

The Computer Science Senior Capstone Experience

CSE498 Collaborative Design

Department of Computer Science and Engineering

Michigan State University

Spring 2010

Professor Wayne Dyksen

Course Objectives

- Complete a Large Software Project
 - Architect
 - Implement
 - Test
 - Document
 - Deliver
- For a Client
- From "Scratch"
- In 15 (Short) Weeks

Course Objectives

- Build and Administer Systems
- Use Advanced Tools And Environments
- Integrate Computer Science Knowledge

Course Objectives

- Work In A Team Environment
- Develop Communication Skills
- Develop Interview Talking Points

All-Hands Meetings

- MW, 3:00-3:50pm, 2400 Engineering Building
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Alpha and Beta Demonstrations
 - Formal Presentations
 - Project Videos
 - Guest Speakers

All-Hands Meeting Agendas

01/11: Course Overview / Course Inventory
01/13: Project Plan / Team Assignments
01/18: (Martin Luther King Day, No Meeting)
01/20: Project Schedule & Risk
01/25: Teams: [Status Reports](#)
01/27: Prototyping
02/01: Teams: [Project Plans](#)
02/03: Teams: [Project Plans](#)
02/08: Teams: [Project Plans](#)
02/10: Teams: [Project Plans](#)
02/15: Resume Writing & Interviewing
02/17: Creating & Giving Presentations
02/22: Teams: [Alpha Demonstrations](#)
02/24: Teams: [Alpha Demonstrations](#)
03/01: Teams: [Alpha Demonstrations](#)
03/03: Teams: [Alpha Demonstrations](#)
03/08: (Spring Break, No Meeting)
03/10: (Spring Break, No Meeting)

03/15: Teams: Status Reports &/or Demos
03/17: Camtasia Demo
03/22: Design Day & the Project Video
03/24: Teams: Status Reports &/or Demos
03/29: Ethics and Professionalism
03/31: Teams: Status Reports &/or Demos
04/05: Teams: [Beta Demonstrations](#)
04/07: Teams: [Beta Demonstrations](#)
04/12: Teams: [Beta Demonstrations](#)
04/14: Teams: [Beta Demonstrations](#)
04/19: Intellectual Property & Copyright
04/21: Teams: Status Reports &/or Demos
04/26: Teams: [Project Videos](#)
04/28: Teams: [Project Videos](#) and [All Deliverables](#)
04/29: Design Day Setup
04/30: [Design Day](#)
05/04: Teams: [Project Videos](#)

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Professor Wayne Dyksen

Auto-Owners Insurance

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property & liability



Car

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guarding your investment

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Team Auto-Owners Insurance Project Overview

Dashboard and Weather Incident Verification System

- Dashboard
 - Weather Incidents
 - Statistical Reporting
 - Informational Reporting
- Weather Incident Verification System
 - Determine Weather Incidents Using Web Services
 - Based on Street Address
 - Used by Claims Associates
- Features
 - Policy Information
 - Emailing Reports
 - Mobile Device Support
- Technologies
 - ASP .NET
 - Visual Studio 2008
 - iPhone, Blackberry
 - Web Services



A photograph of three young men standing in an office. The man on the left is wearing a black and grey argyle sweater over a white collared shirt. The man in the center is wearing a blue button-down shirt and a striped tie. The man on the right is wearing a light green button-down shirt. They are standing in front of a large window and a server rack. The background shows an office environment with a window looking out onto a city.

Joseph
Lockard

Evan
Dontje

Edward
Waller

Team Auto-Owners Insurance
MSU Team Photo



Screen Mockups Cont.

Dashboard and Weather Incident Verification System

SearchOptions Preferences

Results for John Smith on January 1, 2010 Logout

Incident	Approximate Time	Source
Hurricane	6:30pm	FMA
Light Hail	5:30pm	National Weather Service

New Search
Save Results
Email Results

Team Auto-Owners

Team Auto-Owners Insurance
Project Plan Presentation

Team Auto-Owners Insurance Screen Mockups

Dashboard and Weather Incident Verification System

SearchOptions

Preferences

Logout

Policy Holder:

Select a Policy Holder

or

Address: City: State:

Select

Date:

Jan

1

2010

Go

Dashboard and Weather Incident Verification System

SearchOptions

Preferences

Logout

Results for John Smith on January 1, 2010

Incident	Approximate Time	Source
Hurricane	6:30pm	FIMA
Light Hail	5:30pm	National Weather Service

New Search

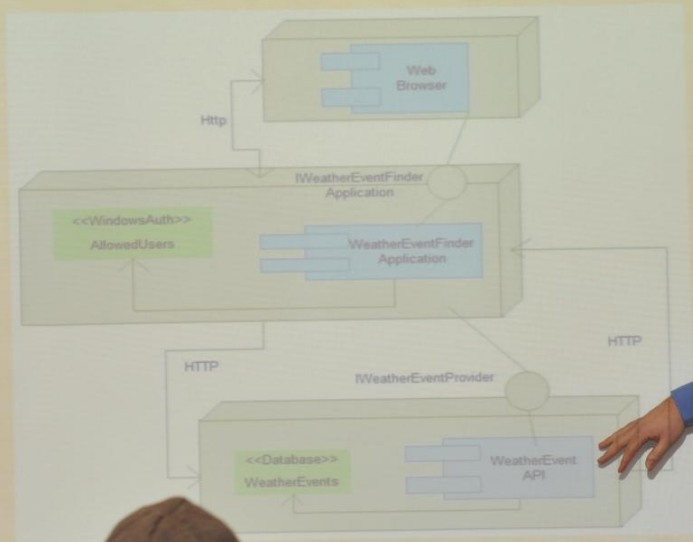
Save Results

Email Results



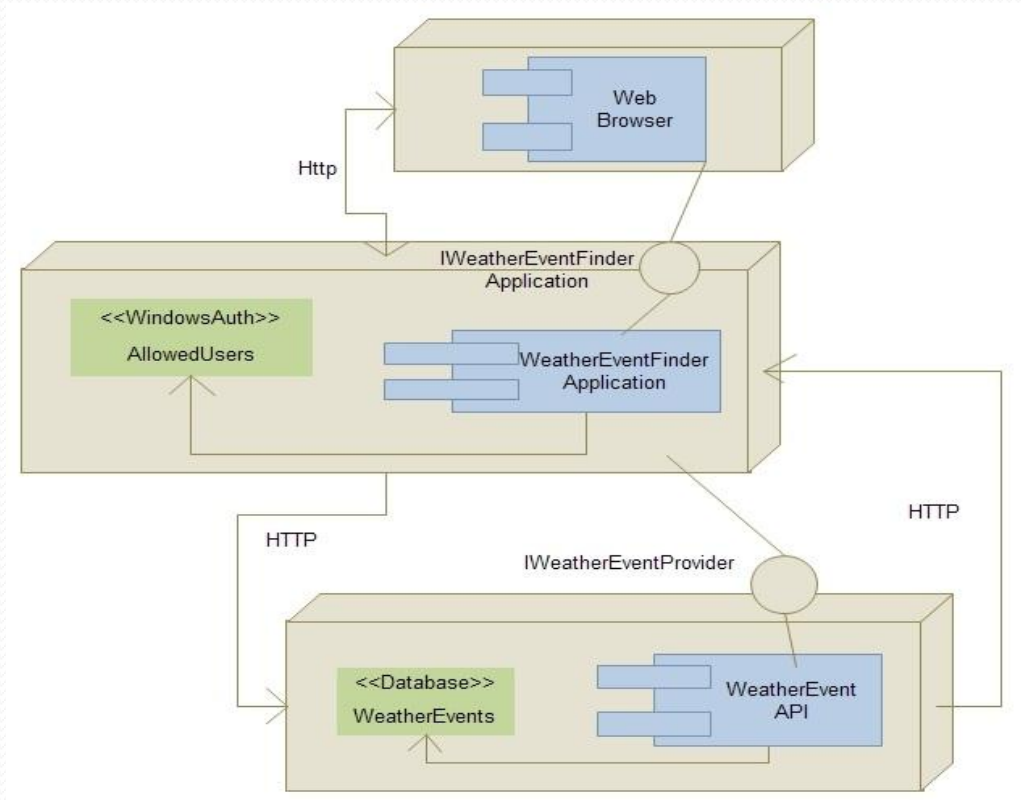
Architecture Illustrated

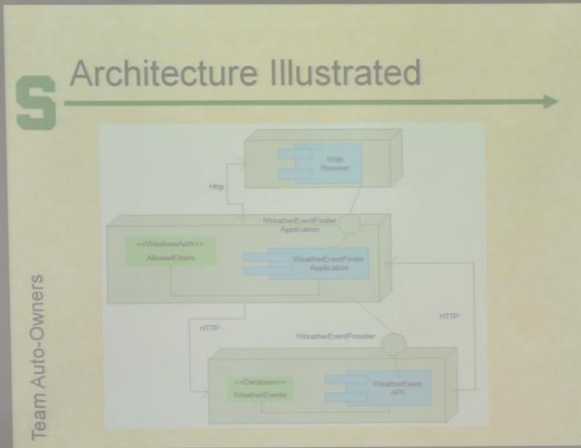
Team Auto-Owners



Team Auto-Owners Insurance
Project Plan Presentation

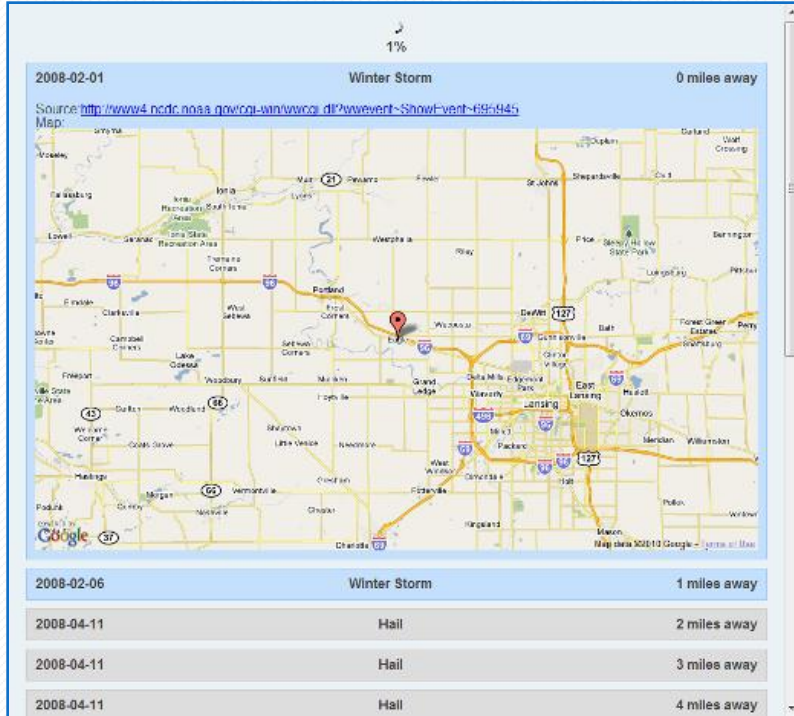
Team Auto-Owners Insurance Architecture Diagram





Team Auto-Owners Insurance
Alpha Demonstration

Team Auto-Owners Insurance Alpha Demonstration



NOAA Satellite and Information Service
National Environmental Satellite, Data, and Information Service (NESDIS)

National Climatic Data Center
U.S. Department of Commerce

DOC > NOAA > NESDIS > NCEC Search Field: Search NCEC

Event Record Details

Event: Flash Flood
State: Michigan

Begin Date: 19 Jun 2009, 21:30:00 PM EST
Begin Location: 2 Miles East of Eagle

Begin LAT/LON: 42°49'N / 84°43'W
County: Clinton

End Date: 20 Jun 2009, 01:26:00 AM EST
End Location: 3 Miles West North West of Wauousta

End LAT/LON: 42°51'N / 84°43'W

Magnitude: 0

Fatalities: 0

Injuries: 0

Property Damage: \$ 0.0K

Crop Damage: \$ 0.0K

Description:

EVENT NARRATIVE: Flooding of Bauer Road with more than six inches of flowing water from the Looking Glass River was reported. A rainfall measurement of 3.75 inches was reported in this location. **EPISODE NARRATIVE:** Thunderstorms developed and moved across Lake Michigan during the evening hours on June 19th. Several hours of intense rainfall occurred starting around 7:00 PM EST. The ground was already saturated from early morning thunderstorms that produced very heavy rainfall. In addition to the heavy rain, severe thunderstorms and tornadoes accompanied the thunderstorms.

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This page dynamically generated 22 Feb 2010 from:
<http://www4.ncdc.noaa.gov/cgi-bin/wvwcgi.dll?wvwcgi-ShowEvent-storms>
Please send questions or comments about this system to Stuart.Hinson@noaa.gov
Please see the [NCEC Contact Page](#) if you have questions or comments.



What's left to do?

- Active Directory Authentication
- Make it pretty
- Extra Credit
 - WSRP
 - Search for incidents in a given radius from location

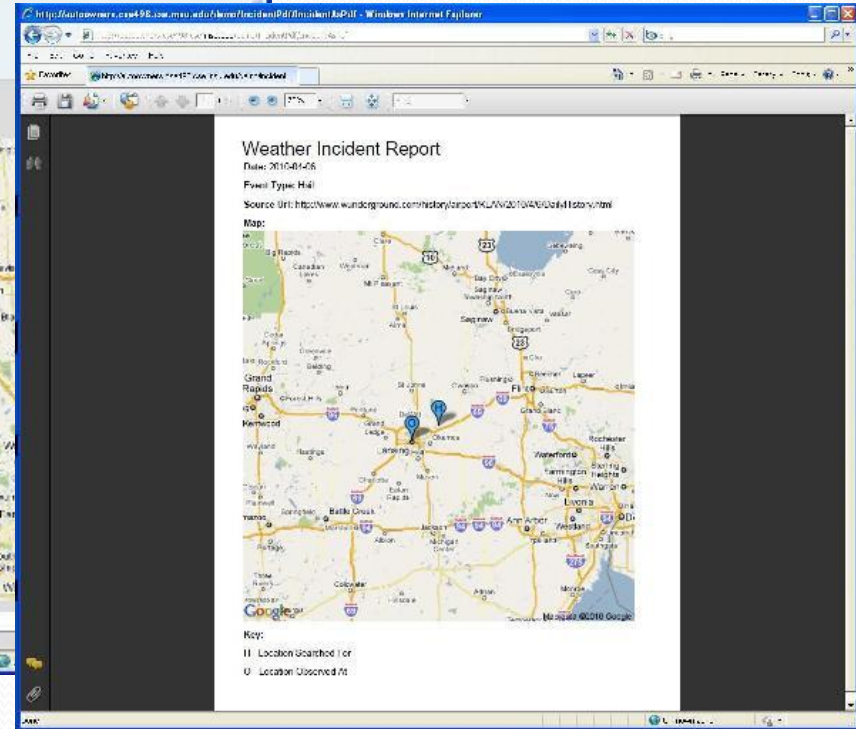
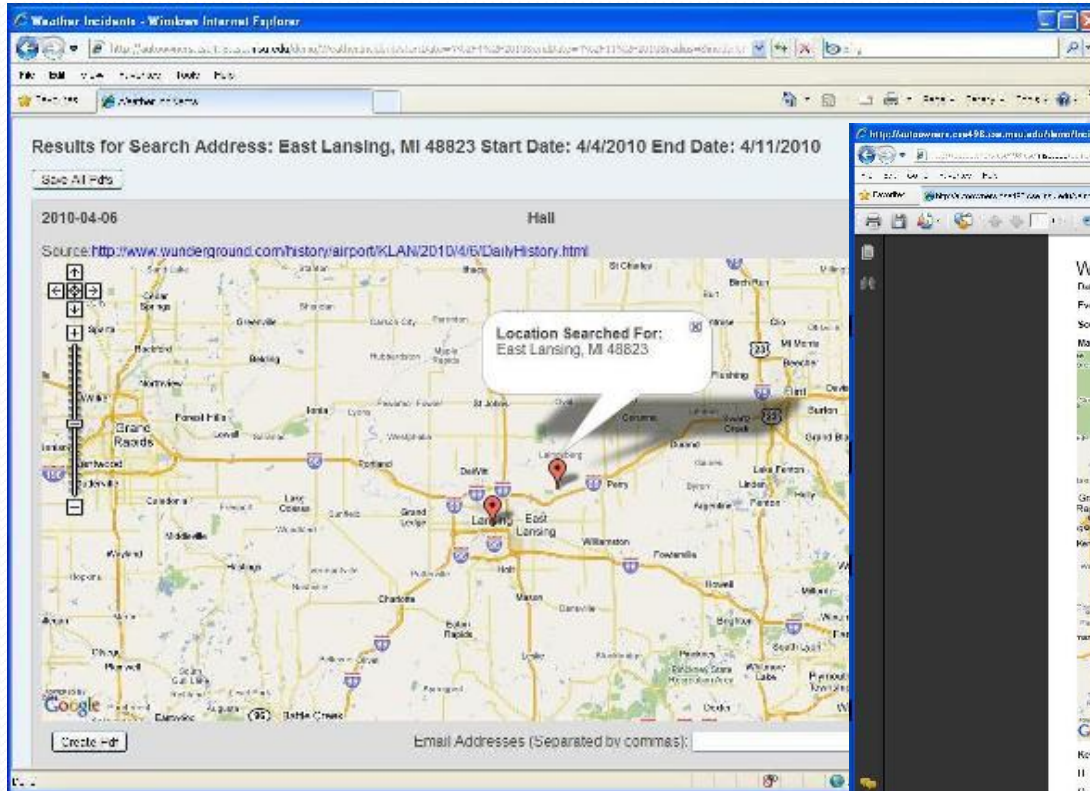
Team Auto-Owners

Team Auto-Owners Insurance
Alpha Demonstration



Team Auto-Owners Insurance Beta Demonstration

Team Auto-Owners Insurance Beta Demonstration





Team Auto-Owners Insurance Beta Demonstration

AUTO-OWNERS INSURANCE WEATHER INCIDENT VERIFICATION SYSTEM

When bad weather happens, insurance companies have their hands full with all the claims they receive. It is the job of the claims associate to determine whether a claim should be accepted or denied.

These often multi-million dollar decisions must be made very carefully. Proper research on recent weather events in the area of the claim will aid the associate in determining its validity.

To aid Auto-Owners Insurance in this research, we have developed a Weather Incident Verification System.

This web application allows a claims associate to easily search the weather history for the location in which the claim was made. The results can then be compared to the claim as well as if a weather event may have caused the damage.

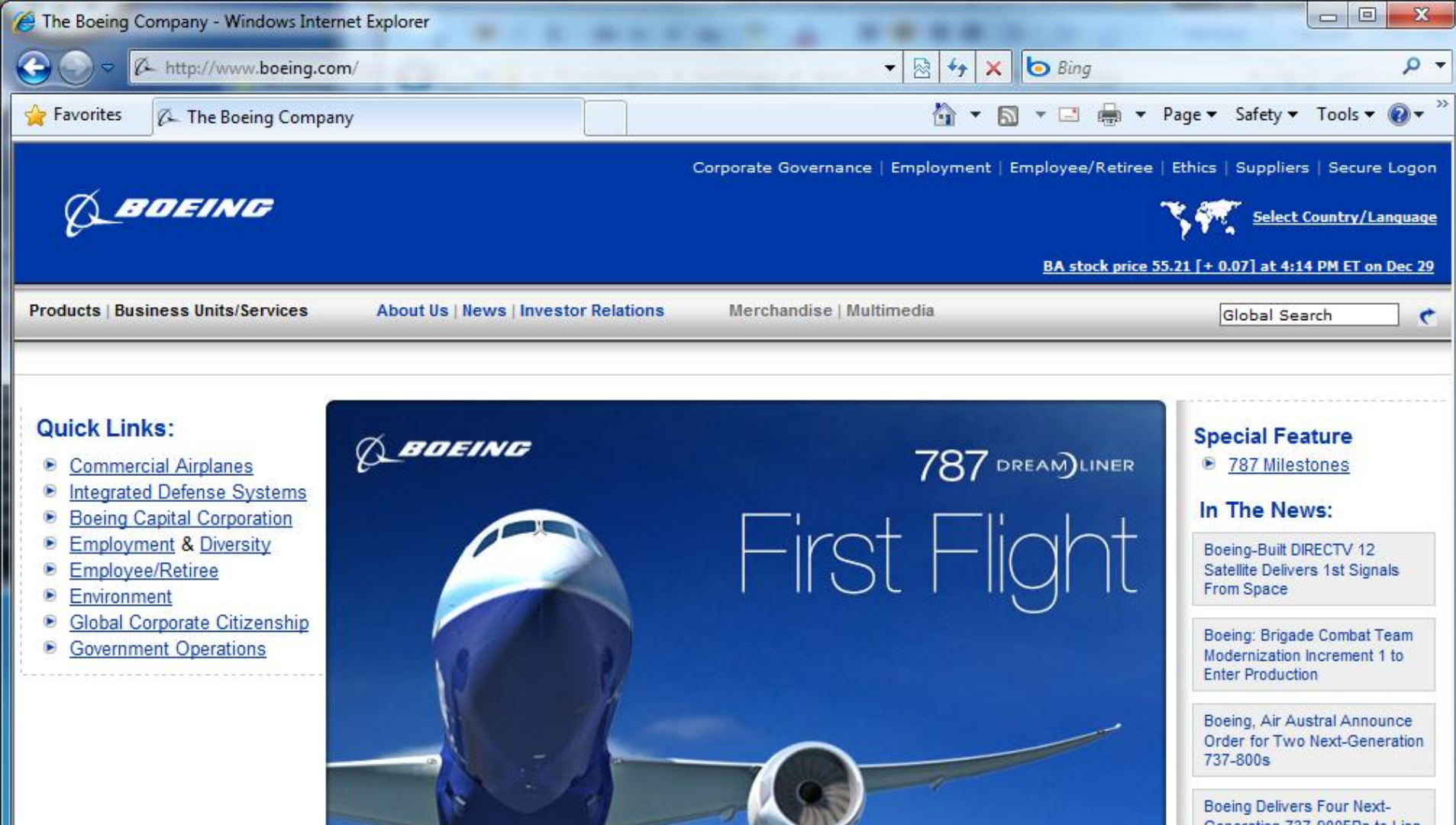
Searching can be done by first entering a date, or date range. Then, the user may enter either an address, or a specific latitude and longitude. Policyholders can be searched by last name to look up their address as well.

Once the associate submits the information, the results are neatly displayed along with a map of the area. Individual events can be clicked on for more detailed information. Results can also be saved to a file for recordkeeping.

Although this program cannot decide the validity of the claim on its own, it may provide valuable information for the claims associate to consider in their decision.



