

MICHIGAN STATE  

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UNIVERSITY

10/30:

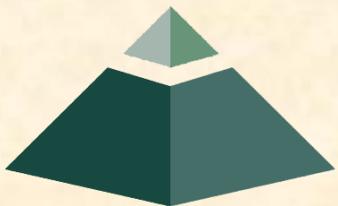
# Design Day and the Project Video

## [The Capstone Experience](#)

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Department of Computer Science and Engineering  
Michigan State University

Spring 2013



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

# Design Day Overview

- Engineering Building (2<sup>nd</sup> 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.



- |   |  |
|---|--|
| <p><b>Michigan State University</b><br/>Team Members (left to right)</p> <p><b>Daniel Bachels</b><br/>West Bloomfield, Michigan</p> <p><b>Matthew Tamowsky Jr.</b><br/>Macomb, Michigan</p> <p><b>Thomas Smale</b><br/>Grosse Pointe Farms, Michigan</p> <p><b>Jeff Guback</b><br/>Novi, Michigan</p> | <p><b>GM</b><br/>Project Sponsors</p> <p><b>Fred Killean</b><br/>Detroit, Michigan</p> <p><b>Shane McCutchen</b><br/>Detroit, Michigan</p> <p><b>Dan Rudman</b><br/>Detroit, Michigan</p> <p><b>Christian Star</b><br/>Detroit, Michigan</p> |
|---|--|



# 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](#)

