

MICHIGAN STATE
UNIVERSITY

03/16:

Design Day and the Project Video

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University

Spring 2015



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

What's ahead?

(1 of 2)

- Week 09
 - 03/16: Design Day and the Project Video
 - 03/18: Camtasia Demo
- Week 10
 - 03/23: Intellectual Property
 - 03/25: Ethics and Professionalism
- Week 11
 - 03/30: Team Status Reports
 - 04/01: Team Status Reports
- Weeks 12, 13
 - 04/06, 04/08, 04/13, 04/15
 - Beta Presentations



**Email legitimate conflicts by
March 25.
If you've already emailed me
a conflict, email it again.**

What's ahead

(2 of 2)

- Week 14
 - 04/20: Project Video Status Reports
 - 04/22: Status Reports
- Week 15
 - 04/27: Project Videos
 - 04/29: Project Videos and All Deliverables
 - 04/30: Design Day Setup
 - 05/01: Design Day
- Week 16
 - 05/06: Project Videos
 - EB 2250, 3:00 p.m. – 5:00 p.m.

Design Day Overview

- Engineering Building
- Friday, May 1, 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. Debriefing Meeting
 - All-Hands
 - Families and Friends
 - Judges
 - Corporate Visitors





CSE Students Ready to Go at 7:00am

Team Exhibit

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





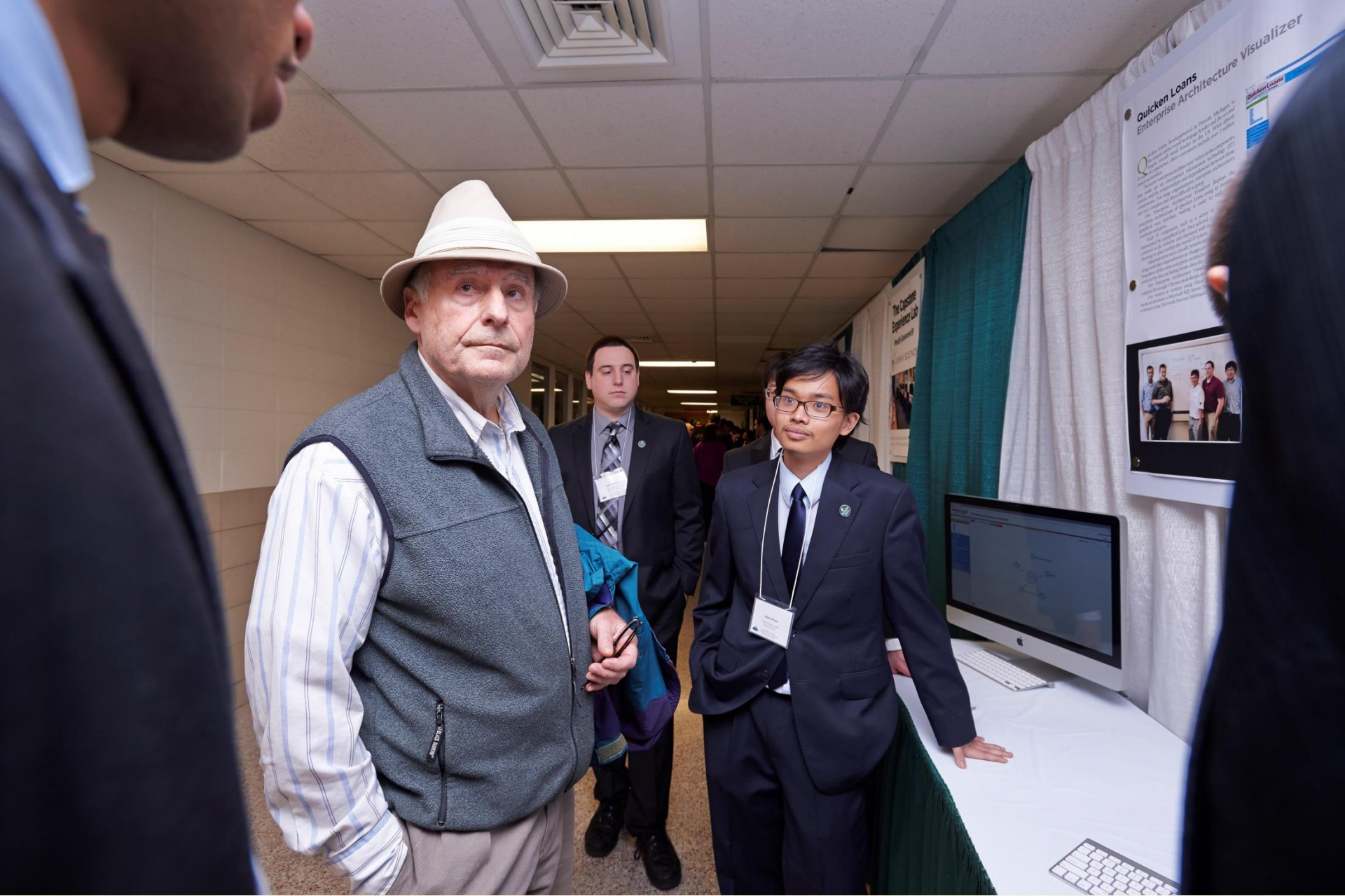
Families



Alumni



Corporate Clients



Faculty



International Visitors



The Media



Dean Leo Kempel

Design Day Awards

- Awards
 - Auto-Owners Exposition Award
 - GM Praxis Award
 - TechSmith Screencast Award
 - Urban Science Sigma Award
- ~12 Judges
- Based On
 - Project Plan (Due When?)
 - Project Video
 - Design Day
 - Exposition
 - Presentation to Judges



Presenting to Judges



Team Meijer Wins Urban Science Sigma Award

Project Video

- Tells Project Story
 - Your Client
 - The “Problem”
 - Your “Solution”
 - Use Case(s)
 - Avoid “Boring” Stuff
 - ❖ Account Creation
 - ❖ “Boring” Administration Details
 - ❖ Zzz...
 - Technical Details
 - Acknowledgements
- 10-12 Minutes in Length
- Professional
- Lots of Work



Project Video How To

(1 of 3)

- Story Board
 - Plan Video and Audio
 - Very Specific
- Capture Audio
 - 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 (Desired)
 - .wmv (Optional)

Project Video How To

(3 of 3)

To Do...

- **Collect Assets**
 - **Audio**
 - Background Music (If Any)
 - Record Voiceover
 - **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 Voiceover Much Louder
 - Test in Room Settings (Like 1225 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 2250 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 27
 - Via USB Stick to Dr. D. in Office
 - Posted for Judges
- Posted Immediately for Judges

Project Videos

- See [Archives > Websites By Semester](#)
- See Design Day > Awards
TechSmith Screencast Award
- Examples
 - TechSmith
[Screen Capture Multi-Image Output Accessory for Snagit](#)
 - Medtronic
[Mobile Health Management System](#)
 - Ford
[Ford Conference Room](#)