Team Auto-Owners Insurance
Design Day



Quick Links:

- ▶ [Commercial Airplanes](#)
- ▶ [Integrated Defense Systems](#)
- ▶ [Boeing Capital Corporation](#)
- ▶ [Employment & Diversity](#)
- ▶ [Employee/Retiree](#)
- ▶ [Environment](#)
- ▶ [Global Corporate Citizenship](#)
- ▶ [Government Operations](#)



787 DREAMLINER

First Flight

Special Feature

- ▶ [787 Milestones](#)

In The News:

Boeing-Built DIRECTV 12
Satellite Delivers 1st Signals
From Space

Boeing: Brigade Combat Team
Modernization Increment 1 to
Enter Production

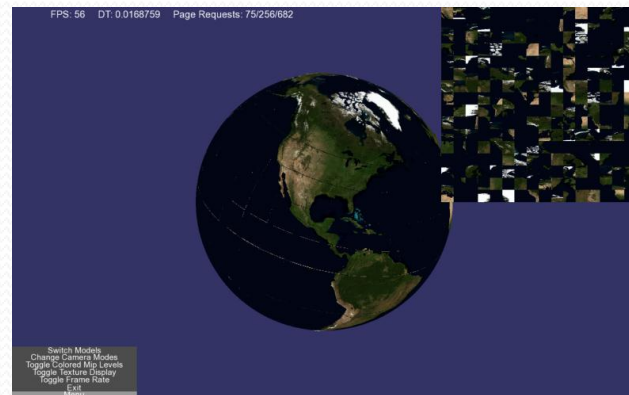
Boeing, Air Austral Announce
Order for Two Next-Generation
737-800s

Boeing Delivers Four Next-
Generation 737-900ERs to Lion

Team Boeing Project Overview

XML Texture Composition

- OSG Plugin for Boeing Modeling & Simulation Applications
 - Enable Visual Replay of Simulation Activity
 - Enhance Special Effects and Realism
 - Use Sparse Virtual Texturing
- XML Texture Composition Capability
 - Extend Capstone [Sparse Virtual Texturing](#), Fall 2009
 - Apply Multiple Textures to a Specific Geographic Location
 - Manage Exclusiveness, Inclusiveness, and Priority
- Runtime Capability
 - Add Inset (Image) to the Terrain
 - At Current Viewer Resolution
 - Inside Specified Bounding Box
- Technologies
 - Sparse Virtual Texturing
 - OpenSceneGraph
 - Texture Composition
 - C++ and OpenGL Threads



A group of four people, three men and one woman, are standing in front of a large window. From left to right: a man with glasses in a black shirt, a man in a striped shirt and tie, a man in a blue shirt and tie, and a woman with long blonde hair in a white shirt. The background shows a cityscape through the window.

Jeremiah
Cunningham

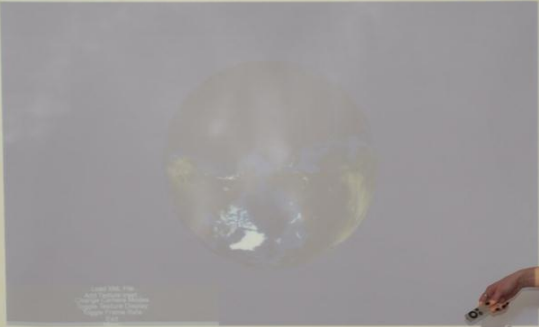
Marc
Coleman

Jonathan
Harris

Jessica
Parks

Team Boeing
MSU Team Photo

S Screen Mockups

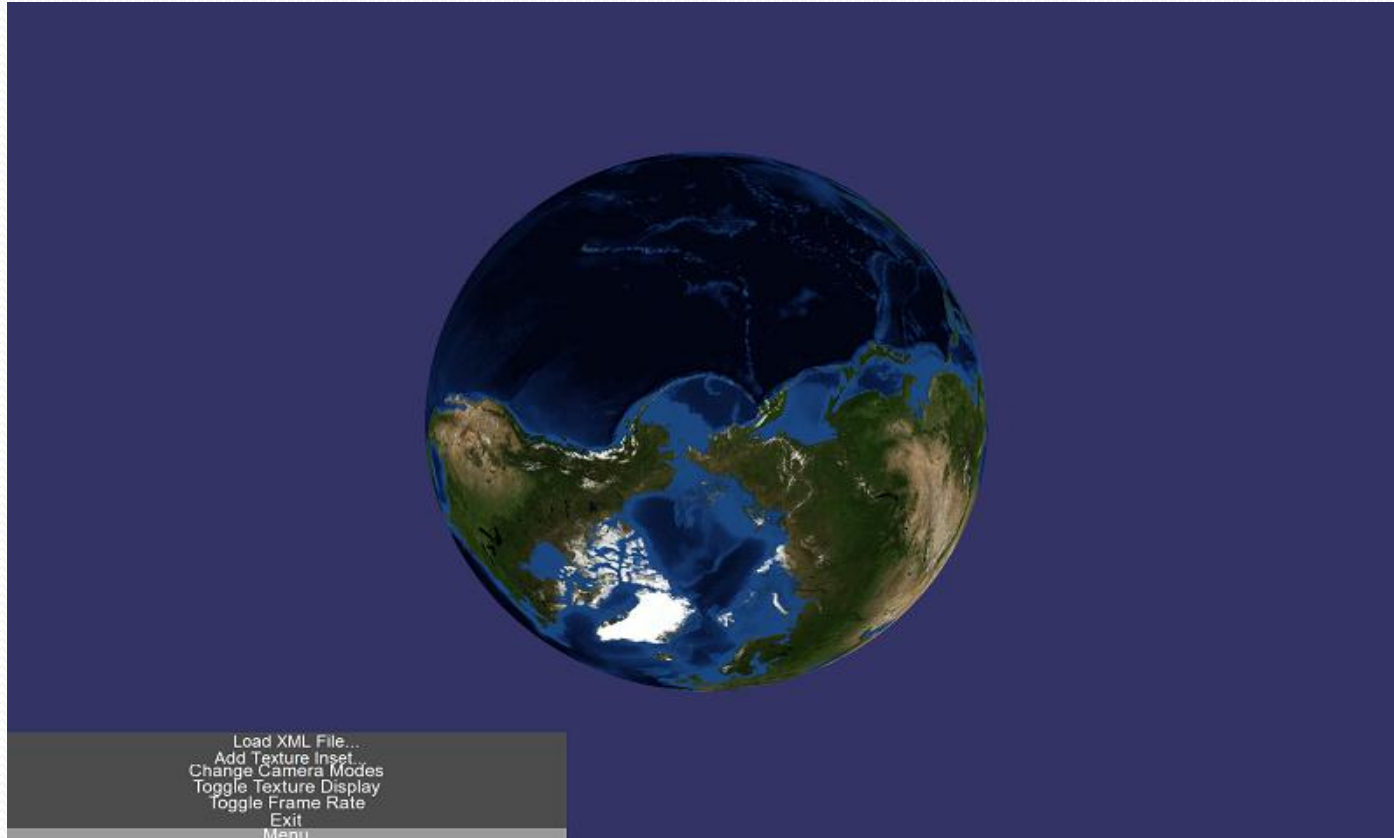


Team Boeing

BOEING

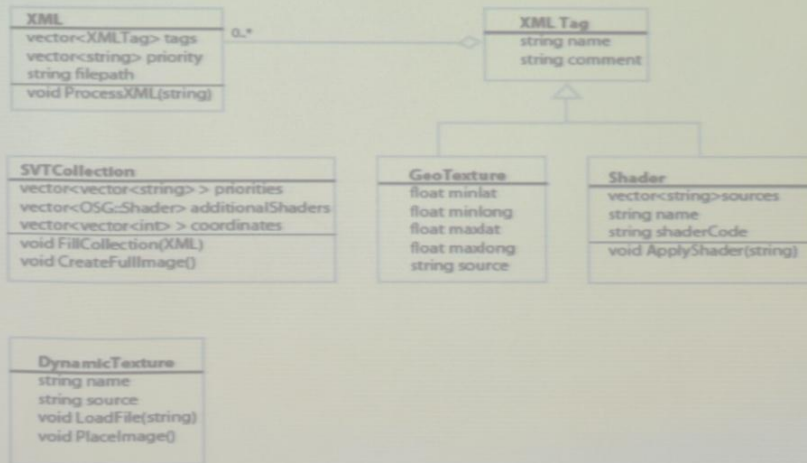
Team Boeing
Project Plan Presentation

Team Boeing Screen Mockup

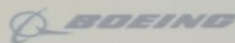


S

Architecture Illustrated



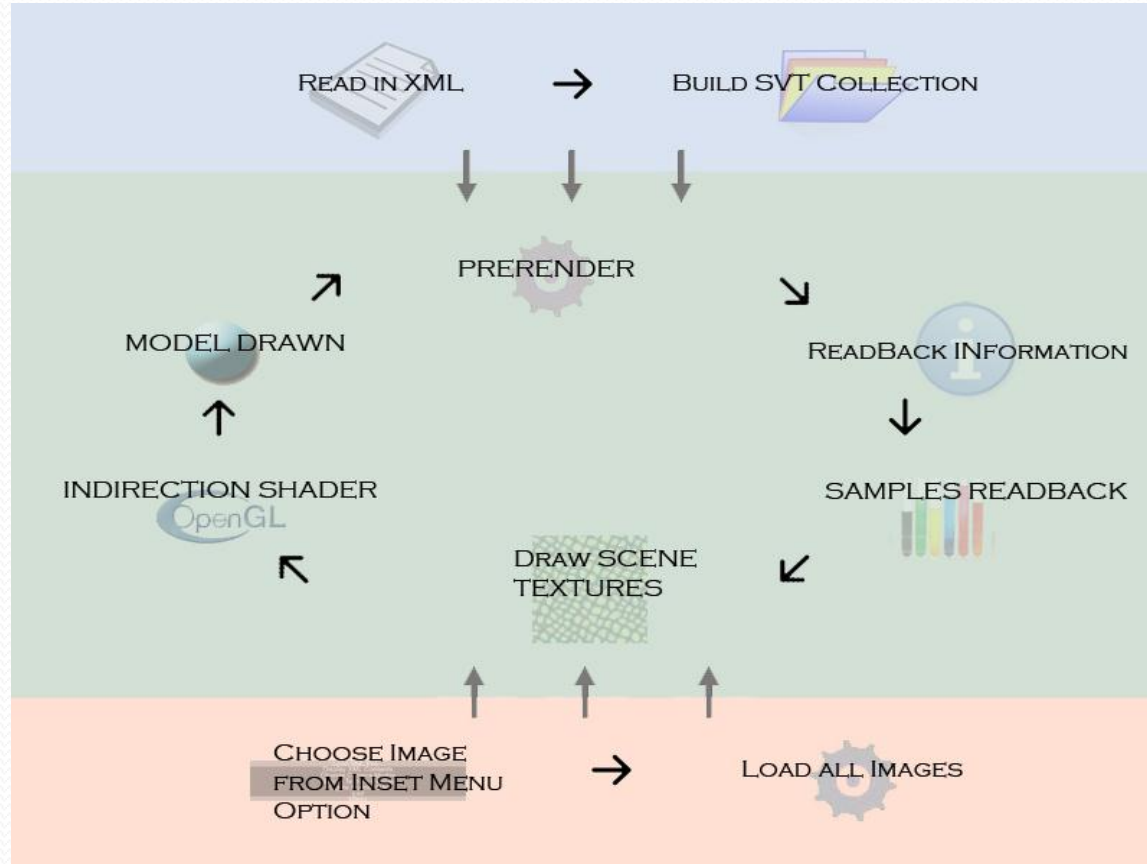
Team Boeing



8

Team Boeing
Project Plan Presentation

Team Boeing Architecture Diagram



Architecture Illustrated



Team Boeing
Alpha Demonstration

Team Boeing Alpha Demonstration



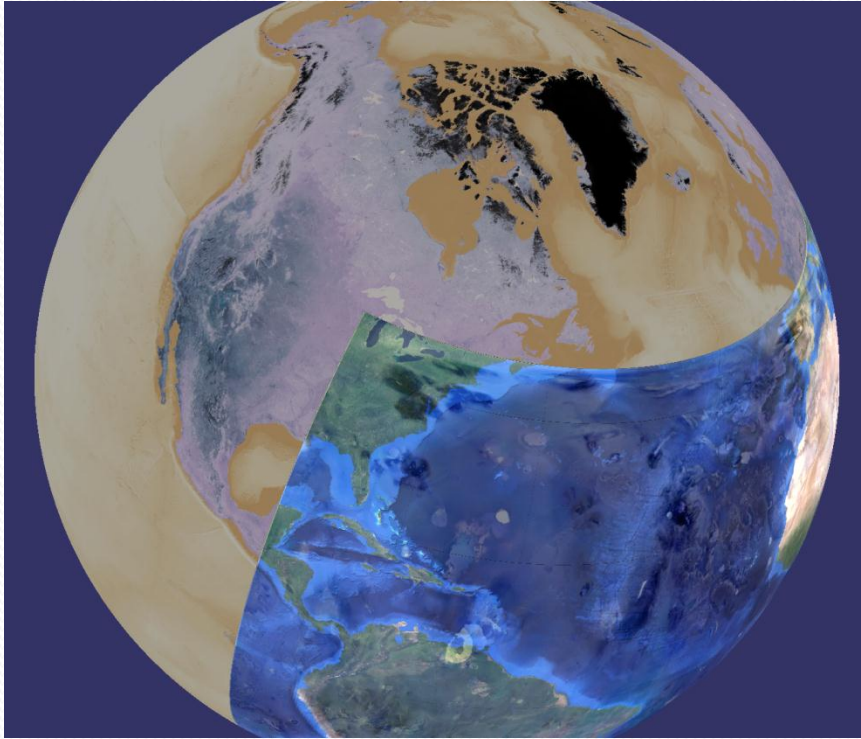


Team Boeing Alpha Demonstration



Team Boeing
Beta Demonstration

Team Boeing Beta Demonstration





Team Boeing
Beta Demonstration



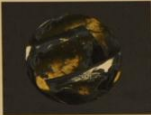
THE BOEING COMPANY
XMLTEXTURE COMPOSITION

The amount of memory and power needed in graphics processing today is continually growing. Applications need a way to get as much detail and texture out of as little memory as possible. Utilizing Sparse Visual Texturing technology, the XML Texture Composition project allows ways to manipulate multiple image textures and draw them in a 3D model. The current format must maintain the amount of memory required to draw high-resolution images. The location and priority of how those textures are drawn will be decided through an XML text document loaded into the application.

Previous applications only allow one sparse visual texture to wrap around the entire 3D object. This restriction does not allow Sparse Visual Textures to be used to their maximum potential. The XML Texture Composition project extends this technology's functionality. Currently, multiple textures can be applied to models as they provide user specified locations determined by the text developer.

The final format of this project includes a scene engine that allows the user to select an image and a location from a dialog box and place it in top priority on the 3D model at the specified location.

The XML Texture Composition project is implemented as an extension to Open Scene Graph. This project will also be integrated with the Boeing Company's modeling and simulation software.



Michigan State University
Team Boeing (left to right):
Jonathan Campbell, Graphic Designer
Adam Campbell, Graphic Designer
Jonathan Harris, Graphic Designer
David Loring, Michigan
James Potts, Graphic Designer
David Wilson, Michigan

The Boeing Company
Graphic Design:
Adam Campbell, Michigan
David Loring, Michigan
Jonathan Harris, Michigan
James Potts, Michigan
David Wilson, Michigan
Jonathan Campbell, Michigan
Adam Campbell, Michigan
Jonathan Harris, Michigan
David Loring, Michigan
James Potts, Michigan
David Wilson, Michigan



Team Boeing
Design Day



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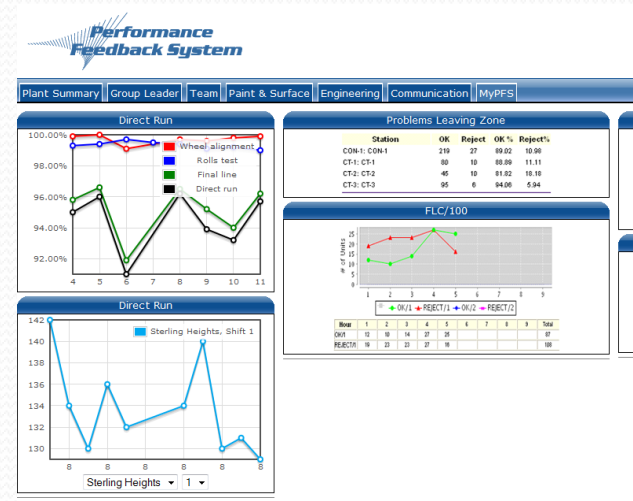
Replay video >



Team Chrysler Project Overview

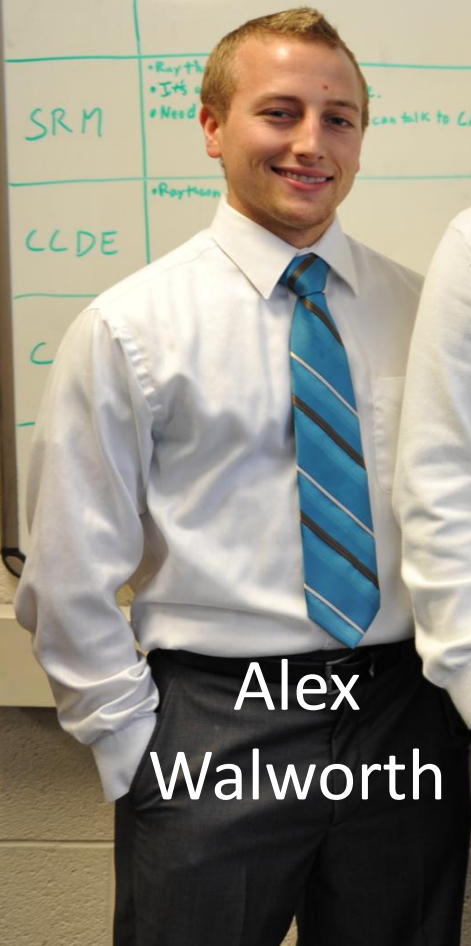
Manufacturing Dashboard Migration

- Existing Manufacturing Dashboard
 - Meets Current Business Partners' Requirements
 - Prior to Industry Standards and Software Packages
 - Difficult to Provide New Functionality
- New Manufacturing Dashboard
 - Executive Level to Plant Floor Personnel
 - 50 Real-time Charts and Graphs
 - News and Events
 - Focus on Warren Stamping Plant
 - SharePoint Portal
- Technologies
 - Microsoft SharePoint Services
 - SQL Reporting Services
 - RDBMS Technologies (UDB, Sybase, DB2)
 - Performance Point



CHRYSLER

Part	Know	Don't Know
CAC	• Raytheon Provides. • Front end of system, GUI.	• When will it be done? • Do we need an SDK?
SRM	• Raytheon Provides. • It's a... can talk to CAC • Need...	• When will it be done?
CLDE	• Raytheon...	• More from CLA to control?



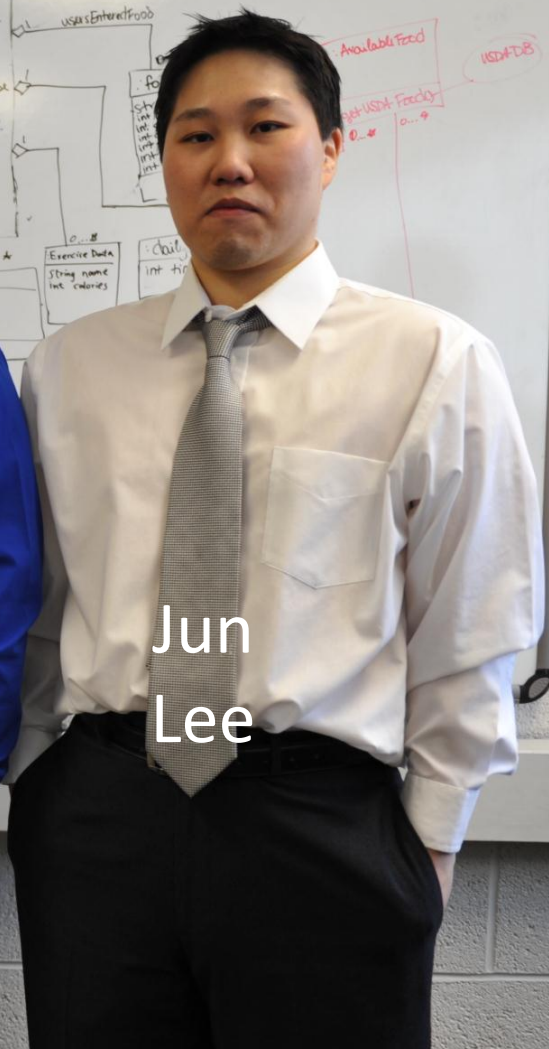
Alex
Walworth



Jong
Jang



Ben
Pedersen



Jun
Lee

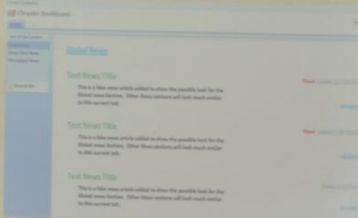
Team Chrysler
MSU Team Photo

S Screen Mockups



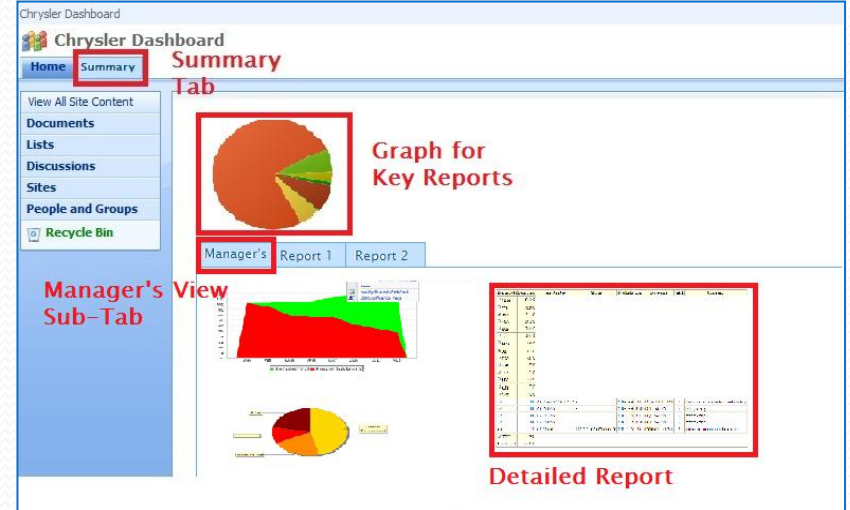
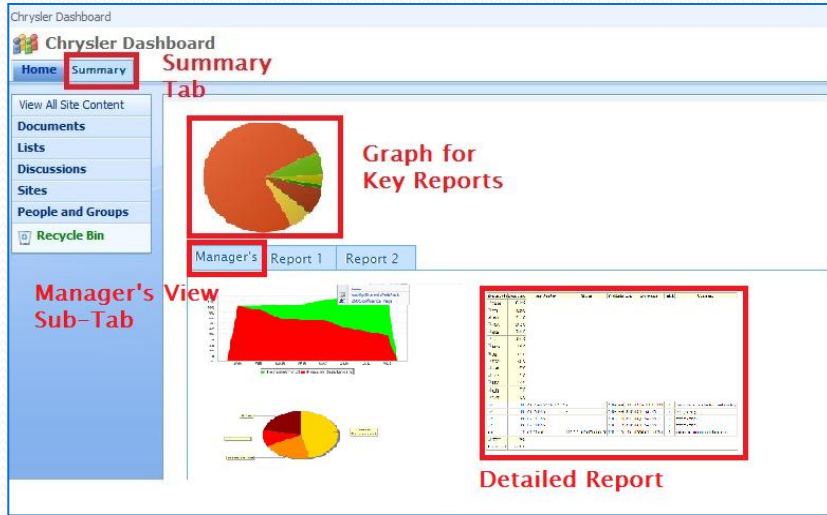
Summary/Manager's View Mockup
(above)

