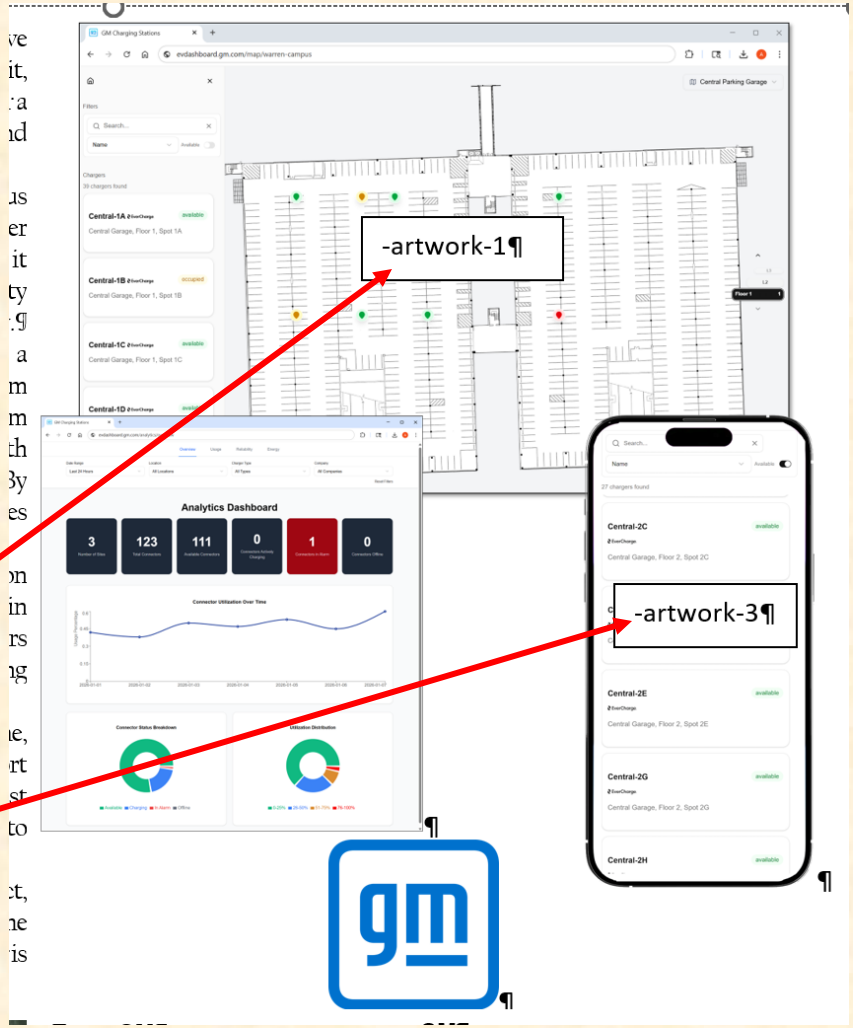
[3 of 5]

- Updated Artwork Must
  - Be Very High Resolution
  - Match Exactly
    - Filename
    - Type
      - Desktop App
      - Web App
      - Mobile
    - Aspect Ratio
  - Have Whitespace Cropped
  - NOT Have Borders Added
    (Contradicts Initial Email Instructions)



Artwork Updates

- Documenting
  - Update your docx file.
    - Right mouse-click on artwork
    - Change Picture > This Device…
  - Create textbox and place overtop of updated artwork.
  - Identify the artwork with shortened filenames.
    - -artwork-1
    - -artwork-3



Artwork Updates

[5 of 5]

- Create Assets Zip File
  - docx File with Updated Artwork
  - Include Only Updated png Files
  - Delete png Files NOT Being Updated
- gm-assets.zip
  - gm-page.docx
  - gm-artwork-1.png
  - gm-artwork-3.png

gm-artwork-2.png
Not Updated
Not Included

- Upload Assets Zip File to Teams File Space
- Due by Midnight, Wednesday, November 11



MICHIGAN STATE UNIVERSITY

09/01, 09/03: Capstone Overview

The Capstone Experience

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Department of Computer Science and Engineering
Michigan State University

Fall 2026



From Students…
…to Professionals

Team Contribution

- What % of Team Grade (70 Points) Did Student Earn?
- Based on Variety of Factors Including But Not Limited to…
  - Attendance and Participation
    - Team Meetings
    - Project Sponsor Meetings
    - All-Hands/Split-Hands Meetings
  - Completion of Tasks
    - Size and Number
    - Correctly
    - On Time
  - Willingness to Take on New Tasks
  - Making Significant Technical Contribution
  - Interactions with Teammates ← Note
- Read the syllabus.



Technical Contribution [1 of 3]

- Required of Everyone
- Significant Work and Code
- Does Not Include Code…
  - Committed to GitLab by Someone Else
  - That Does Not Work
  - Copied from the Internet
  - Generated by ChatGPT or any AI/LLM tool or any tool. (Not Allowed)
  - Simple Front-End Work: HTML and/or CSS
  - Not Included in The Project
  - Not Relevant to the Project
  - For CheckInCount = 1 to 100 {Modify Code Slightly; Checked Code In Again}
  - Etc…
- Necessary, but Not Sufficient
  - Doing Research
  - Creating UI/UX Designs
  - Creating Presentations and/or Documents
  - Giving Presentations
- Read the syllabus.

Technical Contribution

Syllabus
20. Final Course Grades

- To be considered as part of a student's Technical Contribution grade, all of the student's project software must be
  - a) committed to the main branch of the team's Git repository,
  - b) integrated with the team's project software system,
  - c) working correctly, and
  - d) demonstrated and explained to the instructors

    by the date of the first Beta Presentation. ← **Take Note**

Grading

Unacceptable Excuses for Not Contributing

- My teammates…
  - …never asked me to do anything.
  - …never let me do anything.
  - …mistreated me.
- My features were…
  - …not included in the project.
  - …deleted by our client
- I wrote lots of code, but it wasn't included in the project.
- I work 15 hours per week at my job.
- I live 60 minutes from MSU.
- I didn't want to work on this project team.
- I did a lot of research about stuff we never used.
- I was busy interviewing.
- Etc…

Grading

[7 of 8]

- We reserve the right to make changes with sufficient notice.
- No special consideration will be given for final grades, including but not limited to
  - status in any academic program at MSU including CSE,
  - status in a graduate program, including at MSU,
  - the need to be graduated this semester,
  - the ability to enroll in CSE498 next semester,
  - financial aid,
  - hours worked in a job while a student at MSU,
  - distance commuting to MSU,
  - anticipated graduation from MSU,
  - acceptance of a job in anticipation of graduation,
  - rank in the armed forces,
  - mortgage on a property,
  - rental lease on a property,
  - upcoming wedding,
  - visa status,
  - or anything else.