

10/30:

Design Day and the Project Video

[The Capstone Experience](#)

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University

Spring 2013



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

Design Day Overview

- Engineering Building (2nd Time)
- Friday, December 6, 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.





In today's fast-paced, ever-changing world, businesses must be able to stay ahead of the competition. Among other things, such agility requires the ability to hold impromptu meetings.

My Conference Room is a mobile app that enables GM employee groups to identify and book open conference rooms for "spur-of-the-moment" meetings.

Conference room availability is determined easily and quickly with a smartphone by scanning QR (quick response) codes located outside of each conference room.

Based on the QR code, users are automatically directed to a mobile website that shows the room number in a color-coded box that indicates the availability of the room.

If a room is available, users can book the room immediately by pressing the "Book Now" button.

If a room is booked, users can search for nearby available rooms based on the desired duration of their impromptu meeting and the capacity of the room.

My Conference Room displays a variety of information including the room capacity, the next booked appointment and various amenities associated with the room such as Wi-Fi, Smartboards, video conferencing and outdoor views.

CR and ASD.net are the underlying code for the mobile website. Conference room schedules are hosted on Microsoft Exchange Server 2013.



Michigan State University
Team Members (left to right)

Daniel Bachels
West Bloomfield, Michigan

Matthew Sawensky Jr.
Macomb, Michigan

Thomas Smale
Grosse Pointe Farms, Michigan

Jeff Garbach
Novi, Michigan

GM
Project Sponsors

Fred Killean
Detroit, Michigan

Shawn McEachern
Detroit, Michigan

Dan Rudman
Detroit, Michigan

Christian Star
Detroit, Michigan

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 GM Wins Auto-Owners Exposition Award

Project Video

- Tells Project Story
 - The “Problem”
 - Your “Solution”
 - Architecture
 - Some Technical Details
 - Software Demo
 - Acknowledgements
- 10-12 Minutes in Length
- Professional
- Lots of Work

Project Video How To

(1 of 2)

- 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 2)

- Edit
 - Video
 - Audio
 - Use
 - Camtasia
 - Other Software of Your Choice
- Produce
 - .wmv (Required)
 - .mp4
 - .mov

Project Video Hints

(1 of 2)

- Look at Previous Videos
 - See [Archives](#)
 - Look at Previous Videos
- 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
- 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 1225 EB)
- Rendering
 - Try Samples
 - In Advance
 - Takes a Long Time
 - Do NOT Press Render Button One Hour Before Due
- Due
 - By 2pm on Monday, December
 - Via USB Stick to Dr. D. in Office
 - Posted for Judges
- Posted Immediately for Judges



Project Videos

- See [Archives](#)
- Examples
 - TechSmith
[Screen Capture Multi-Image Output Accessory for Snagit](#)
 - Medtronic
[Mobile Health Management System](#)
 - Ford
[Ford Conference Room](#)