Warren Stamping Plant News View
(below)

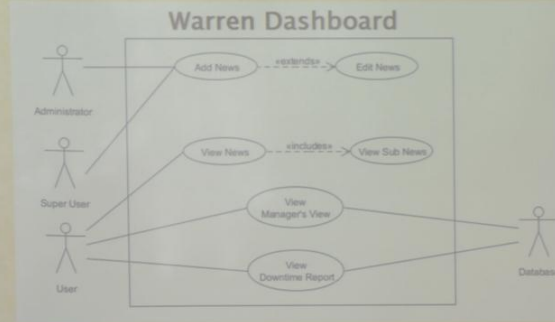


Team Chrysler
Project Plan Presentation

Team Chrysler Screen Mockups



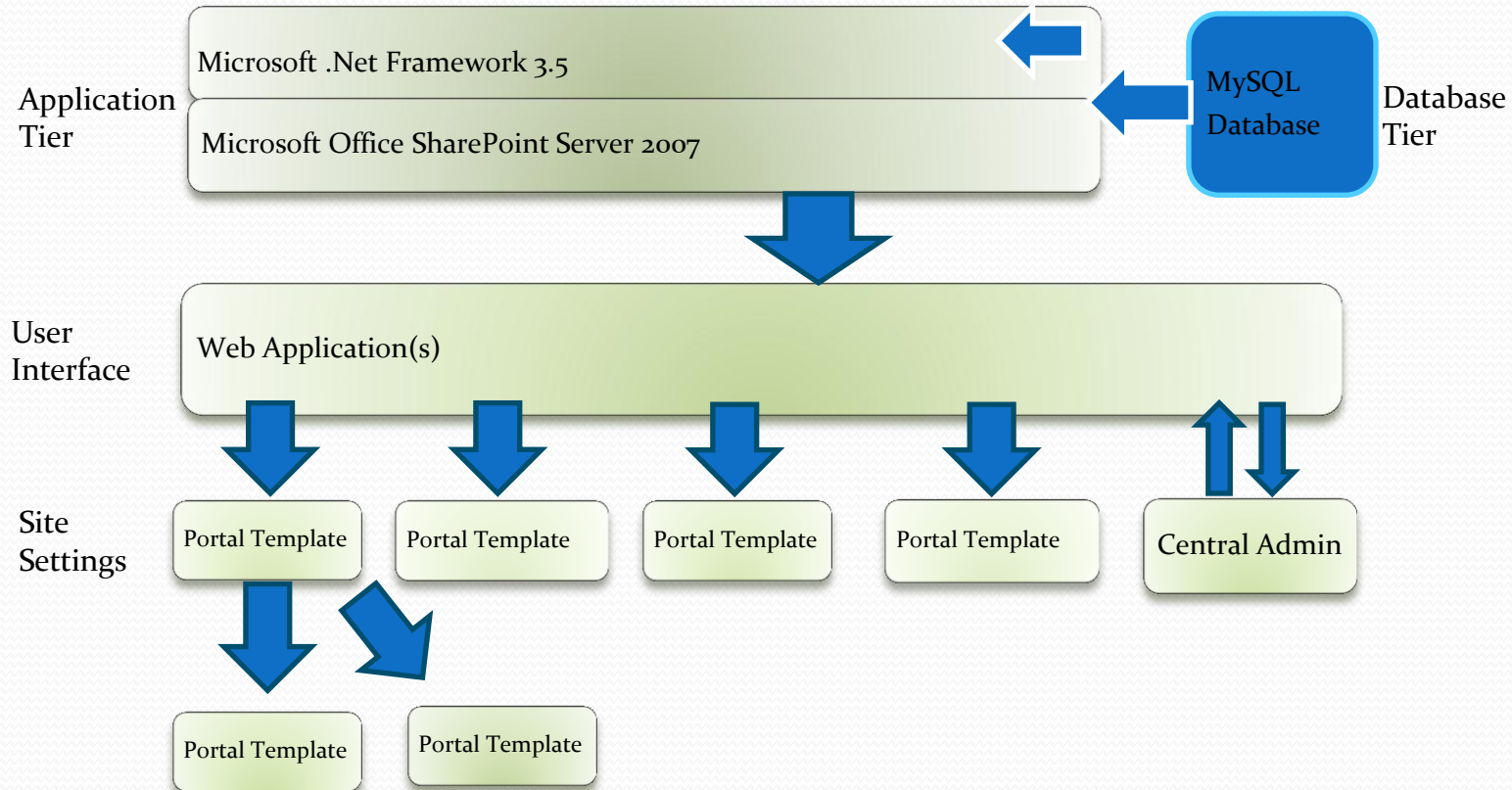
S Architecture Illustrated

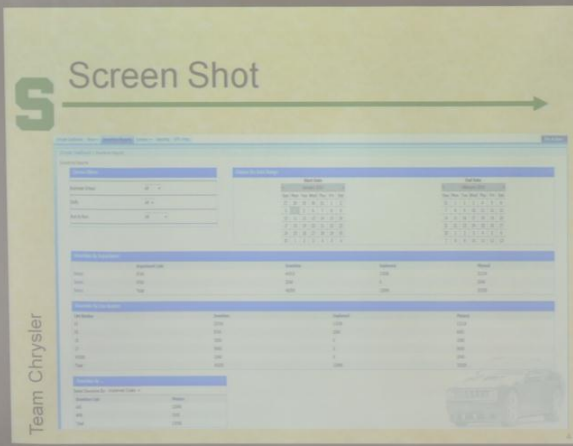


Team Chrysler

Team Chrysler
Project Plan Presentation

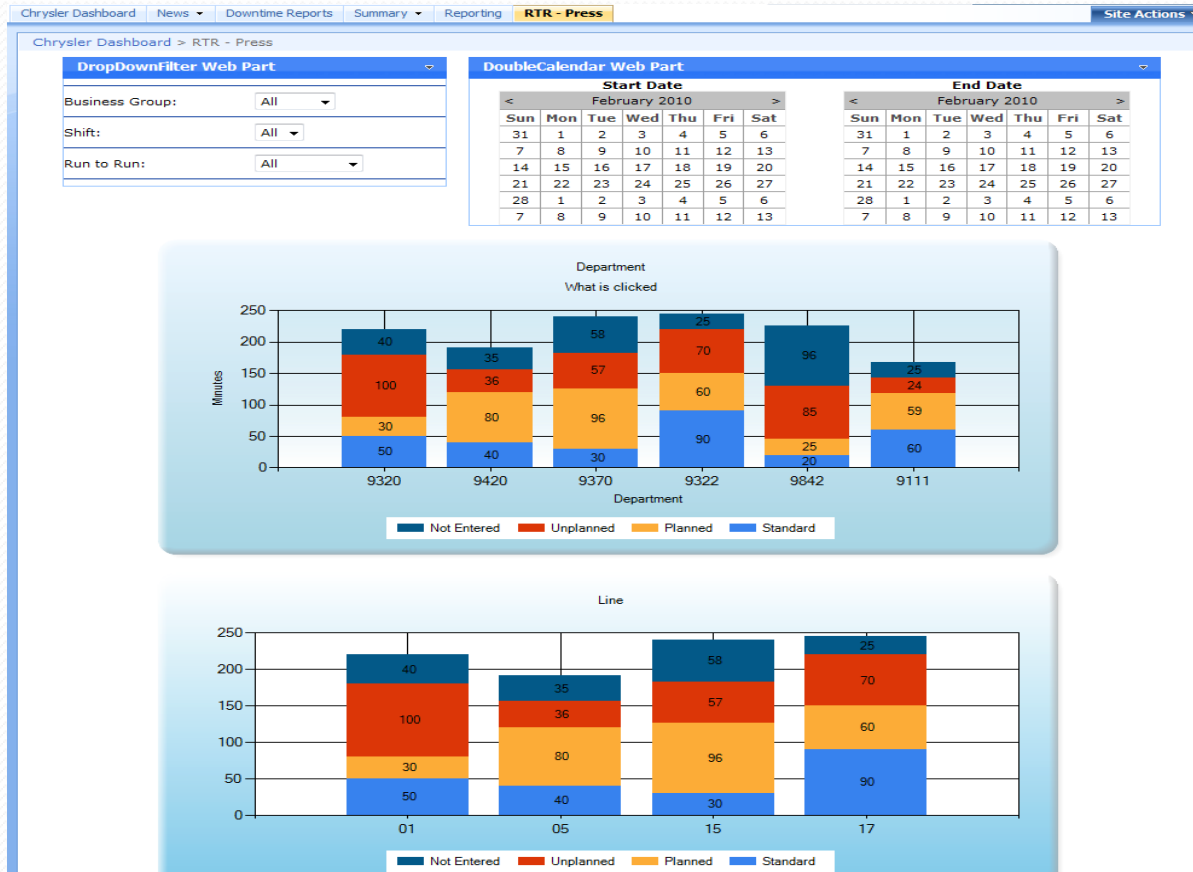
Team Chrysler Architecture Diagram

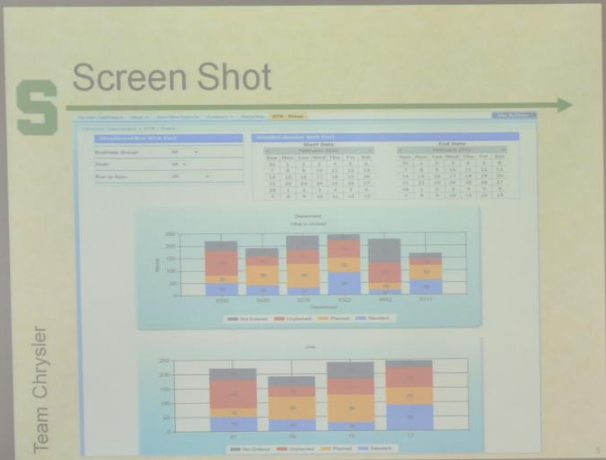




Team Chrysler
Alpha Demonstration

Team Chrysler Alpha Demonstration





Team Chrysler
Alpha Demonstration



Team Chrysler Beta Demonstration

Team Chrysler Beta Demonstration



WarrenNews

Warren Dashboard **WarrenNews** Summary Downtime Reports RTR - Press Unit Production

Warren Dashboard > WarrenNews

Warren Stamping News

4/6/2010

New Shift Changes Coming soon

New shift changes will be implemented soon for all workers at the Warren Stampi

A Blog is a site designed to help you share information. Blogs can be used as new team sites, and more. It is your place on the World Wide Web.

Blogs are typically displayed in reverse chronological order (newest entries first), short postings. With this Blog, it is also possible for your site visitors to comment

In business, Blogs can be used as a team communication tool. Keep team members central place for links, relevant news, and even gossip.

Posted at 3:57 PM by CSE498T03S\walwor11 | [Permalink](#) | [Email this Post](#) | [Com](#)

Summary

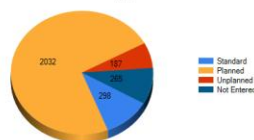
DropDownFilter_Summary Web Part

Choose Summary of:

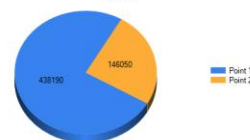
Both

PieChart Web Part

RTR

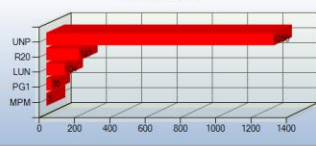


Production



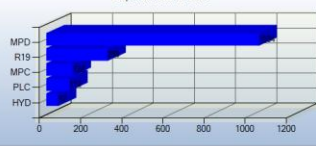
PlannedChart Web Part

Planned Downtime Code



UnplannedChart Web Part

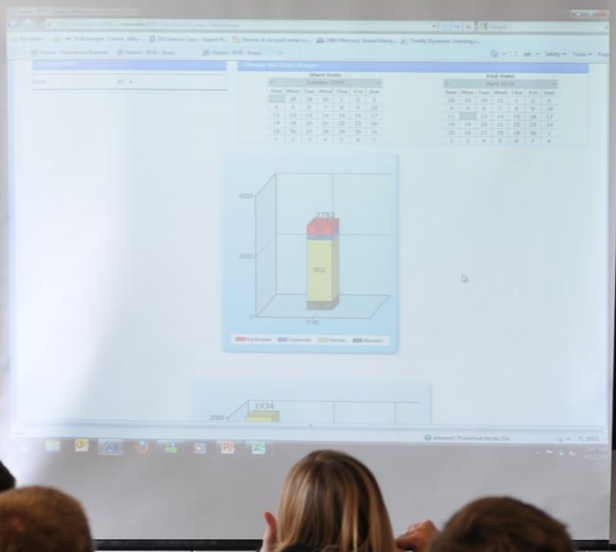
Unplanned Downtime Code



Calendar_Summary Web Part

Start Date							End Date						
September 2009							April 2010						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5	28	29	30	31	1	2	3
6	7	8	9	10	11	12	4	5	6	7	8	9	10
13	14	15	16	17	18	19	12	13	14	15	16	17	18
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29		1	2	3	25	26	27	28	29	30	1
4	5	6	7	8	9	10	2	3	4	5	6	7	8





Team Chrysler
Beta Demonstration

Team Chrysler Design Day

CHRYSLER GROUP LLC MANUFACTURING DASHBOARD MIGRATION

Currently Chrysler uses a dashboard to track key performance indicators for all of their plants. Managers can review this data to determine if company goals are being met and where improvements need to be made.

However, the current dashboard is a custom made solution that has grown increasingly difficult to maintain and improve. Our project is to re-design this dashboard using modern methods, particularly Microsoft SharePoint Server, while preserving the functionality of the original. To make the project feasible within a semester, we focused on the Warren Stamping plant.

While the first goal of the dashboard migration is to increase maintainability, the second is improving usability. Currently the dashboard offers a large variety of reports. Part of our task is to reduce the number of reports while providing the same information via drill down capability. If a particular piece of data presented in a table or chart is interesting to a user, they can click on it and get an expanded view.

On the right you can see an example page from our dashboard. This page displays downtime for parts of the plant and offers the users several filters for which data is displayed. In addition, when a department and line are selected from the tables at the top, the remaining tables reflect only data for that line.

Along with displaying overall performance data, the site will contain a more advanced news section. This section will display the overall news of the plant, as well as more specific news, such as Financial, Corporate, and Human Resources.



CHRYSLER



Michigan State University

Team Members (left to right)

Adam Wessels

George, Michigan

Adam Wessels

George, Michigan

Adam Wessels

George, Michigan

Adam Wessels

George, Michigan

Chrysler Group LLC

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12,405,144^{*} hours

The GE90 reaches 10 million hours of flight

^{*} Estimated based on fleet averages

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GENx-2B First Engine to Test

GE's GENx-2B engine for the new Boeing 747-8 airplane achieves 70,000 Lbs. takeoff thrust in first test.



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OnPointSM

Interactive

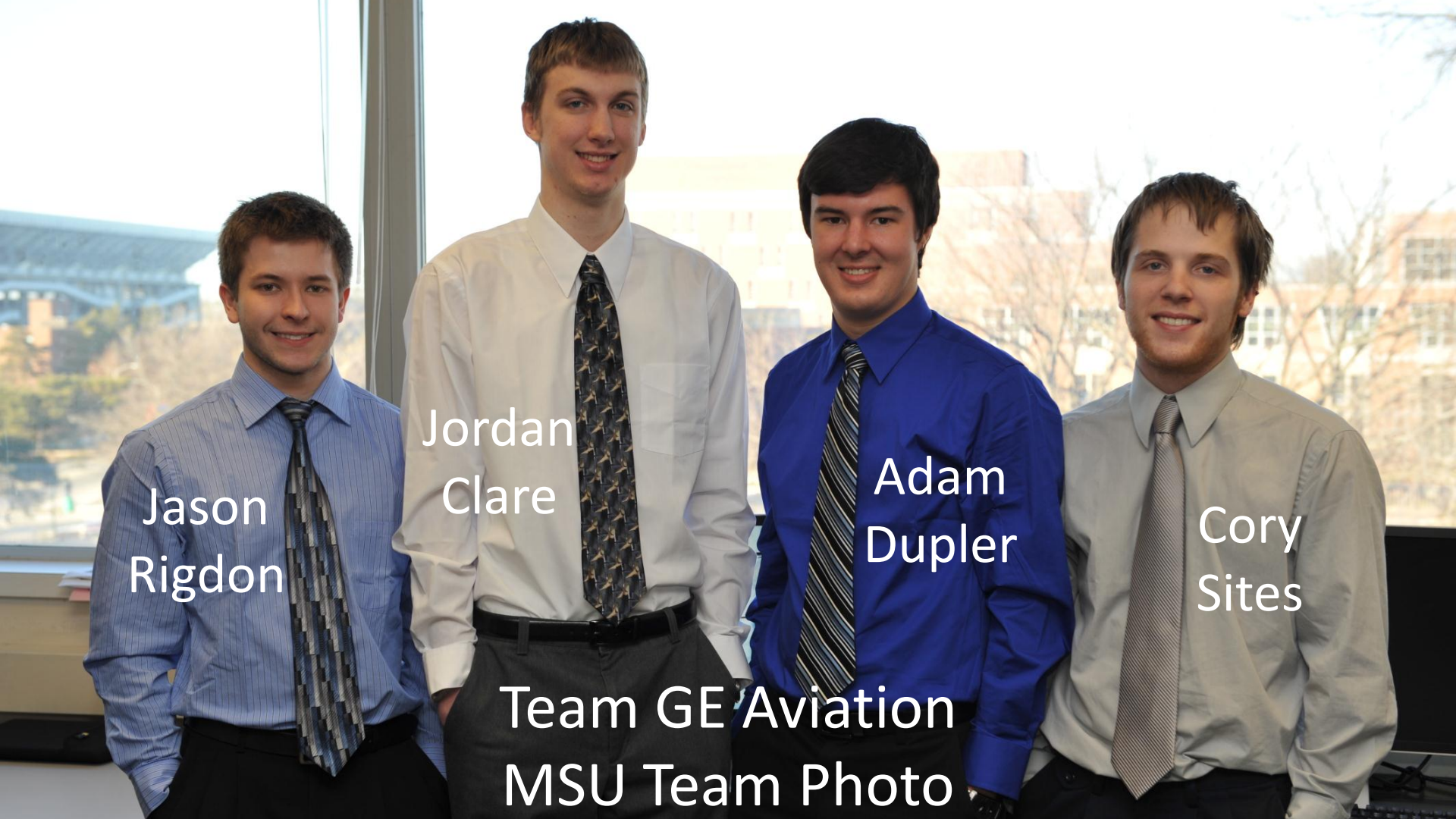


Team GE Aviation Project Overview

Flight Deck Lateral Map Display

- Lateral Map Display
 - Top Down View of Aircraft's Situation
 - Features
 - Present Position
 - Heading
 - Ground Speed
 - Terrain
 - Weather
 - Flight Plan Line
 - Waypoints
 - Selectable Navigation Aids
 - Geopolitical Features
 - Interactivity
 - Etc.
- Integrate With XPlane
- Technologies
 - Map and Terrain Databases
 - Open GL, GL Studio
 - XPlane
 - Capstone [Synthetic Vision Display](#), Fall 2009



A group photo of four young men standing in front of a large window. They are all smiling and wearing business attire (shirts and ties). The man on the far left is wearing a light blue striped shirt and a dark tie. The man second from the left is wearing a white shirt and a dark tie with a small pattern. The man third from the left is wearing a blue shirt and a striped tie. The man on the far right is wearing a light gray shirt and a light-colored tie. The background shows a view of a city with buildings and trees.

