

MICHIGAN STATE

U N I V E R S I T Y

03/21:

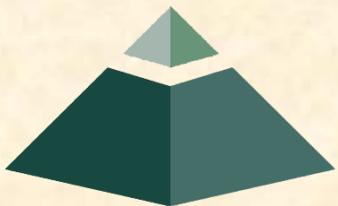
Design Day and the Project Video

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University

Spring 2017



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

What's ahead?

[1 of 3]

- ~~Week 9~~

- ~~Tu, 03/14: Team Status Reports~~
- ~~Th, 03/16: Team Status Reports~~

- Week 10

- Tu, 03/21: Design Day and the Project Video
- Th, 03/23: Camtasia Demo

- Week 11

- Tu, 03/28: Intellectual Property
- Th, 03/30: Ethics and Professionalism



What's ahead?

[2 of 3]

- Week 12
 - Tu,04/04:Beta Presentations
 - Th,04/06:Beta Presentations
- Week 13
 - Tu,04/04:Beta Presentations
 - Th,04/06:Beta Presentations
- Week 15
 - Tu,04/18:Team Status Reports
 - Th,04/20:Team Status Reports



**Email legitimate conflicts by
March 28.**
**If you've already emailed me
a conflict, email it again.**



What's ahead?

[3 of 3]

- Week 15
 - Tu,04/25:Project Videos
 - Th,04/27:Project Videos and All Deliverables
 - Th,04/27:Design Day Setup
 - Fr,04/28: Design Day
- Week 16
 - Th,05/04:Project Videos

Recall: Meeting Attendance

- Required
 - All-Hands (Class) Meetings
 - Team Triage Meetings
 - 5% of Final Grade
 - Late == Absent
 - Almost No Excuses Accepted
 - One or Two Excused Possible for Interviews
 - Must Provide Information
 - Date, Company, Recruiter Name & Contact Info
 - In Advance
 - To Both Dr. D. and Spencer
 - Must Attend (No Excuses Accepted)
 - Your Team Presentations
 - All Project Video Viewing
 - Design Day
- Do NOT schedule interviews.
Do NOT schedule ANYTHING.
Do NOT buy plane tickets.



Design Day Overview

- Engineering Building
- Friday, April 28, 6:30am – 2:30pm
- 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

- 6:30 a.m. Setup and Breakfast
- 7:00 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

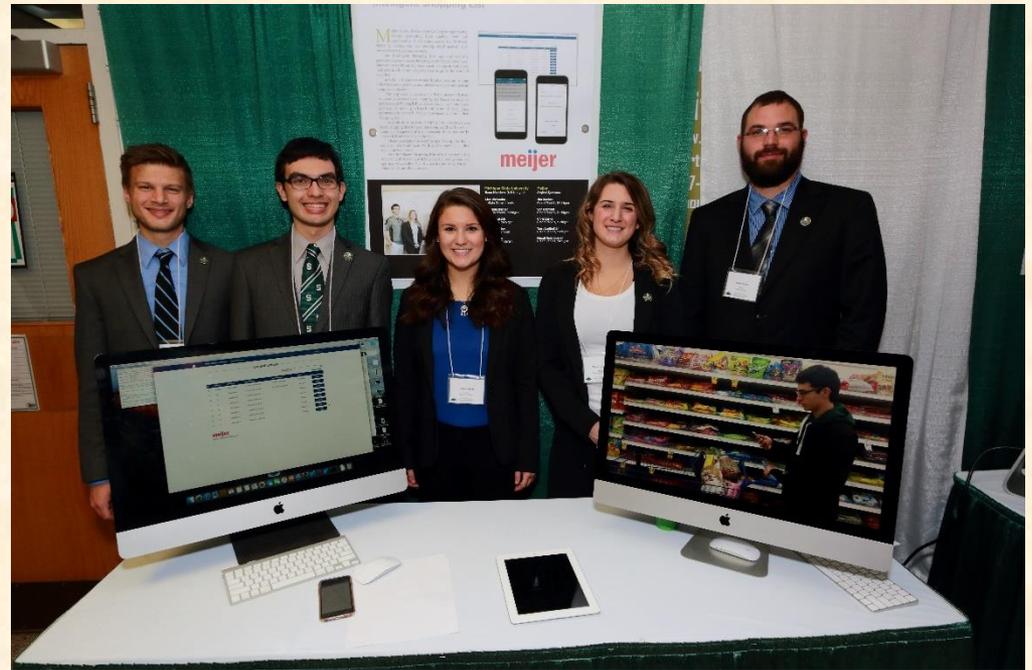




CSE Students Ready to Go at 7:00am

Team Exhibit

- Table
- iMac(s)
 - For Software
 - For Project Video
- Other Device(s)
 - MacBook Pro
 - iPhone/iPad
 - Android
- Poster
 - DD Booklet Page
 - Provided by Dr. D.





Families



Alumni



Middle and High School Students



Corporate Clients



Faculty



Dean and MSU Board of Trustees Member

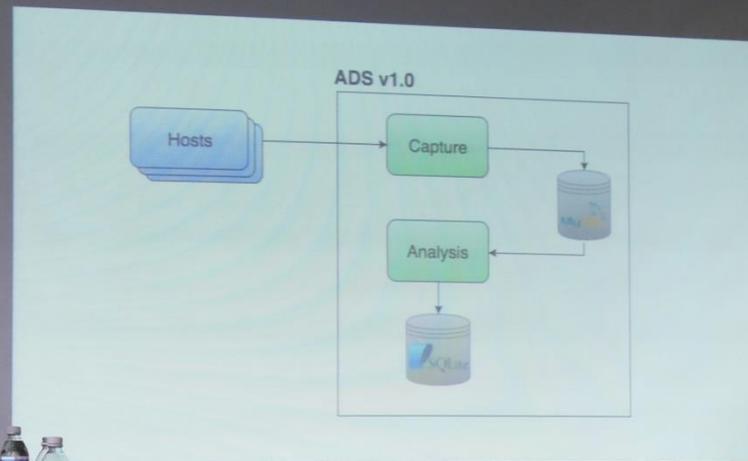


The Media

Design Day Awards

- Awards
 - Auto-Owners Exposition Award
 - MSUFCU Praxis Award
 - TechSmith Screencast Award
 - Urban Science Sigma Award
- ~16 Judges
- Based On
 - Project Plan (Due When?)
 - Project Video
 - Design Day
 - Exposition
 - Presentation to Judges





Presenting to Judges



Presenting to Judges



Team Rook Wins MSUFCU Praxis 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
- ~7-10 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 in Telecomm Sound Studio
- 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](#)
 - Look at Previous Videos
- Voiceover
 - Try TeleCom Recording Studio ASAP
 - Figure Out
 - ❖ How to Sign Up
 - ❖ Where It Is
 - ❖ How To Use It
 - 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 2400 EB)
 - 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 1145 EB)
- Rendering
 - Try Samples
 - In Advance
 - Takes a Long Time
 - Do NOT Press Render Button One Hour Before Due
- Due
 - By 2pm on Monday, April 24
 - Via USB Stick to Dr. D. in Office
- Posted Immediately for Judges



Project Videos

- See [Archives > Websites By Semester](#)
- See Design Day > Awards
TechSmith Screencast Award
- Examples
 - Meijer
[Mobile Location-Based Product Promotion](#)
 - Whirlpool
[Laundry: Laundry Room Tablet Payment System](#)
 - Ford
[SYNC Calendar](#)