Jason
Rigdon

Jordan
Clare

Adam
Dupler

Cory
Sites

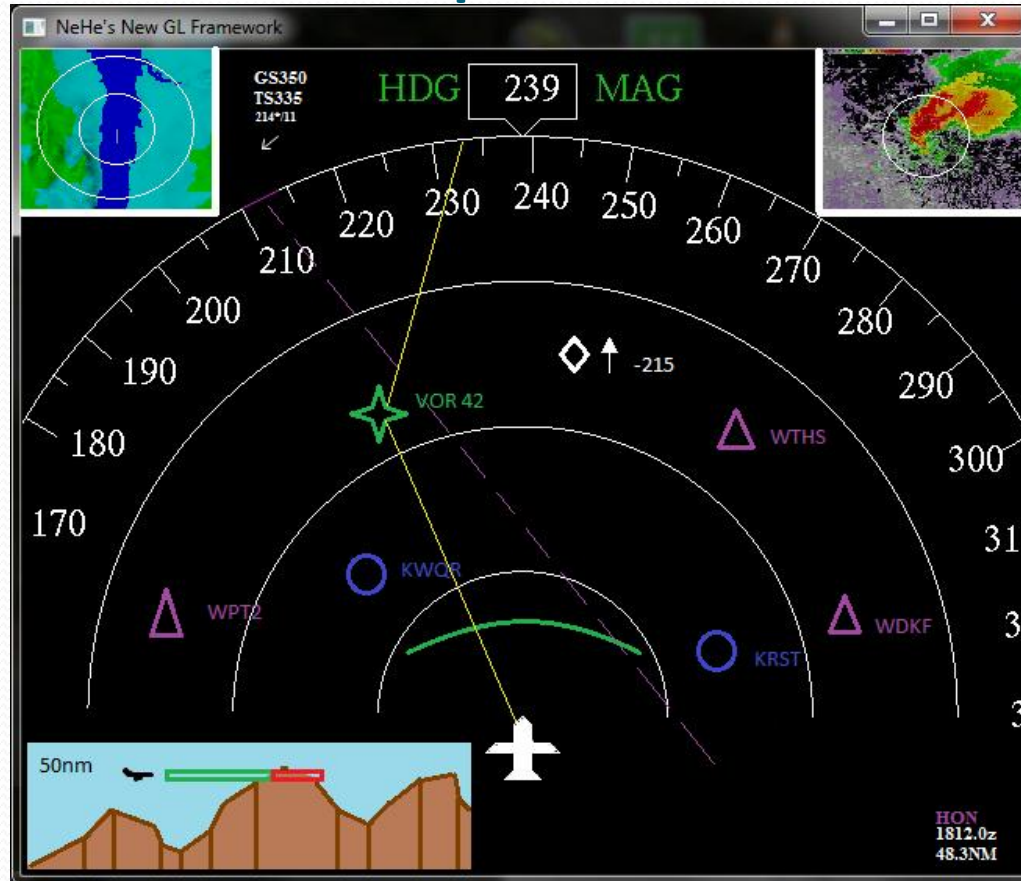
Team GE Aviation
MSU Team Photo

S Screen Mockups



Team GE Aviation
Project Plan Presentation

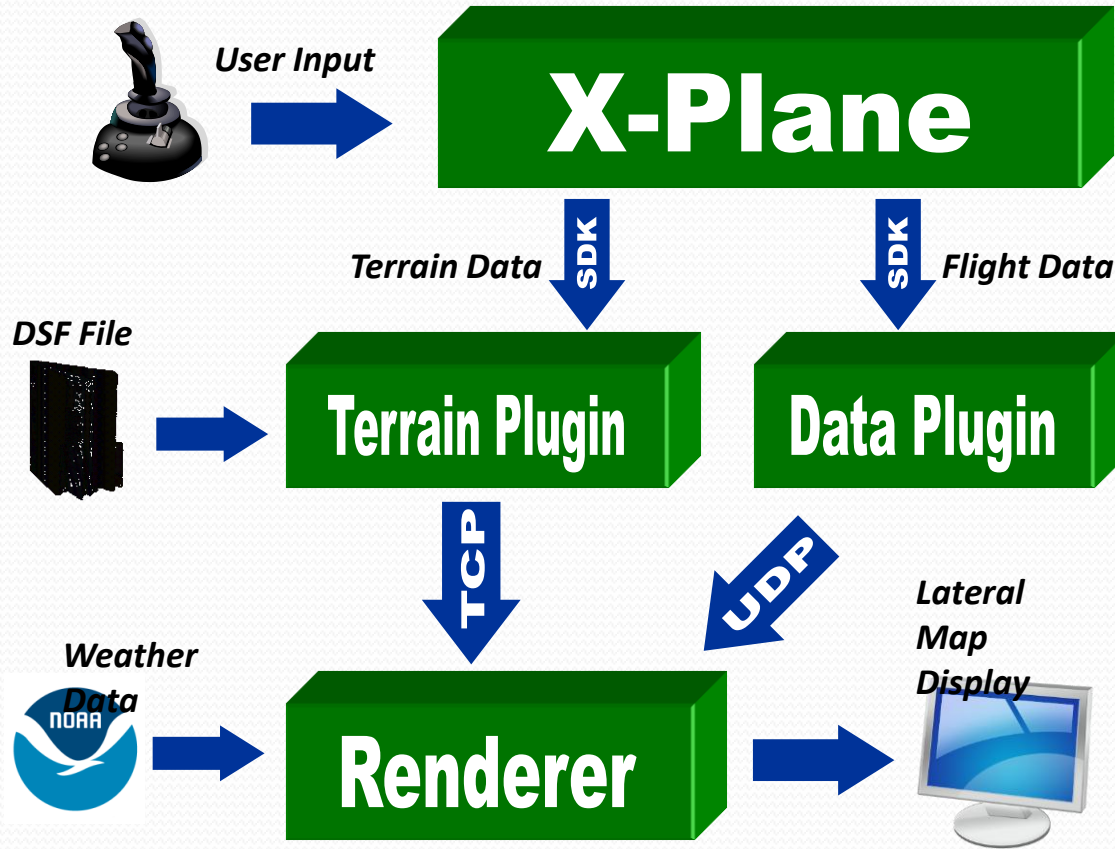
Team GE Aviation Screen Mockup





Team GE Aviation
Project Plan Presentation

Team GE Aviation Architecture Diagram

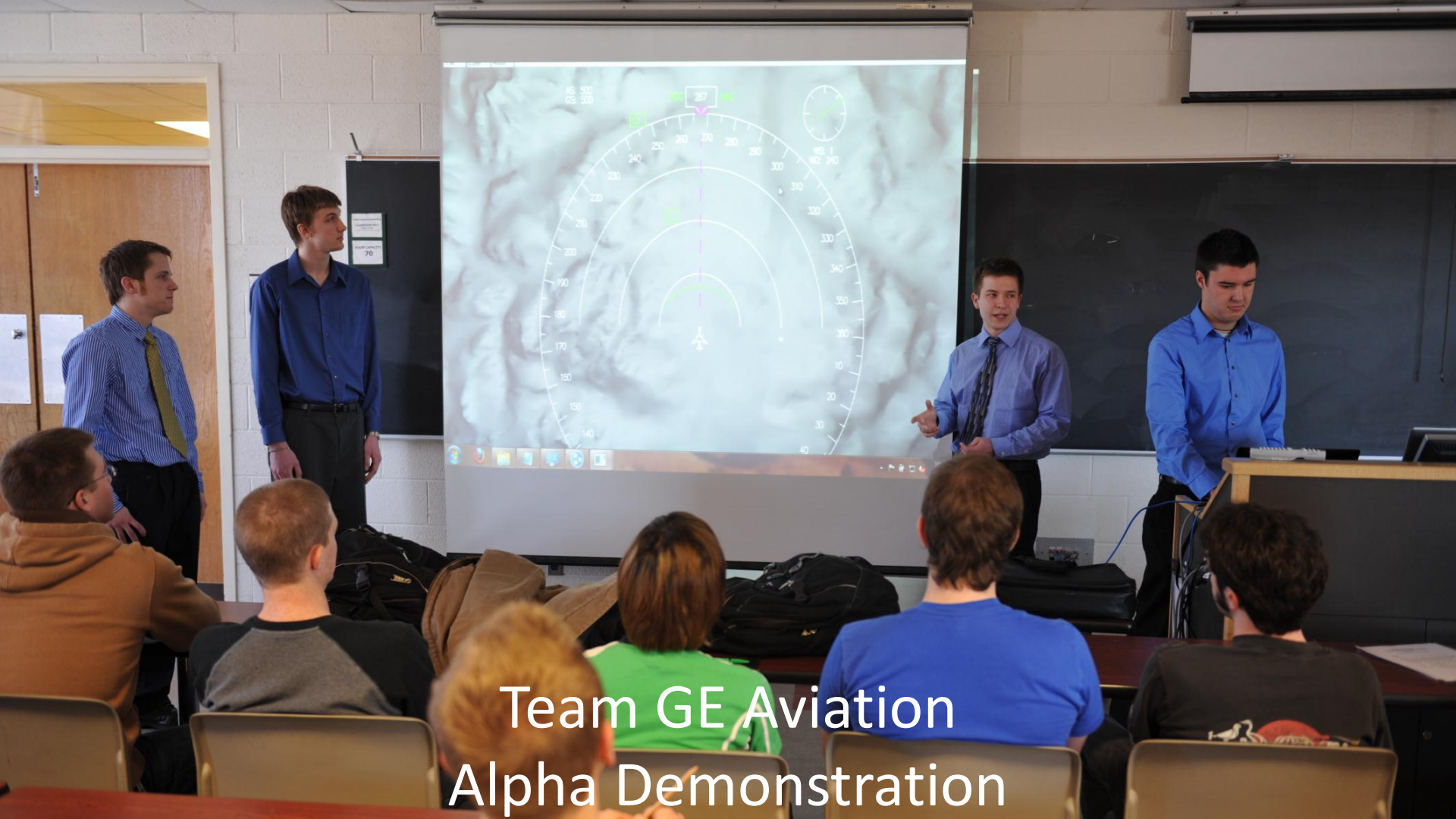




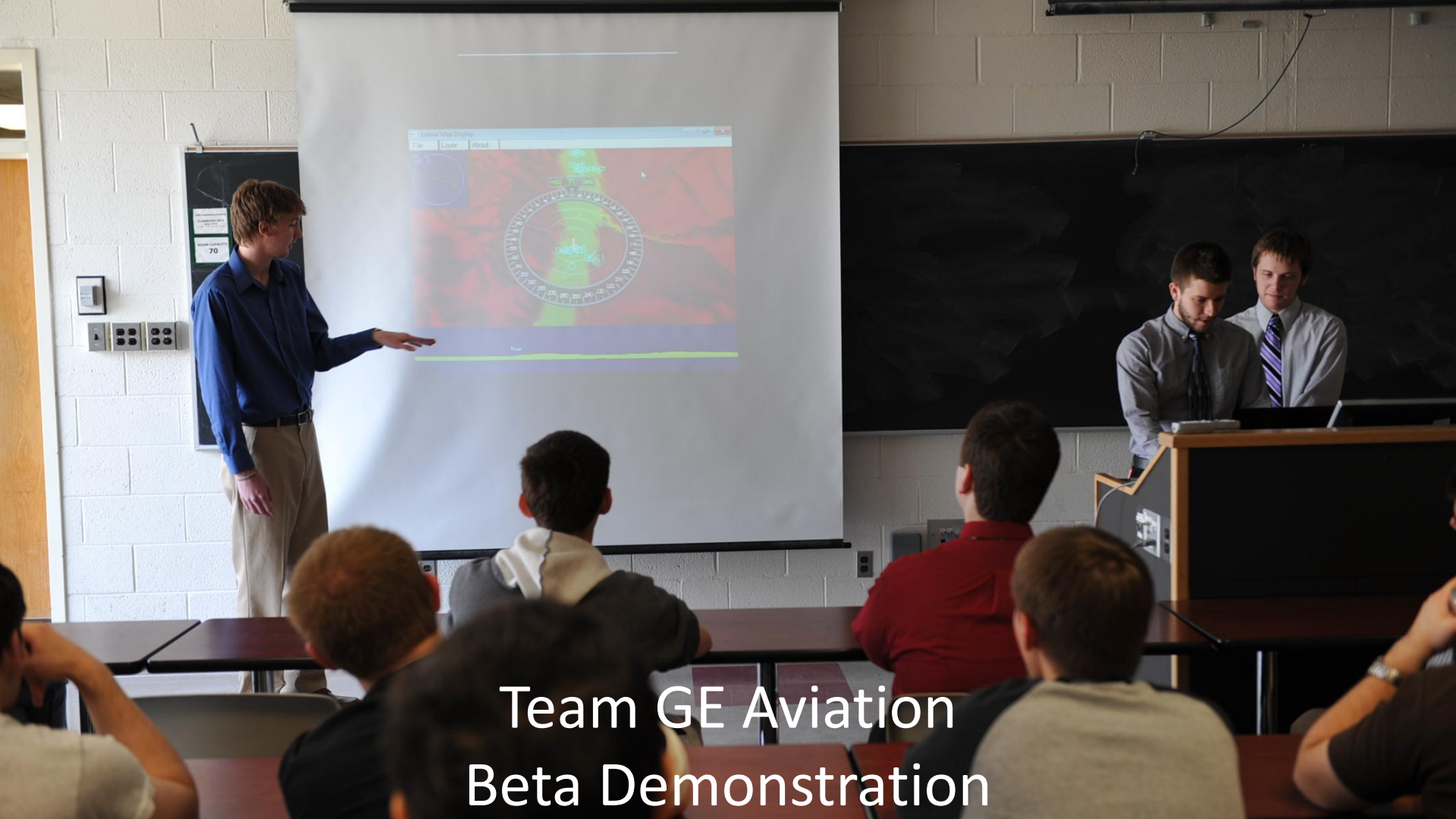
Team GE Aviation
Alpha Demonstration

Team GE Aviation Alpha Demonstration



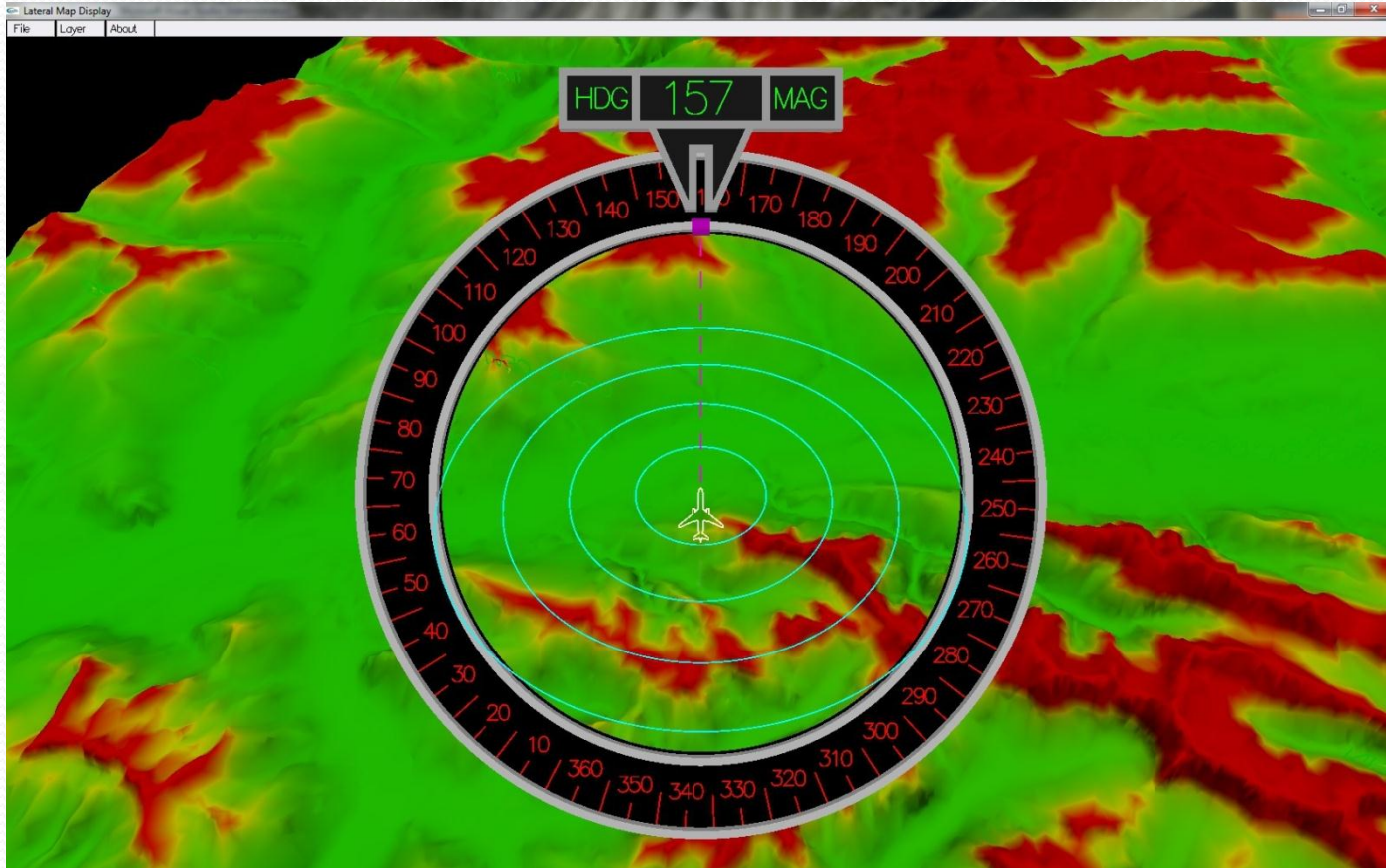


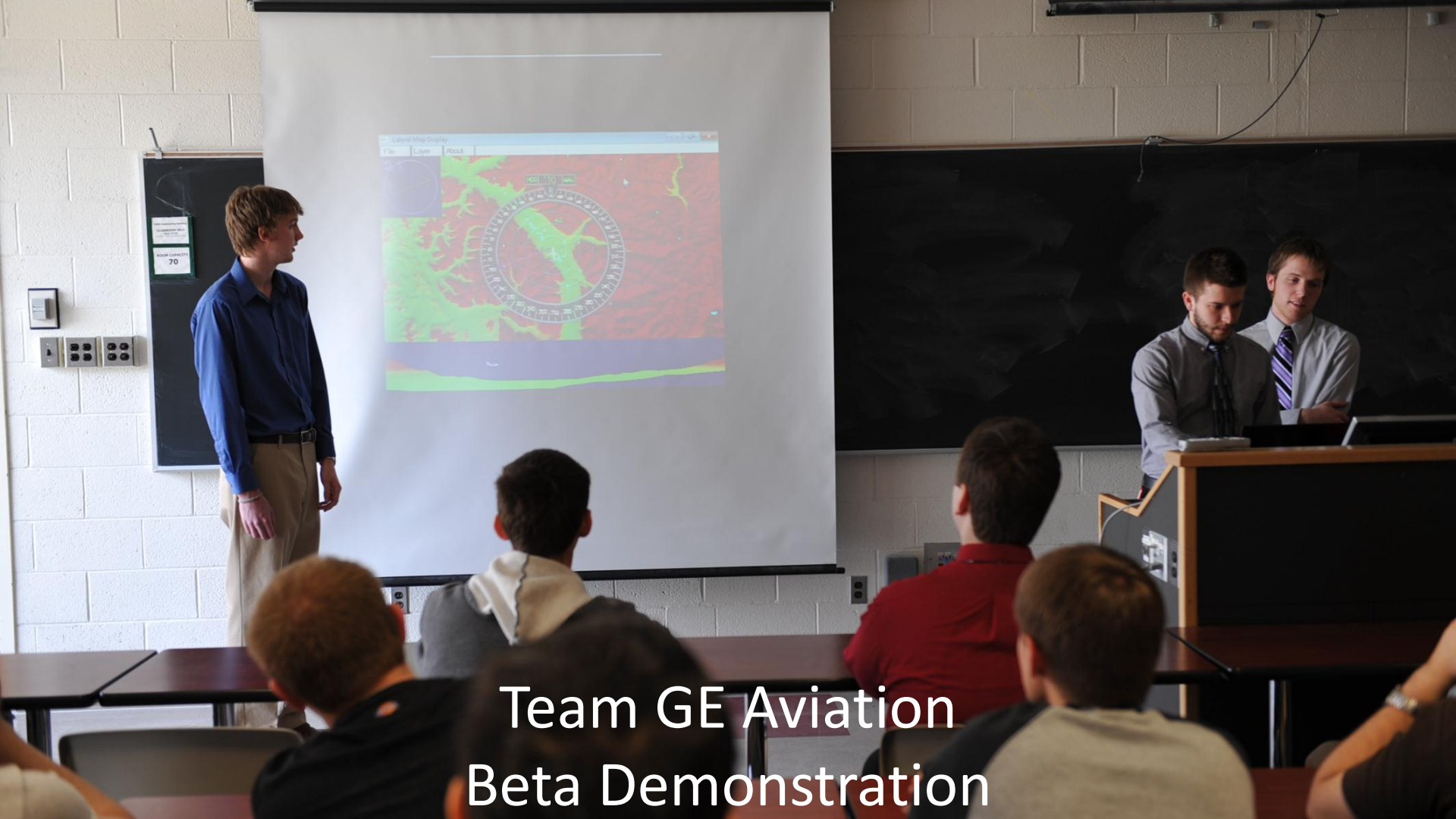
Team GE Aviation Alpha Demonstration



Team GE Aviation Beta Demonstration

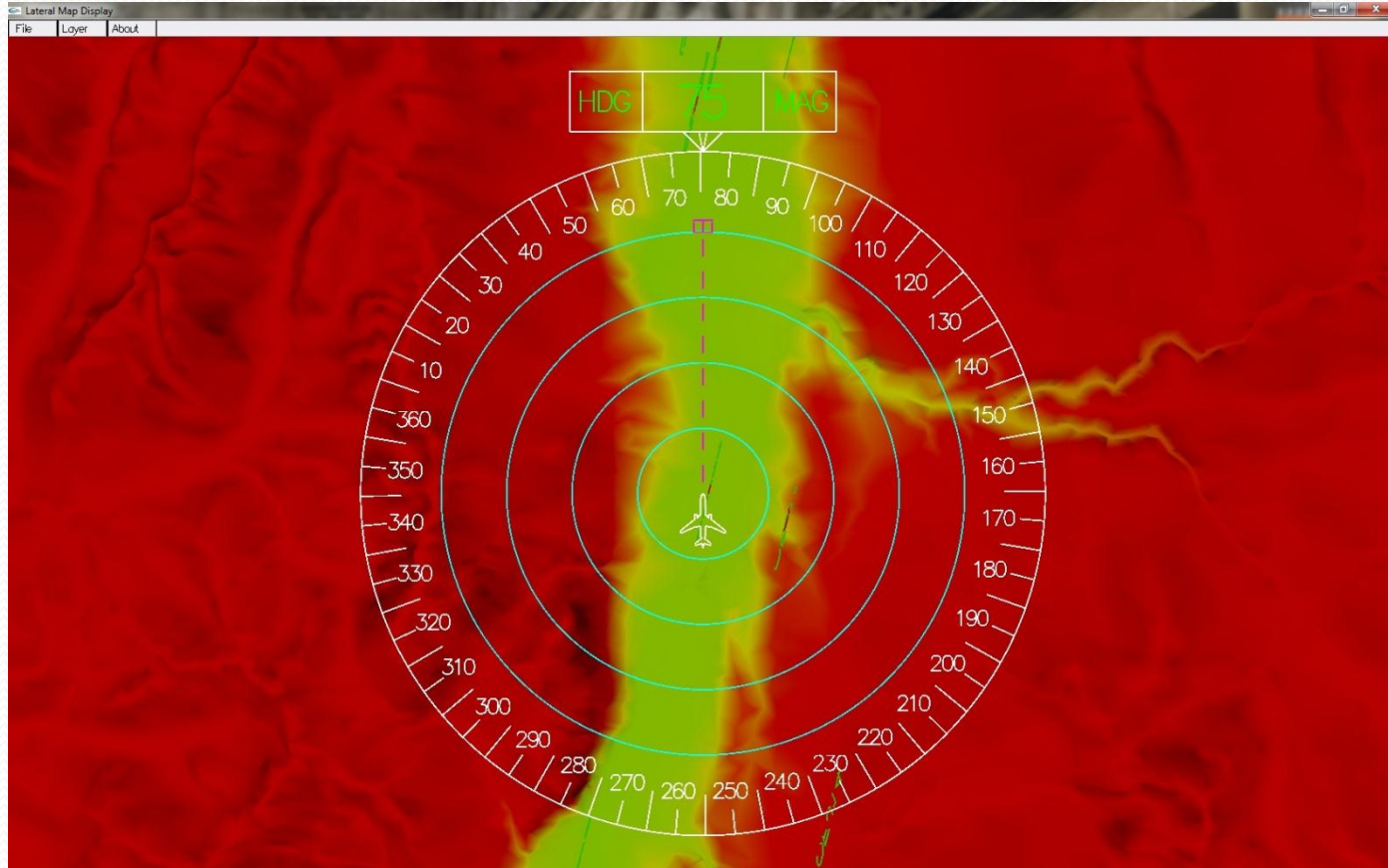
Team GE Aviation Beta Demonstration





Team GE Aviation
Beta Demonstration

Team GE Aviation Beta Demonstration



GE AVIATION FLIGHT DECK LATERAL MAP DISPLAY

Given the safety critical task of piloting an aircraft, the aviation industry is continuously seeking to improve pilot performance. One such tool aimed at improving situational awareness is the Flight Deck Lateral Map Display (LMD). This software provides multiple views of an aircraft's situation, giving a pilot valuable flight data that might otherwise not be available.

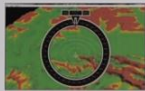
By utilizing flight simulation software to create data over a simulated aircraft network, the LMD is capable of displaying a multitude of information in various layers.

Terrain elevation and distance are rendered in multiple ways. A top-down (or plan) view's rendering is displayed around the plane nose and is shaded depending on the theoretical danger level. Terrain that is significantly above the aircraft is color-coded red while terrain significantly below the aircraft is colored green. A second form of display is a side (or profile) view where the danger levels are shaded in the same manner.

Other features include weather, waypoints, other air traffic, airports, state and country lines, wind speed, and ground speed. The weather layer uses a worldwide map to accurately display the current weather at a given location. Location data is derived using the aircraft's latitude and longitude and updates based upon position and zoom.

The Lateral Map Display is particularly useful when visibility is poor. Using this tool, the pilot has the ability to determine their heading, see their flight path, and avoid hazards such as terrain, air traffic, and weather.

The LMD is written in C and utilizes the OpenGL API.



Michigan State University
Team Members (left to right)

Jason Rogers
Ryan Michener
Jordan Cline
Benjamin Michener
Adam Dwyer
Bryan Michener
Cory Jones
David Ledge, Manager

GE Aviation
Corporate Sponsors

Adam Gertner
David Rappin, Manager
Timothy Barnes
David Rappin, Manager
Dorland Kuhn
David Rappin, Manager

Team GE Aviation
Design Day

UNITED STATES



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[For Physicians](#)

[About Medtronic](#)

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Medtronic Worldwide

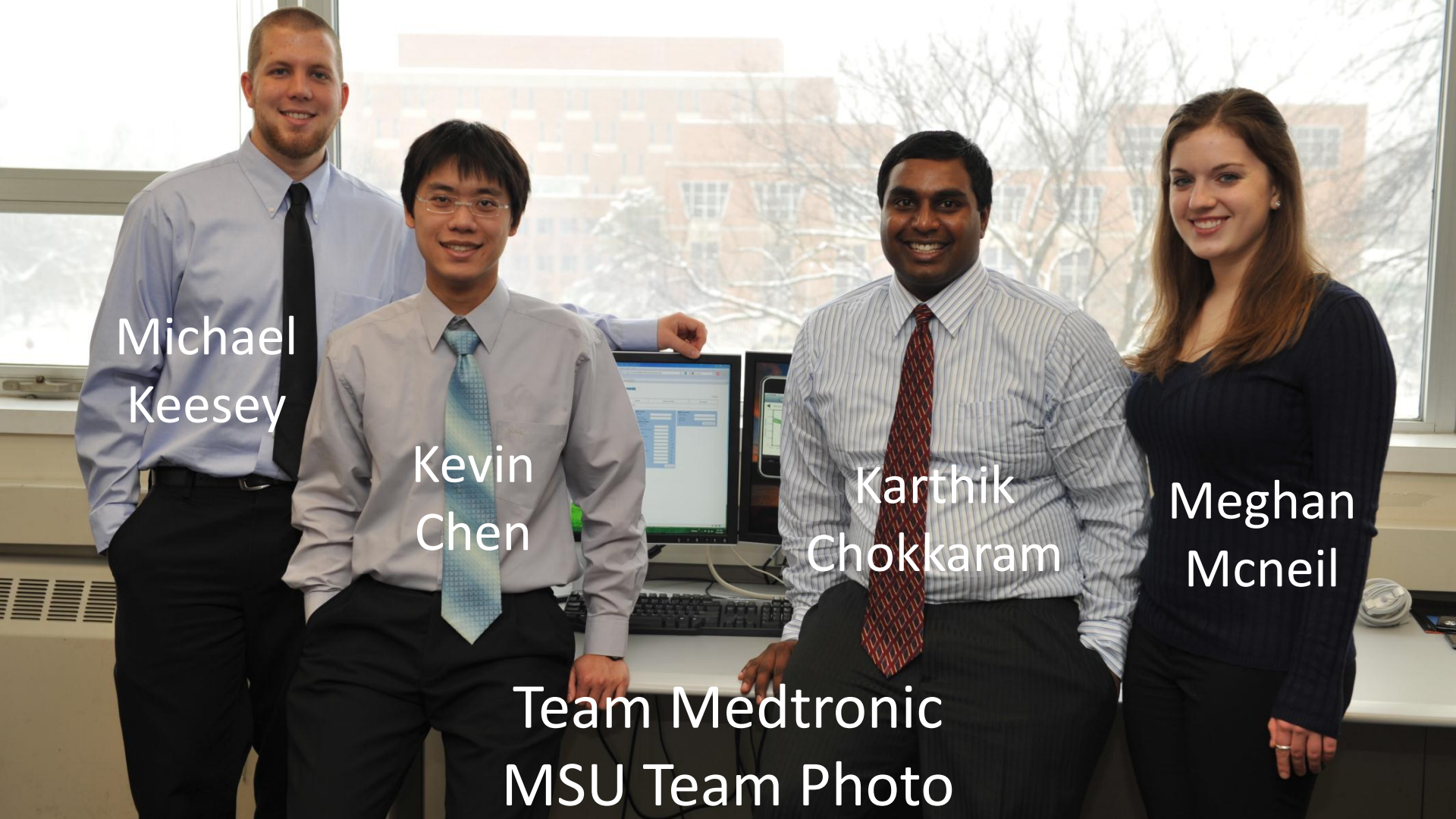
Choose a health condition or therapy to learn how we may help you feel better

Team Medtronic Project Overview

Mobile Health Management System

- Manage Chronic Disease
 - Improve Quality of Life
 - Reduce Costs (Currently 80% of All Health Care Costs)
- Web App
 - Create and Track Goals
 - Provide Feedback on Health and Wellness
- iPhone App
 - Track Calorie Intake and Expenditure
 - Suggest Exercise and/or Food Consumption
 - Accept Input from Monitoring Devices
 - Motion (e.g., Nike+)
 - Heart
 - Glucose
- Technologies
 - iPhone
 - Java based web development
 - Microsoft Healthvault
 - Google Health



A group photo of four team members standing in an office. From left to right: Michael Keesey, Kevin Chen, Karthik Chokkaram, and Meghan Mcneil. They are all smiling and dressed in business attire. Michael is wearing a light blue shirt and dark tie. Kevin is wearing a light blue shirt and a patterned tie. Karthik is wearing a striped shirt and a red patterned tie. Meghan is wearing a dark blue top. In the background, there is a large window showing a brick building and bare trees. A computer monitor and keyboard are visible on a desk in front of them.

Michael
Keesey

Kevin
Chen

Karthik
Chokkaram

Meghan
Mcneil

Team Medtronic
MSU Team Photo

Web Application Screen Mockups

S

Welcome User! [Exit Account](#) | [Log out](#)

[Home](#) [Track Progress](#) [Customize Account](#)

Today's Current Counts:

Calories: ###

Sugar (g): ###

Fat (g): ###

...

Cholesterol (g): ###

Hungry?

Snack:

Apple

Carrots

Meal:

Sesame Seed Chicken

Add Activity:

Food

What:

How Much:

(in servings)

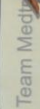
Team Medtronic
Project Plan Presentation

Team Medtronic Screen Mockups

A mockup of a mobile application screen titled "Personal Information". The screen features a header bar with "Back" and "Next" buttons. Below the header, there are five text input fields for "Date of Birth", "Race", "Weight (pounds)", "Height (inches)", and "Blood Type". At the bottom, there is a "Gender" section with two buttons: "Male" (highlighted in blue) and "Female" (greyed out).

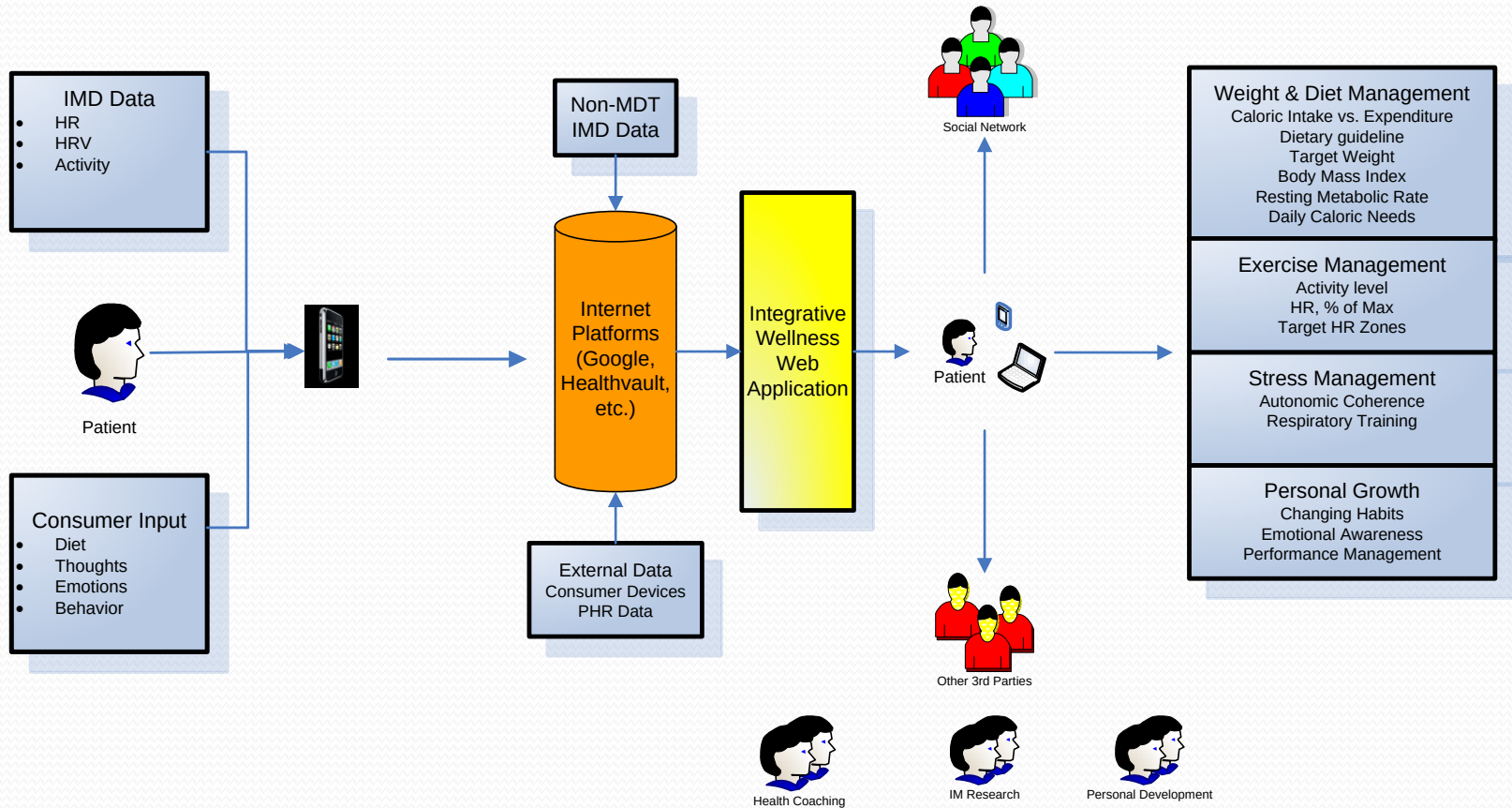
A mockup of a mobile application screen titled "Diet Statistics". The screen features a header bar with "Day", "Week", and "Month" buttons, flanked by double-headed arrows. Below the header, there is a large text area labeled "Show Diet Statistics Here". At the bottom, there is a single button labeled "Add Food".

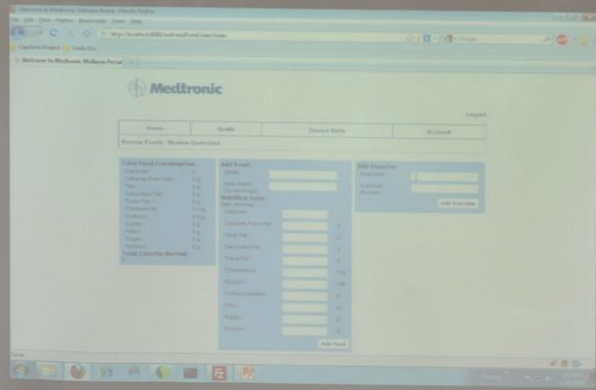
S



Team Medtronic Project Plan Presentation

Team Medtronic Architecture Diagram





Team Medtronic
Alpha Demonstration

Team Medtronic Alpha Demonstration


Logout

Home	Goals	Track	Account
------	-------	-------	---------

Total Food Consumption
Calories: 605.0
Calories from Fat: 19.0 g
Fat: 5.5 g
Saturated Fat: 2.0 g
Trans Fat: 0.0 g
Cholesterol: 10.0 mg
Sodium: 1150.0 mg
Carbs: 128.5 g
Fiber: 5.0 g
Sugar: 44.5 g
Protien: 12.0 g

By Food

Apple Jacks

Calories: 70.0
Calories from Fat: 0.0 g
Fat: 0.0 g
Saturated Fat: 0.0 g
Trans Fat: 0.0 g
Cholesterol: 0.0 mg
Sodium: 85.0 mg
Carbs: 16.0 g
Fiber: 2.0 g
Sugar: 8.0 g
Protien: 1.0 g

Syrup

Calories: 105.0
Calories from Fat: 0.0 g
Fat: 0.0 g
Saturated Fat: 0.0 g
Trans Fat: 0.0 g
Cholesterol: 0.0 mg
Sodium: 70.0 mg
Carbs: 26.5 g
Fiber: 0.0 g
Sugar: 15.5 g
Protien: 0.0 g

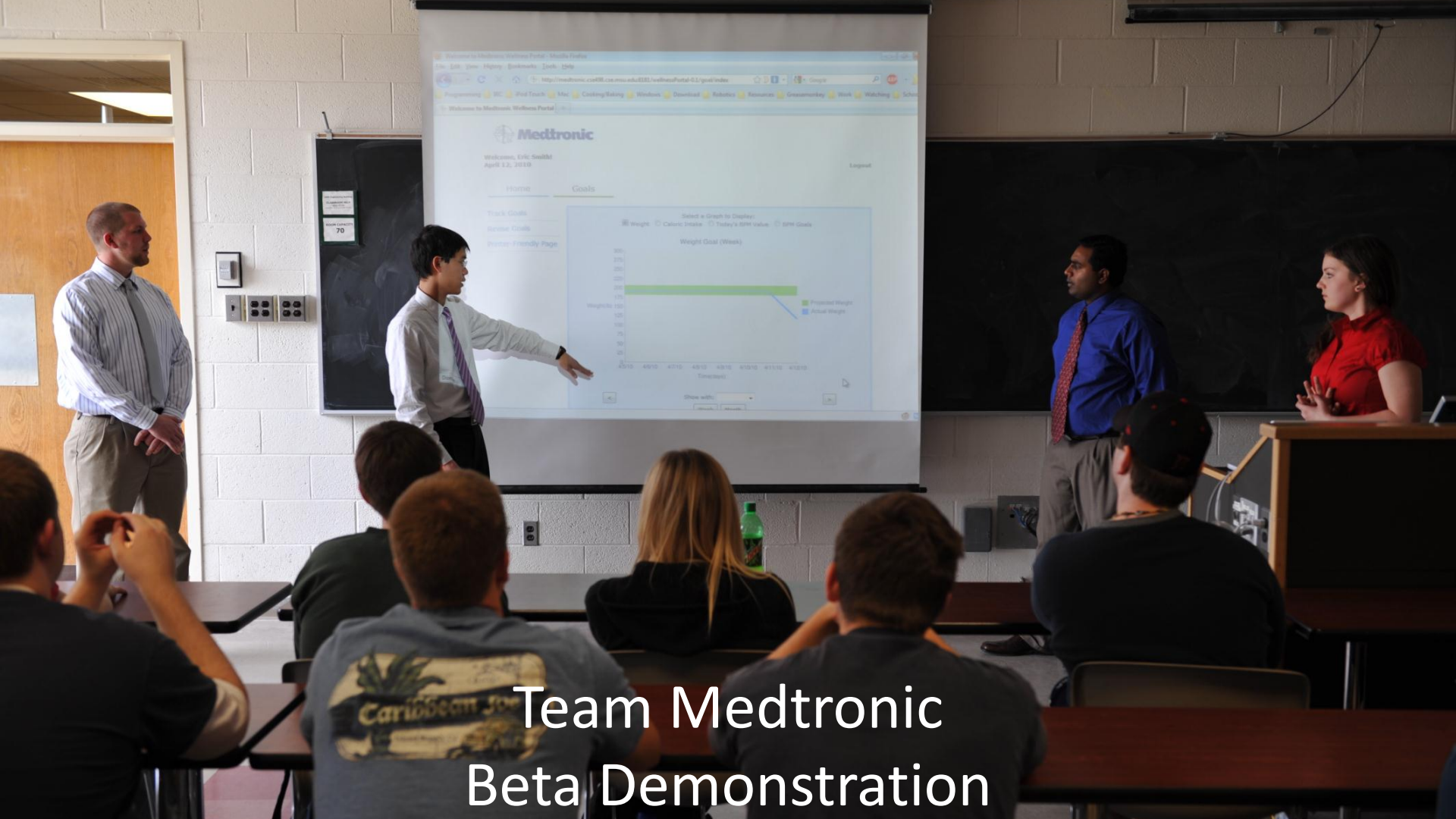
Special K Bar, Strawberry

Calories: 90.0

Add Exercise
Exercise:
Calories Burned:
Add Exercise
Add Food:
What:
How Much:
(In servings)
Nutrition Data: (per serving)
Calories:
Calories From Fat: g
Total Fat: g
Saturated Fat: g
Trans Fat: g
Cholesterol: mg
Sodium: mg
Carbohydrates: g
Fiber: g
Sugar: g
Protein: g
Add Food




Team Medtronic
Alpha Demonstration



Team Medtronic Beta Demonstration

Team Medtronic Beta Demonstration

 **Medtronic**

Welcome, Eric Smith!
April 11, 2010

Logout

HomeGoals

[Review Today's Foods](#)

[Review Today's Exercises](#)

[Edit Account](#)

Goal Summary
Weight
Weight Target: 190
Current Weight: **220.0**

You have **1261.0** before you reach your suggested caloric intake.

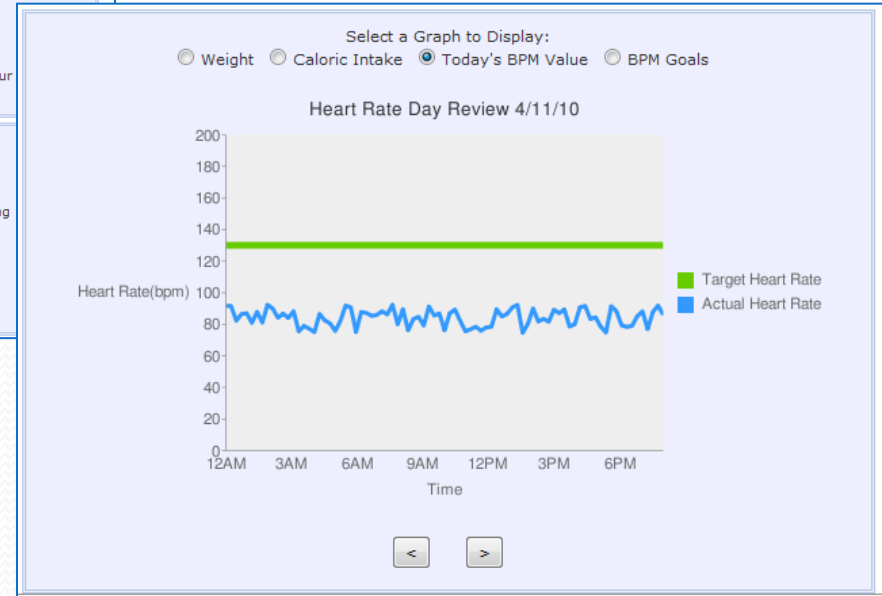
Heart Rate
Target Heart Rate: 130
Number of Minutes Above Target: 0

You have **30** minutes to go to reach your

Today's Total Food Consumption

Calories:	1260.0	Calories from Fat:	490.0
Total Fat:	56.0 g	Saturated Fat:	35.0 g
Trans Fat:	0.0 g	Cholesterol:	140.0 mg
Sodium:	2520.0 mg	Carbs:	126.0 g
Fiber:	42.0 g	Sugar:	56.0 g
Protein:	98.0 g		

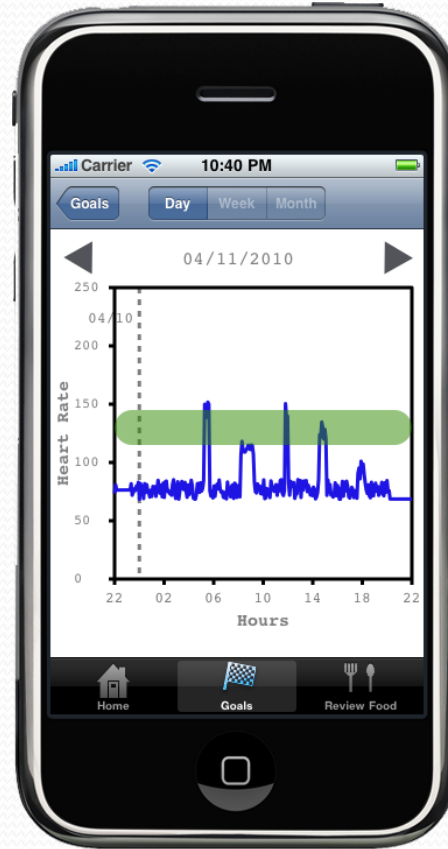
Total Calories Burned Today
0





Team Medtronic Beta Demonstration

Team Medtronic Beta Demonstration





MEDTRONIC MOBILE HEALTH MANAGEMENT SYSTEM

In an effort to help patients manage their health we have developed the Mobile Health Management System. The goal of this product is to show the correlation between food and exercise choices and the patient's health. Patients will be able to track a wide range of goals that consist of weight, heart rate, blood sugar, and other various related health risks.

The product consists of both a web and iPhone application. Patients will be able to input their daily activities and view data from their implanted Medtronic devices. The correlation of this data confirms healthy choices and helps patients actively participate in their rehabilitation.

One example could include an overweight patient struggling with a chronic heart disease. The patient could use the application to track weight, heart rate, and radiation levels. The activity data that they entered can be viewed along with data from their implanted Medtronic devices. Over time, the patient can see how their health has been affected by their lifestyle choices.

Medtronic's mission is to contribute to human welfare by the application of biomedical engineering to alleviate pain, restore health, and extend life. For over 60 years they have been transforming the way the world treats chronic disease so patients can live a better life.

The web application is developed in Javascript and Google and Google. The iPhone application is developed in Objective-C. The database used is MySQL.

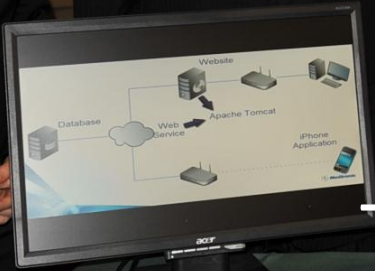


Michigan State University Team Members (left to right)

- Michael Eickert
Portland, Oregon
- Karen Chen
Berkeley, Texas
- Kathie Chouman
New York, Michigan
- Margan Michel
Farmington Hills, Michigan

Medtronic Corporate Sponsors

- Paul Erickson
Minneapolis, Minnesota
- Michael Green
Minneapolis, Minnesota
- Vandy Johnson
Minneapolis, Minnesota
- Scott Mack
Minneapolis, Minnesota
- Kurt Perry
Minneapolis, Minnesota
- Mike Stumacher
Minneapolis, Minnesota



Team Medtronic Design Day





Meijer: Higher Standards, Lower Prices on Gro...



Page

Safety

Tools



Higher Standards
meijer
Lower Prices

WEEKLY AD
STORE INFO
MORE... ▼

WELCOME. SIGN IN OR CREATE AN ACCOUNT FOR EXCLUSIVE SAVINGS.



[View Cart/Checkout](#)

0 items

\$0.00



Search

All Products

GO

Grocery Drugstore Kitchen & Dining Furniture Home & Crafts Garden & Outdoor Sports & Recreation Pet Online Sale
Music & Movies Electronics Photo Toys Video Games Baby & Kids Jewelry & Accessories Gift Shop & Gift Cards **Clearance**



Spend Your Meijer Gift Card, Get **FREE Standard Shipping!**



dailysteal



dailysteal

16 Hrs 41 Mins 28 Secs



Acoustic Research

After Christmas
Online Clearance
Save 20-60%!

clearance

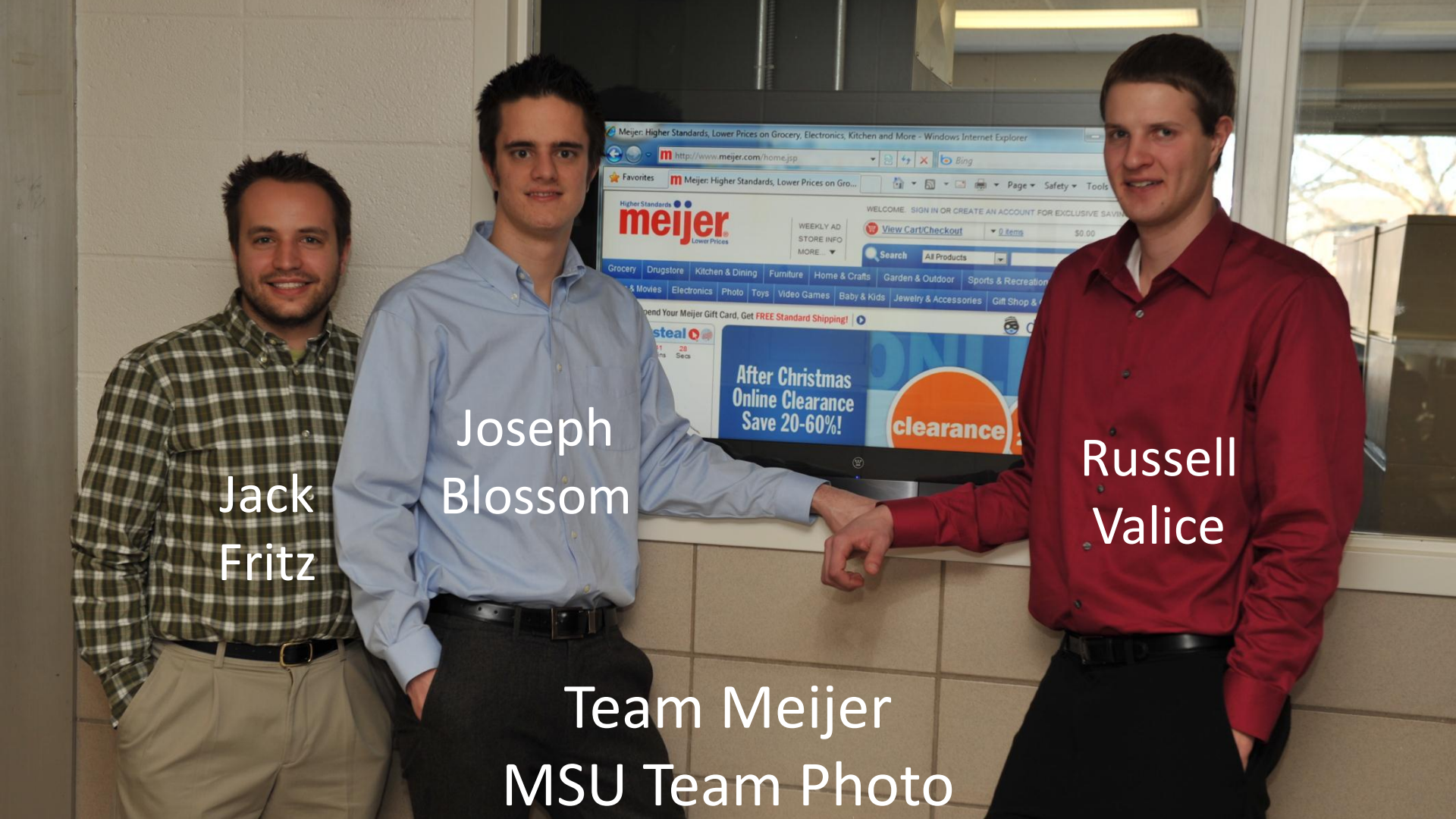
**save
20-60%**

Team Meijer Project Overview

CIO Dashboard

- Dashboard of ITS (Information Technology Services) KPI's
 - Target for CIO and ITS Leadership
 - Build on Capstone [ITS Scorecard Dashboard](#), Fall 2009
 - Features
 - Spotlighting of Actual vs. Goal
 - Drill-down
 - Trending (Up/Down and Rolling)
 - Alerts/Notification
 - Consistency of Delivery and Format
- Extensible Architecture
 - Framework
 - Templates
 - Standards
- Technologies
 - Microsoft SharePoint 2007
 - Visual Studio 2005
 - Microsoft SQL Server 2008



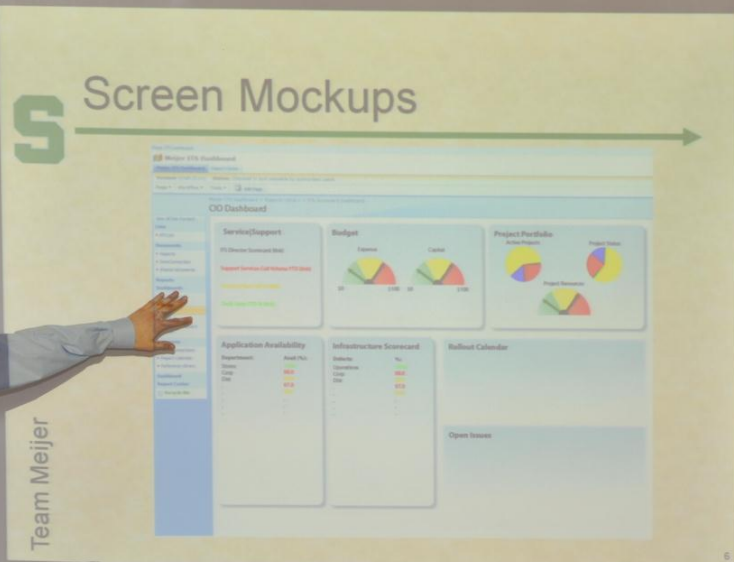
A photograph of three young men standing in front of a computer monitor. The man on the left is wearing a green and white plaid shirt and khaki pants. The man in the middle is wearing a light blue button-down shirt and dark pants. The man on the right is wearing a maroon button-down shirt and dark pants. The monitor behind them displays the Meijer website, which features a navigation bar with categories like Grocery, Drugstore, Kitchen & Dining, Furniture, Home & Crafts, Garden & Outdoor, Sports & Recreation, Electronics, Photo, Toys, Video Games, Baby & Kids, Jewelry & Accessories, and Gift Shop. A large banner on the screen reads 'After Christmas Online Clearance Save 20-60%!' with a 'clearance' logo. The text 'Team Meijer MSU Team Photo' is overlaid at the bottom of the image.

Jack
Fritz

Joseph
Blossom

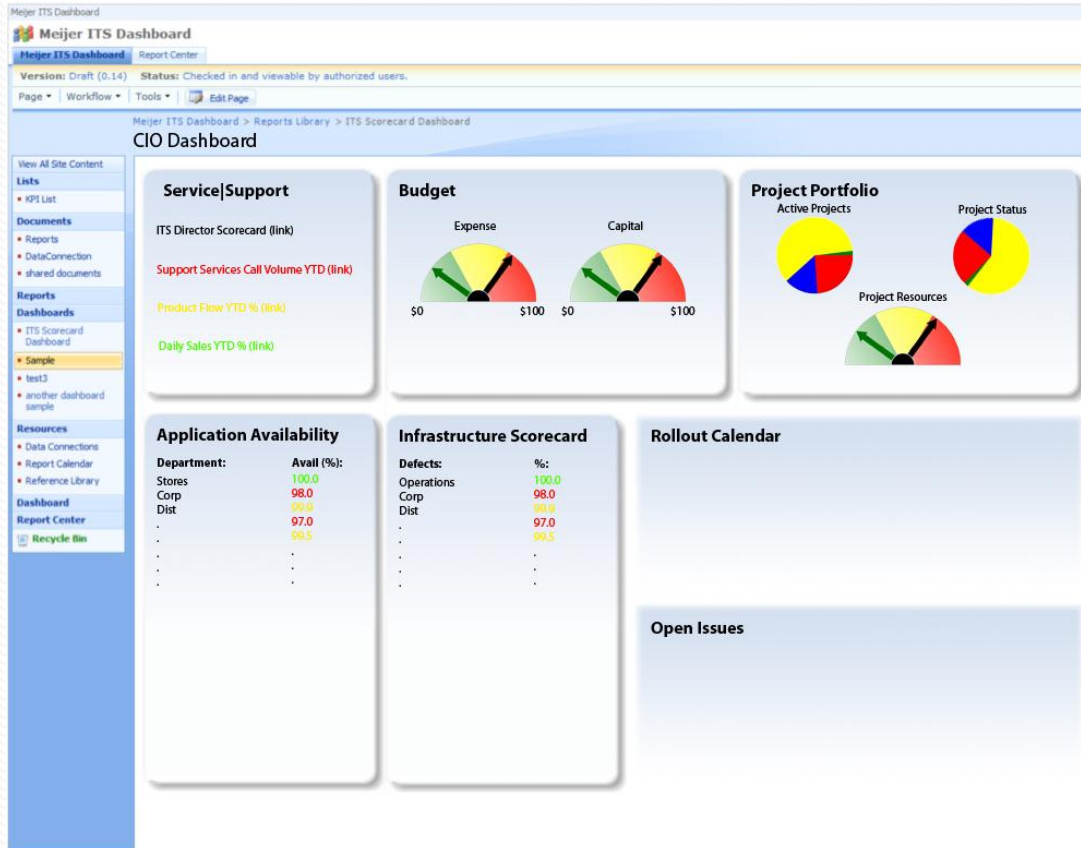
Russell
Valice

Team Meijer
MSU Team Photo

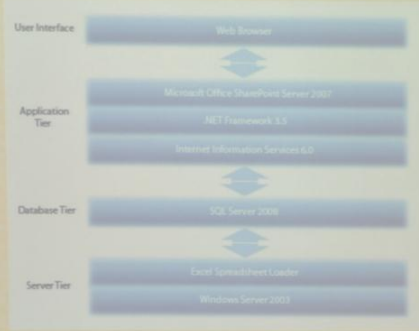


Team Meijer
Project Plan Presentation

Team Meijer Screen Mockup



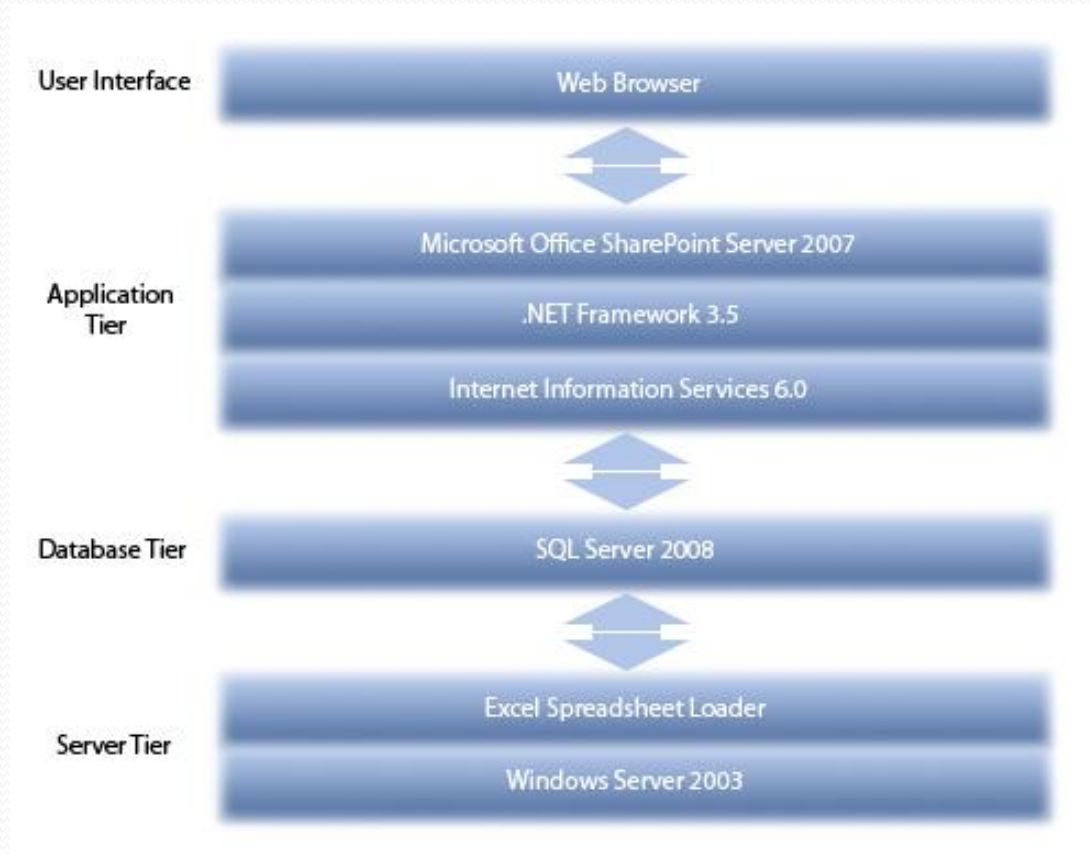
S Architecture Illustrated

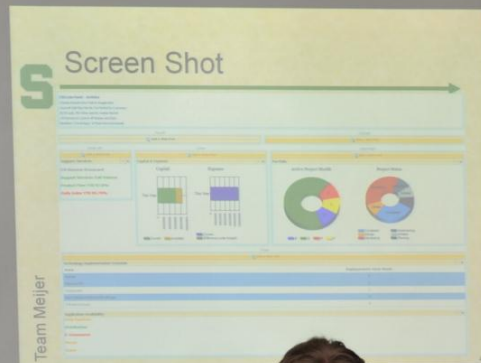


Team Meijer

Team Meijer
Project Plan Presentation

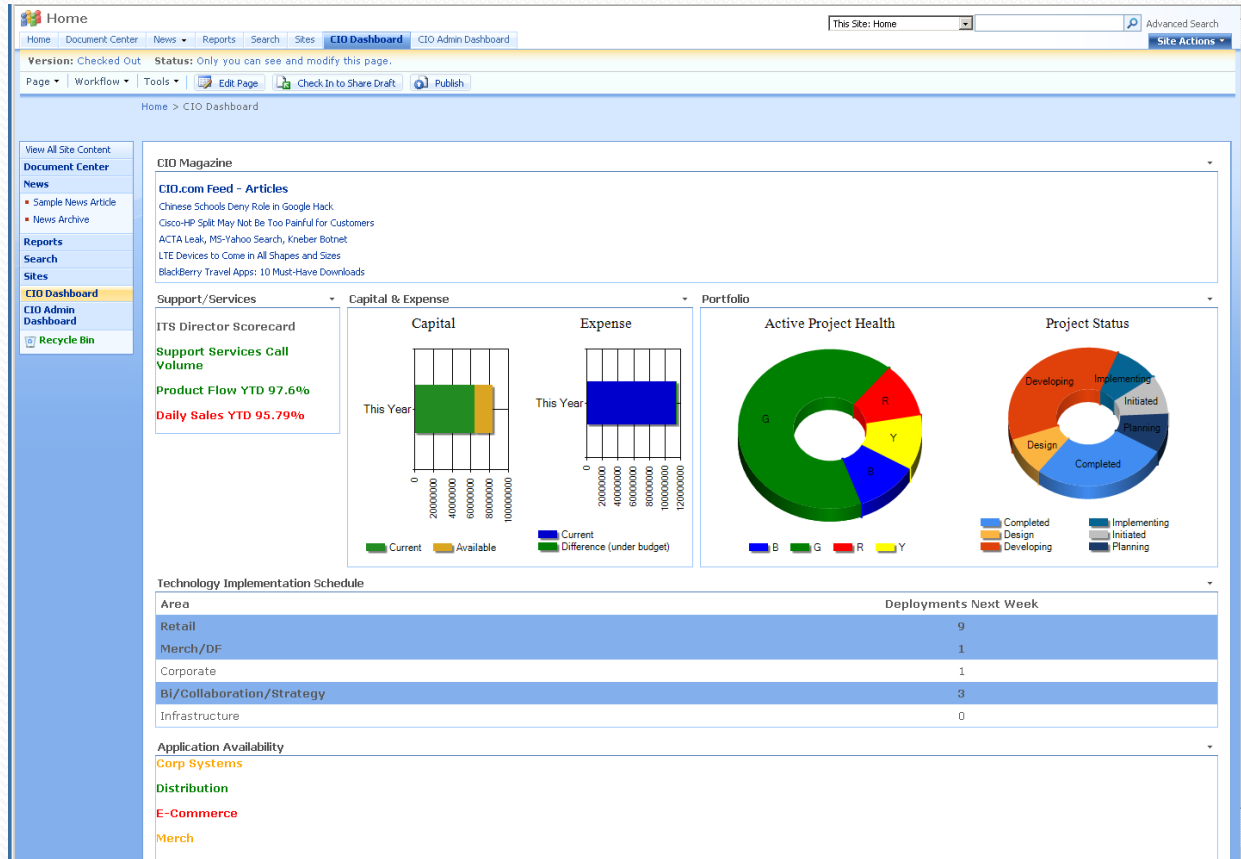
Team Meijer Architecture Diagram





Team Meijer
Alpha Demonstration

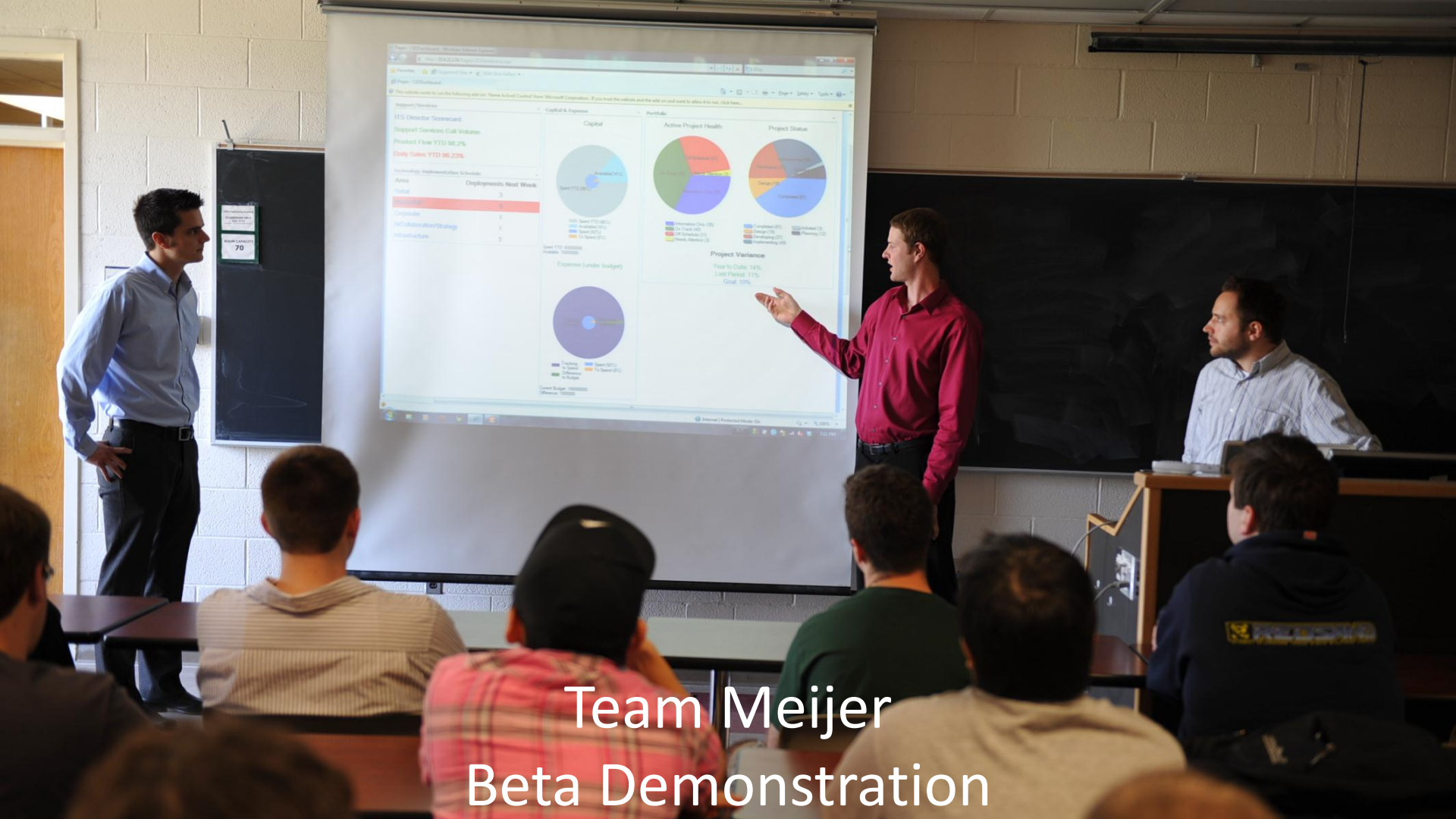
Team Meijer Alpha Demonstration





Team Meijer
Alpha Demonstration

Team Meijer Beta Demonstration



Team Meijer Beta Demonstration

Support/Services

ITS Director Scorecard

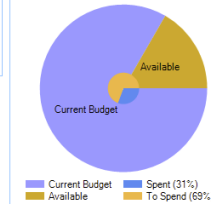
Support Services Call Volume

Product Flow YTD 98.2%

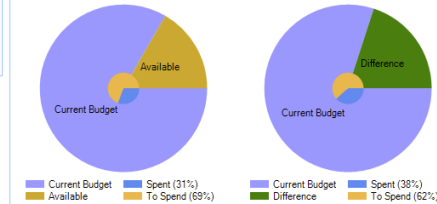
Daily Sales YTD 96.23%

Capital & Expense

Capital



Expense (under budget)

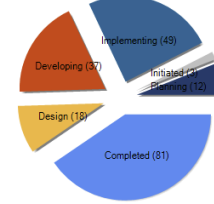


Portfolio

Active Project Health



Project Status



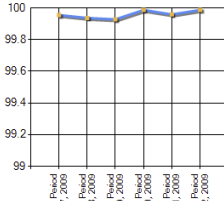
Project Variance

Year to Date: 14%
Last Period: 9%
Goal: 10%

Application Availability

DEPARTMENTS:	Last Period	YTD
Corp Systems	100.000	99.934
Distribution	100.000	100.000
E-Commerce	99.785	99.797
Merch	100.000	99.903
STORE	99.909	99.916

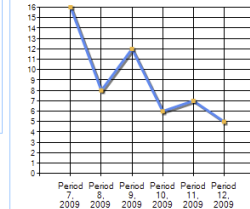
Departments



Infrastructure and Operations

INFRASTRUCTURES:	Last Period	YTD
AIX Servers	0	8
AT&T Service Provider	3	49
Database	0	5
Mainframe/Middleware	0	0
Network	0	13
Other	0	1
Security	0	2
Storage	1	4
Voice	0	5
Windows Servers	1	12

Infrastructures



Technology Implementation Schedule

Area	Deployments Next Week
Retail	3
Security Ops	3
Corporate	1
BI/Collaboration/Strategy	1
Infrastructure	3



Team Meijer
Beta Demonstration

MEIJER CHIEF INFORMATION OFFICER DASHBOARD

For retail giants like Meijer, information technologies provide strategic competitive advantages for everything from point-of-sale systems to inventory control. The Chief Information Officer is responsible for leading and managing information technology for the entire enterprise.

What we have come up with is a dashboard, that is built upon Microsoft SharePoint, which has several "widgets" that all help to portray different information, whether it is financial information or period support call volume or any other performance metric related to the IT department.

Each one of these "widgets" portrays information in a way that is best fitting for that information. This ranges from pie charts, to graphs, to color-coded text.

While all of these "widgets" provide a brief glimpse into the performance metrics, some also allow for a "drill-down" into the information to see specific parts of that performance metric. "Drill-down" simply means you can click to see a more detailed view of that performance metric.

The hope of our project is that we can provide a highly customizable and interactive dashboard to Meijer's CEO and IT's Managers. This dashboard allows the user to quickly glance at key department metrics, highlighting areas that are under performing, and allowing for quick "drill-down" to more detailed information. By providing this dashboard, the user can potentially save valuable minutes by only spending time on areas that require their attention.



meijer



Northwest State University
Northwest State University

Jack Epp
Grand Rapids, Michigan
Joseph Shuman
Grand Rapids, Michigan
David Miller
Grand Rapids, Michigan

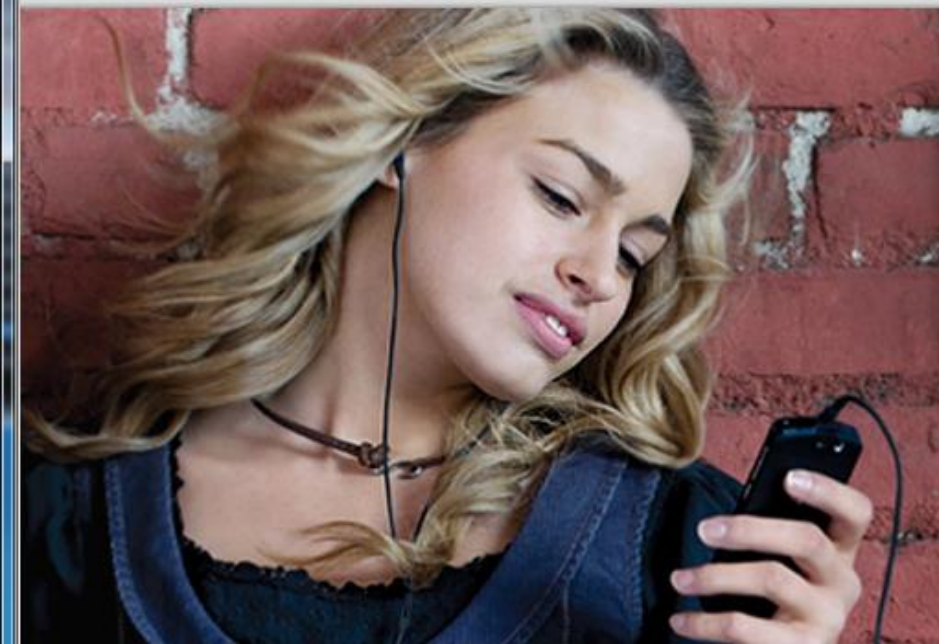
Meijer
Corporate Sponsor

Barry Brown
Grand Rapids, Michigan
James Pelt
Grand Rapids, Michigan
David Miller
Grand Rapids, Michigan

Team Meijer
Design Day



WELCOME TO **MOTOROLA**



FOR **CONSUMERS**



FOR **BUSINESS**

Team Motorola Project Overview

Mobile User Generated Video Service

- User Videos from Mobile Phone to Home TV
 - Users Generate Videos
 - Capture with Mobile Phone
 - Upload from Mobile Phone to Service
 - Family and Friends View Videos
 - On Home TV
 - Using Cable TV Set Top Box (STB)
 - Support Apple iPhone and Motorola Droid
- Software Components and Features
 - RESTful Video Services
 - Video On Demand (VOD)
 - Social Networking
 - Cable TV Set Top Box (STB) Interface
- Technologies
 - Apple iPhone and Motorola Droid Development
 - RESTful Web Services
 - Video on Demand and Other Cable Services
 - Advanced Java and JEE, AJAX



MOTOROLA

A group photo of four young men in an office setting. Three are seated in the foreground, and one is standing behind them. They are all wearing business casual attire, including shirts and ties. Two computer monitors are visible in the background, displaying web pages. The man on the left is wearing a green shirt and a patterned tie. The man in the center is wearing a light blue shirt and a patterned tie. The man on the right is wearing a green shirt and a patterned tie. The man standing in the background is wearing a white sweater over a red collared shirt.

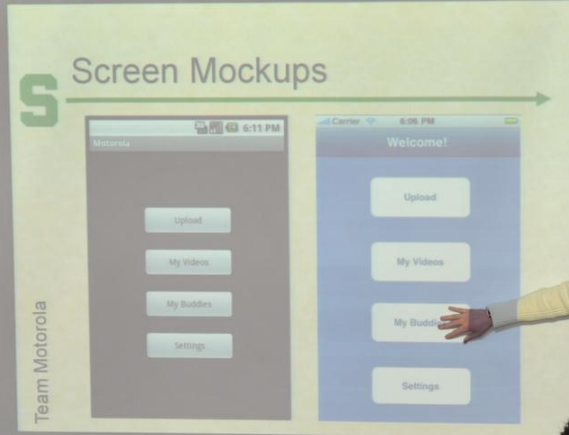
Brandon
Malicoat

Jonathan
Szynkowski

Kurt
Seippel

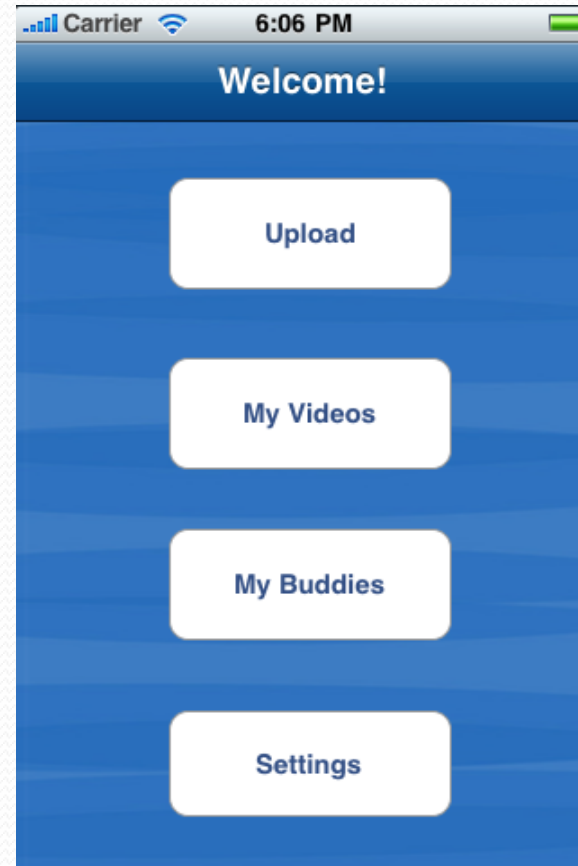
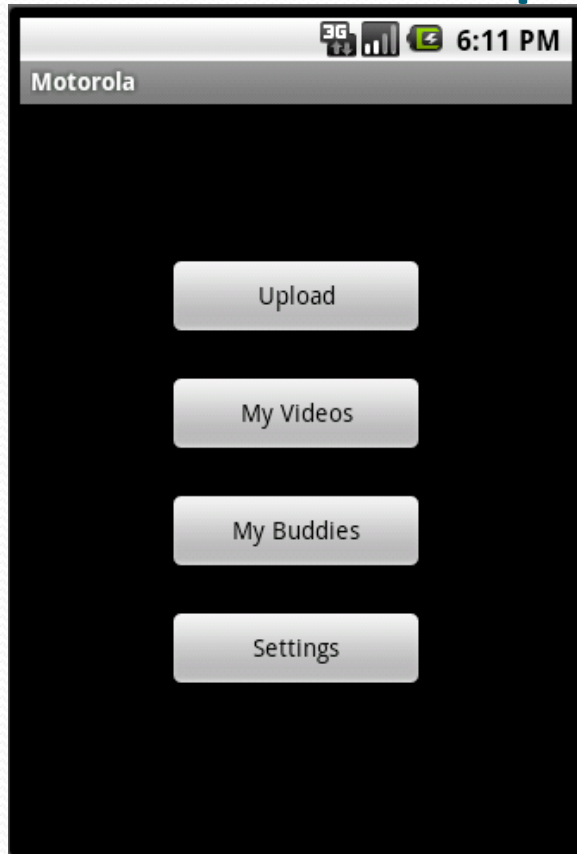
Robert
Gaul

Team Motorola
MSU Team Photo

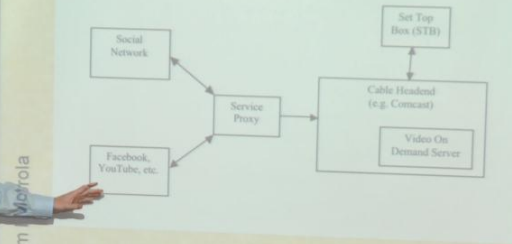


Team Motorola Project Plan Presentation

Team Motorola Screen Mockups



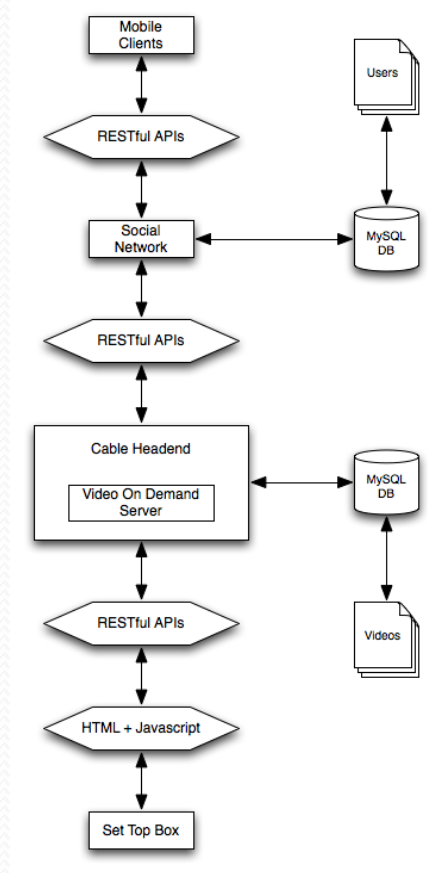
S Architecture Illustrated



Team Motorola

Team Motorola
Project Plan Presentation

Team Motorola Architecture Diagram



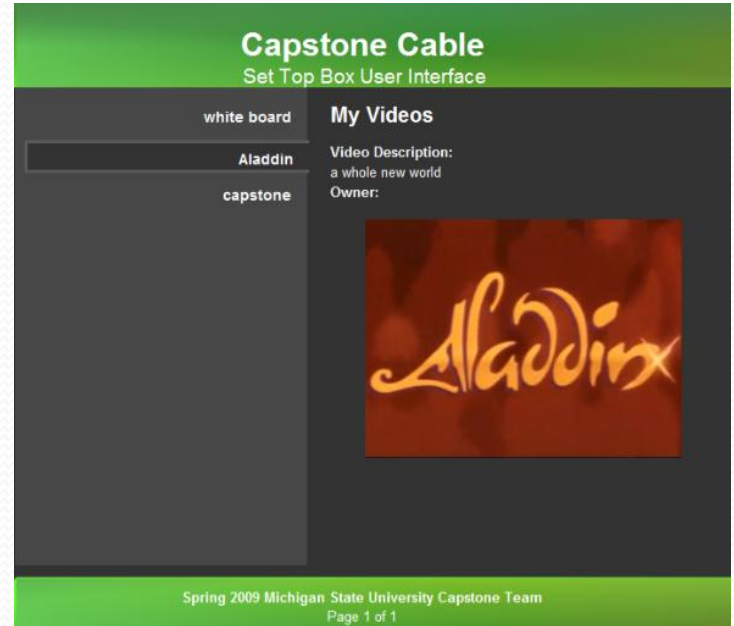


Team Motorola Alpha Demonstration

Team Motorola Alpha Demonstration



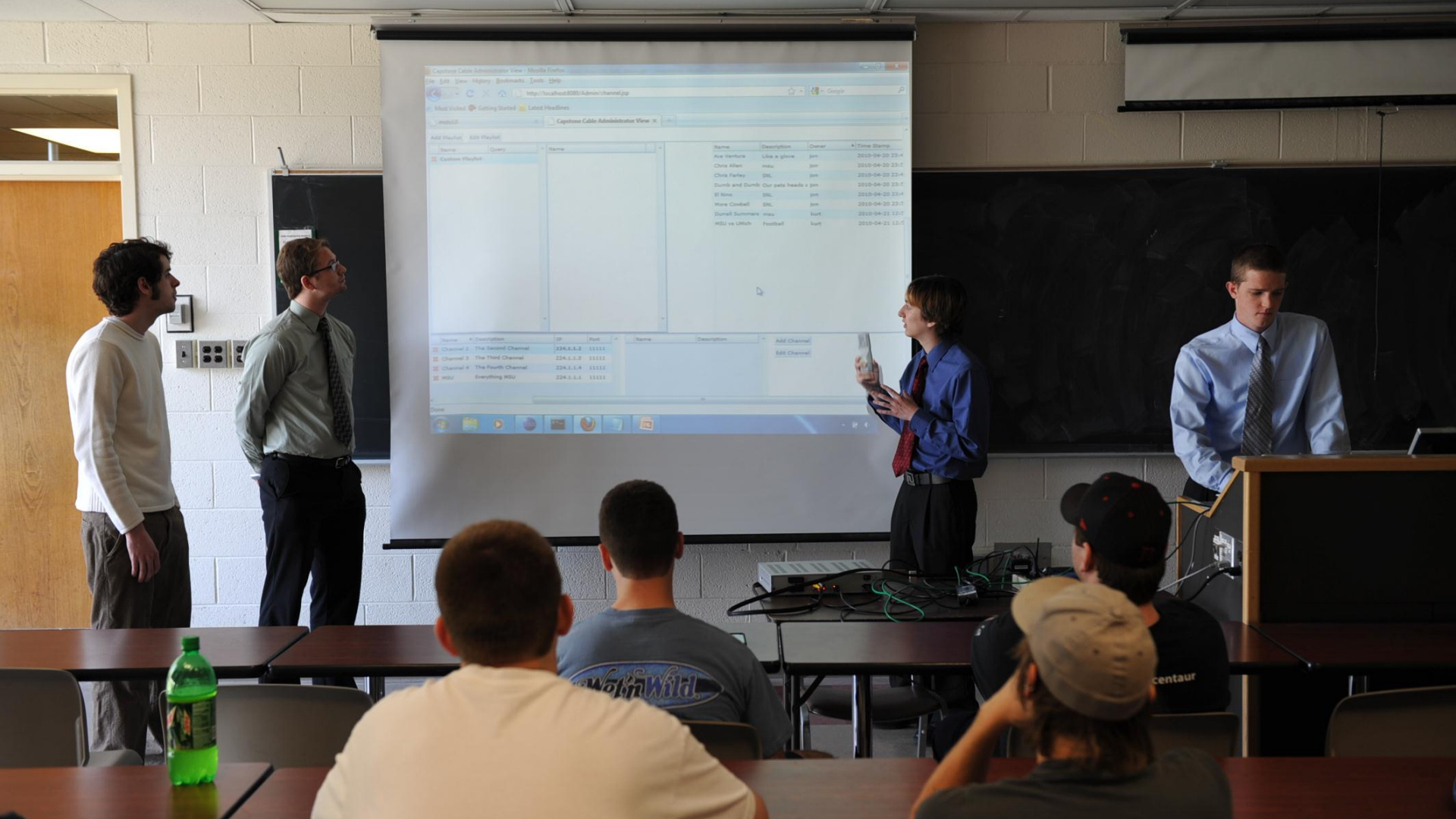
The screenshot shows the Capstone Cable website interface. At the top left is the Capstone Cable logo. To its right is a grey box with the text "Welcome to Capstone Cable!" and "Manage your Capstone Cable account. Sign In | Create Account". Below this is a navigation bar with links: Learn, Shop, TV Programming, Customers, User Generated Content (highlighted), and About. The main content area has a green background. On the left, there are sections for "Videos" (listing Aladdin, kurt thinking, and RED RING) and "Buddies" (listing bmalicoat and kurt). In the center, a video player shows a man thinking, with the title "kurt thinking" and a play button. Below the video is a "hand" label and an "Update Video Info" button. On the right, there is an "Associated Buddies" list with "kurt" and "bmalicoat", and buttons for "Update" and "Disassociate". At the bottom of the page, there is a footer with the text "2009 Capstone Cable | Privacy Policy | Site Map".



The screenshot shows the Capstone Cable Set Top Box User Interface. The top bar is green with the text "Capstone Cable" and "Set Top Box User Interface". Below this is a dark grey area with a "white board" section containing "Aladdin" and "capstone". To the right, there is a "My Videos" section with a "Video Description: a whole new world" and "Owner:". Below the description is a video player showing the title "Aladdin" in a stylized font. At the bottom of the page, there is a green footer with the text "Spring 2009 Michigan State University Capstone Team" and "Page 1 of 1".



Team Motorola Alpha Demonstration



Capstone Cable Administrator View - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8080/Admin/channel.jsp

Most Visited Getting Started Latest Headlines

metastd Capstone Cable Administration View

Add Channel Edit Playlist

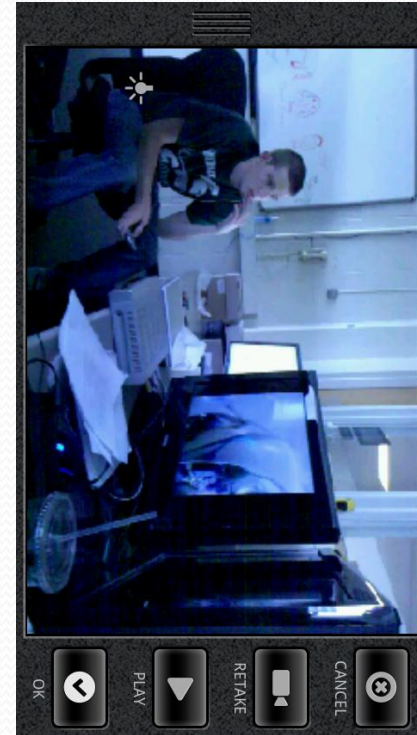
Name	Query	Name	Description	Channel	Time Stamp
Custom Playlist		Ace Ventura	Like a glen	jen	2010-04-20 23:4
		Chris Allen	msu	jen	2010-04-20 23:7
		Chris Farley	SNL	jen	2010-04-20 23:4
		Dumb and Dumb	Our pet's heads a jam	jen	2010-04-20 23:7
		El Niño	SNL	jen	2010-04-20 23:4
		Horse Control	SNL	jen	2010-04-20 23:7
		Dumell Summers	msu	kurt	2010-04-21 12:0
		MSU vs UMich	Football	kurt	2010-04-21 12:0

Name	Description	SP	Port	Name	Description	Add Channel	Edit Channel
Channel 2: The Second Channel	224.5.5.2	11111					
Channel 3: The Third Channel	224.5.5.3	11111					
Channel 4: The Fourth Channel	224.5.5.4	11111					
MSU	Everything MSU	224.5.5.5	11111				

Team Motorola Beta Demonstration



The screenshot displays the Capstone Cable web application interface. At the top left is the Capstone Cable logo. A grey banner contains the text "Welcome to Capstone Cable!" and "Manage your Capstone Cable account. Sign In | Create Account". Below this is a navigation bar with links: Learn, Shop, TV Programming, Customers, User Generated Content (highlighted), and About. The main content area has a green background and includes tabs for "Upload" and "Delete". On the left, there are lists for "Videos" (containing items like demo, demo, demo, demo, demohd, hsjss, jaha, jstsj, test) and "Buddies" (containing bmalicoat, jon, kurt, rob). The central video player shows a video titled "demohd" with a play button and a progress bar. To the right of the video player is a list of "Associated Buddies" (kurt, demo, bmalicoat). At the bottom of the interface are buttons for "Update Video Info", "Update", and "Deassociate".





Team Motorola Beta Demonstration



Team Motorola Beta Demonstration



MOTOROLA MOBILE USER GENERATED VIDEO SERVICES

Video on demand services like Vizio or Comcast On Demand have become very popular over the past decade because of the many benefits they offer to their users. However, these benefits are limited. You can only watch shows and movies you record or watch the programs provided to you by your service provider. You think of the ability to view content of this service. The ability to watch your own videos anywhere you or your friends and family watch TV.

We have developed a system that allows users to upload their own content and make this content accessible via a cable box. The user does this by uploading a video from their computer, iPhone, or Android device to a web service. The user gives the video a name and description, and then selects which of their buddies can view the video.

Once the video is uploaded to the service and buddies are associated, the service adds the appropriate cable boxhead that a new video is available to be viewed. The boxhead then downloads the video and converts it to a format suitable for viewing and serves it to be watched at any time.

The user can navigate through their list of movies on their cable box and select which one they want to watch. Upon selecting a video, it is then streamed to their television.

All services are implemented in Java, deployed on a CloudBeak application server and use a MySQL database. The Android app is developed in Java and the iPhone app in Objective-C using Xcode. All Java is developed in Eclipse.



Michigan State University
Team Members (left to right)

Andrew Thompson
Matt Wright
Brandon Haddock
Francisco Rodriguez
Paul Stewart
Cristian Rodriguez
Richard O'Neil
Derek Morgan

Motorola
Corporate Sponsor

Public Information
Marketing, Events

Team Motorola
Design Day

Raytheon

Contact Us | Connect With Us | RTN 52.72 (-0.07)

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Raytheon to Bring
Powerful Mobile Apps
to Military and
Government Users

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[HOME](#) »

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[Features](#) »

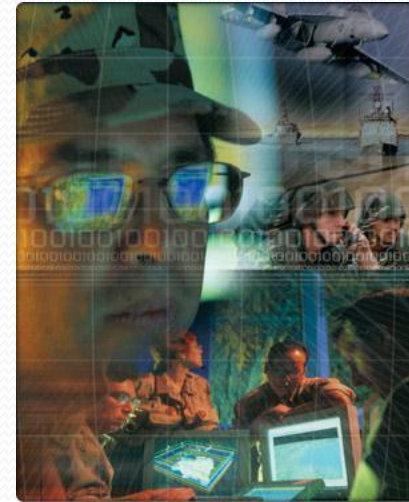
[Newsroom](#) »

Team Raytheon

Project Overview

Common Interface Adaptors for Command Assurance

- Command Assurance
 - Situational Awareness (SA) Tools
 - Provides 2D and 3D Visualizations of Wide Variety of Sensors
 - Broad Spectrum of Data Representations and Transport Mediums
 - Exploits Multiple Map Engines
- Design and Implement Flexible Isolation Layer
 - Between SA Tools and Sensors
 - Design and Implement Standards
 - Data Representation
 - Transport Medium
 - Handle Wide Variety of Sensors
- Technologies
 - Command Assurance SDK
 - Various Sensors
 - Serial and Parallel Input
 - TCP/IP
 - Microsoft Windows
 - Linux



Raytheon

A group photo of four young men standing in an office cubicle. From left to right: Scott Bishop in a blue shirt, Phillip Studans in a light blue and white striped shirt, Austin Gregory in a black shirt, and Tom Parker in a white and blue striped shirt. They are all smiling and standing behind a wooden table with blue chairs.

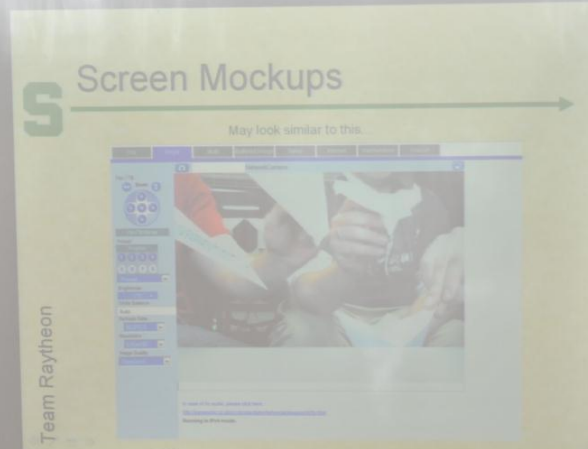
Scott
Bishop

Phillip
Studans

Austin
Gregory

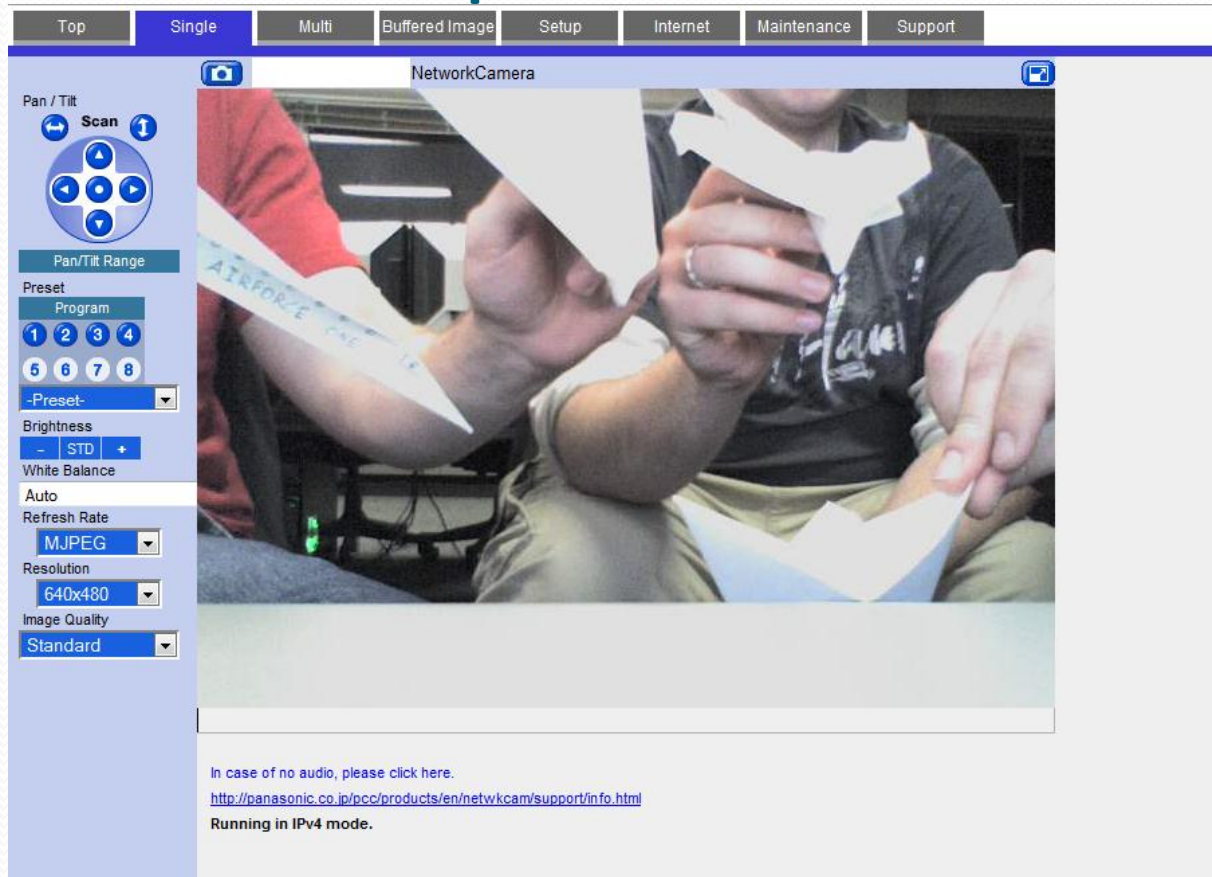
Tom
Parker

Team Raytheon
MSU Team Photo

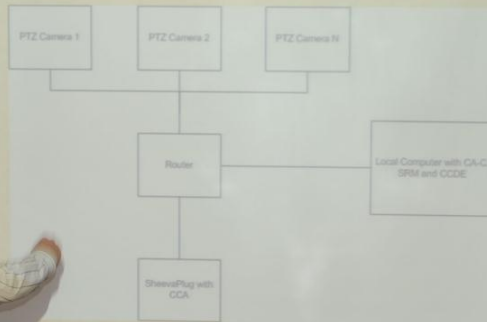


Team Raytheon Project Plan Presentation

Team Raytheon Screen Mockup



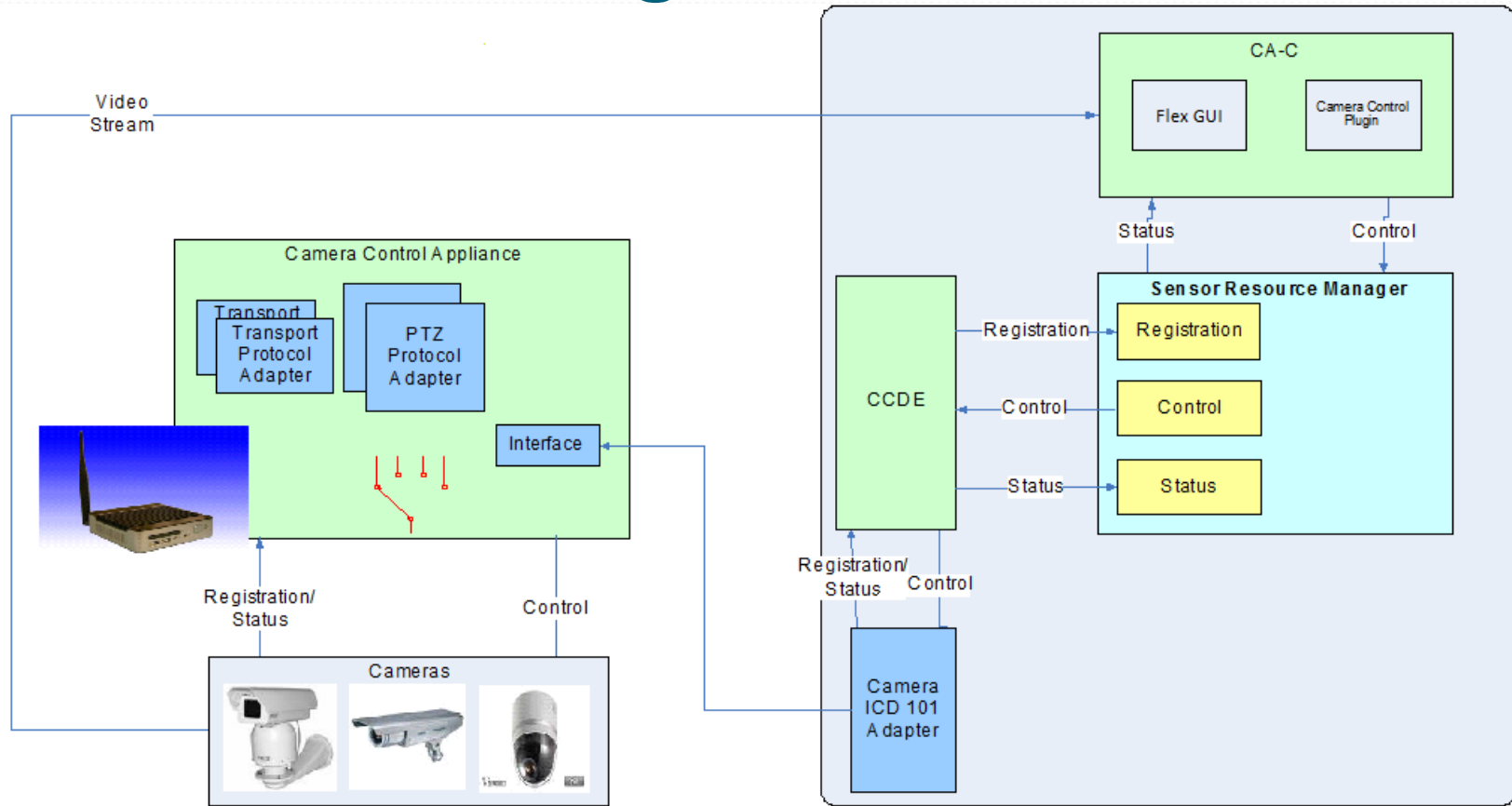
S Architecture Illustrated



Team Raytheon
Project Plan Presentation

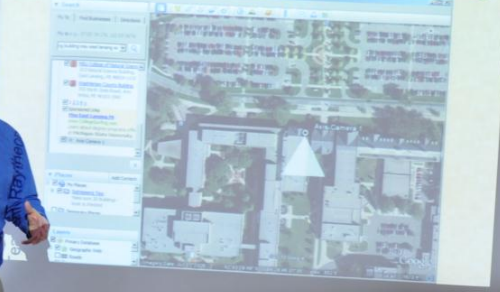
Team Raytheon

Architecture Diagram





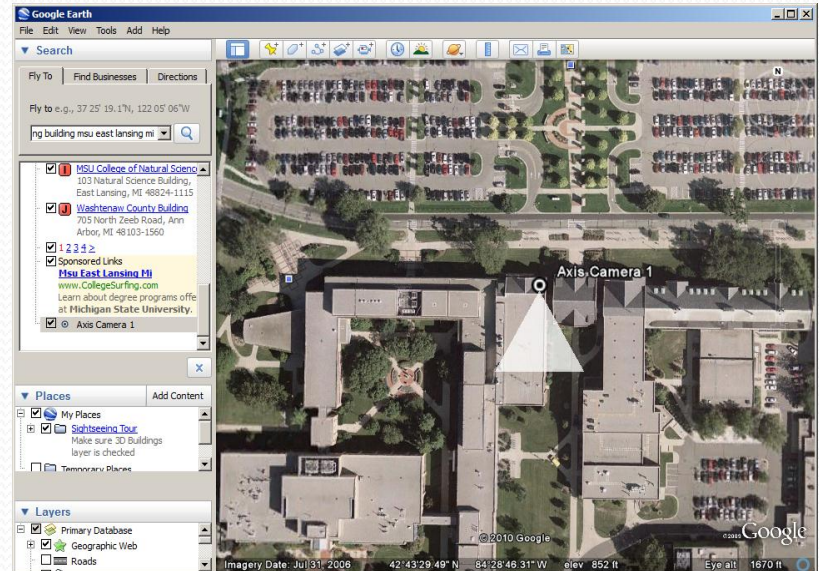
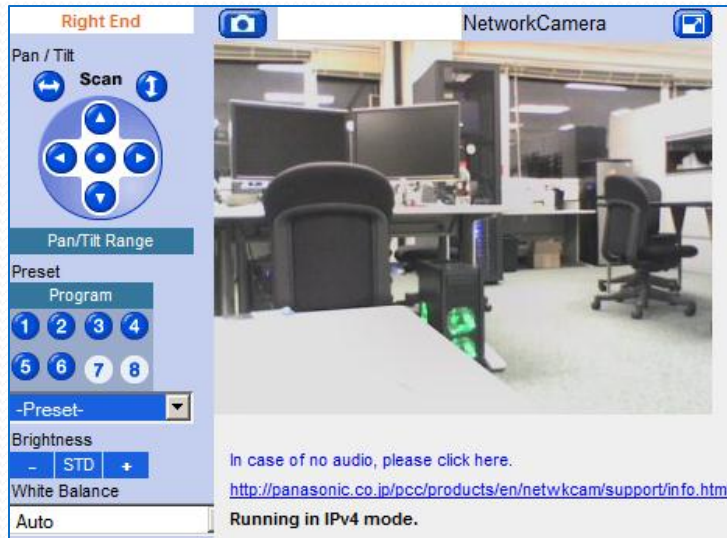
Screen Shot



Team Raytheon
Alpha Demonstration

Team Raytheon

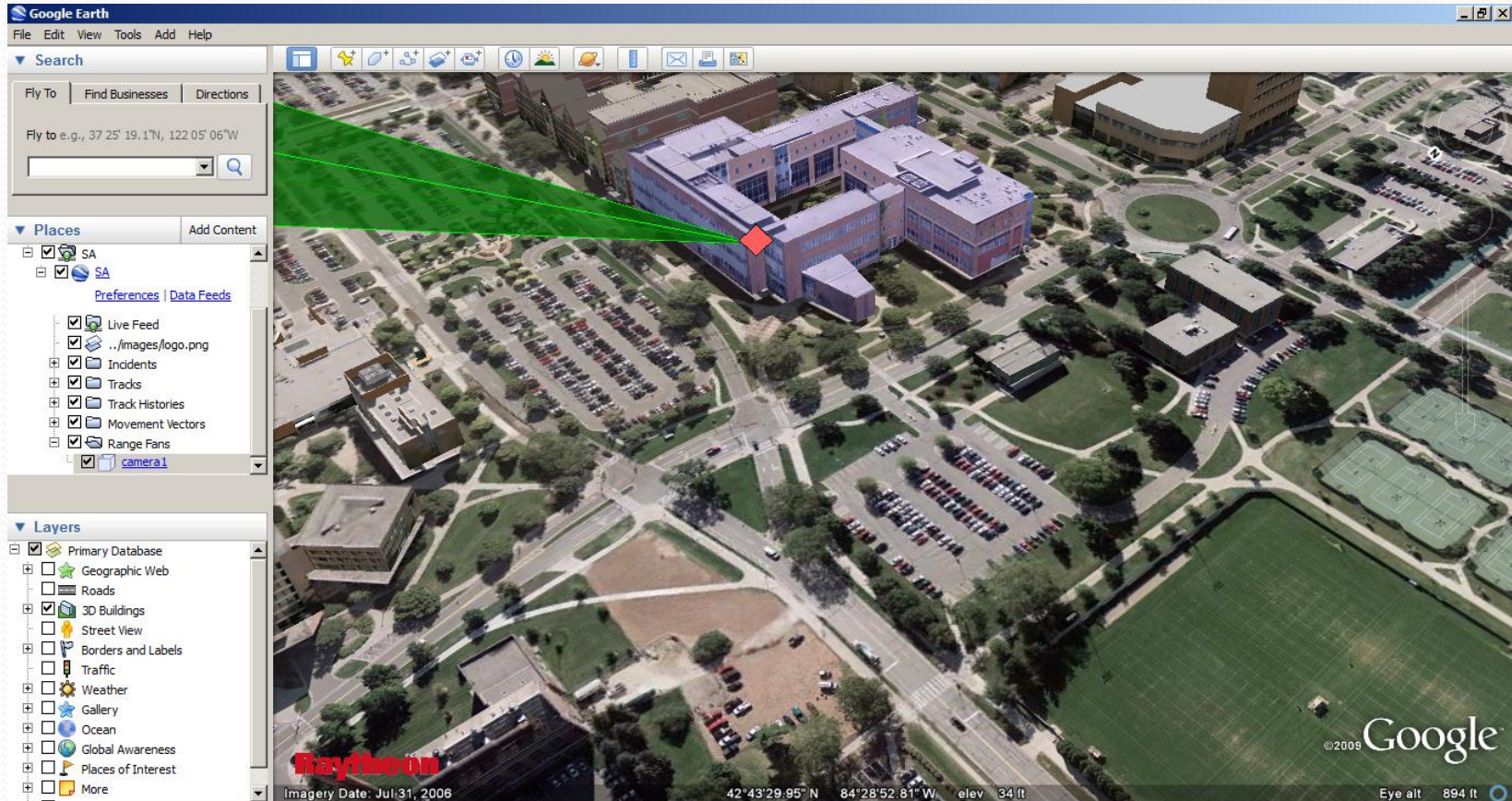
Alpha Demonstration





Team Raytheon
Alpha Demonstration

Team Raytheon Beta Demonstration



Team Raytheon

Beta Demonstration

The screenshot displays the Google Earth Beta Demonstration interface. The main view shows a 3D model of a building complex with a green sensor beam originating from a red sensor icon and pointing towards a specific building. The interface includes a search bar, a places list, and a layers panel. A detailed sensor control panel is overlaid on the right side of the main view.

Google Earth
File Edit View Tools Add Help

Search

Fly To Find Businesses Directions

Fly to e.g., 37 25' 19.1"N, 122 05' 06"W

Places Add Content

- ☒ SA
- ☒ SA
- [Preferences](#) | [Data Feeds](#)
- ☒ Live Feed
- ☒ ../images/logo.png
- ☒ Incidents
- ☒ Tracks
- ☒ Track Histories
- ☒ Movement Vectors
- ☒ Range Fans
- ☒ camera1

Layers

- ☒ Primary Database
- ☐ Geographic Web
- ☐ Roads
- ☒ 3D Buildings
- ☐ Street View
- ☐ Borders and Labels
- ☐ Traffic
- ☐ Weather
- ☐ Gallery
- ☐ Ocean
- ☐ Global Awareness
- ☐ Places of Interest
- ☐ More

Sensor



Name	Stalker 1
Type	Axis 215 PTZ
Azimuth	214°
Position	34°, -101°, 1x
Latitude	42.724944°
Longitude	-84.481336°
Altitude	34 ft
Last Command	Stop

PTZ Control **Configuration** **Limits**

UpLeft	Up	UpRight	ZoomIn
Left	Stop	Right	ZoomOut
DownLeft	Down	DownRight	

Video Feed



Raytheon

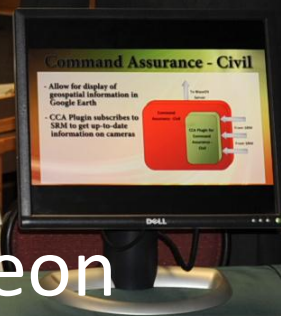
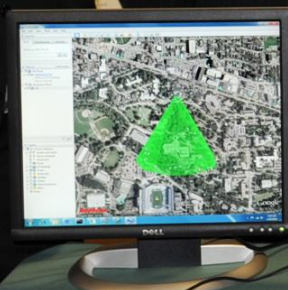
Imagery Date: Jul/31, 2008



Team Raytheon Beta Demonstration



Team Raytheon
Design Day





Language:

English

Deutsch

Français

한국어

日本語

SEARCH

Products

Downloads

Support

Community

Company

Purchase

TechSmith

Snagit

Jing

Camtasia Studio

Camtasia for Mac

Camtasia Relay

Screencast.com

Morae

Snagit

Jing

Camtasia Studio

Camtasia:mac

Camtasia Relay

Screencast.com

Morae



We create recording, communication, effectively present usability and conduct market research.

For over 20 years, we've helped people communicate visually and look great doing it.

Online Store

Volume Discounts

Education Pricing

Gov/Non-Profit Pricing

Contact Sales

Resellers

Free Resources



[Training](#) - Work smarter, faster with our free online tutorials in the Learning Center.

Free Trials

[Snagit](#)

[Jing](#)

Learning & Support

[Tutorials](#)

[Documentation](#)

Team TechSmith Project Overview

Facebook Study Group Application

- Portal for Social Networking Study Group
 - On-line Version of Face-to-Face Study Groups
 - Collaborate Using Rich Media Content Created with TechSmith Products
 - Leverage Features of Facebook Platform
- Students Should be Able to...
 - ...Find Other Students Interested in Same Course
 - ...Invite Friends
 - ...Ask and Answer Questions
 - ...Share Notes
 - ...Create Study Guides
 - ...Rotate a Leader/Moderator
 - ...Etc.
- Technologies
 - Facebook Application Development (PHP, JavaScript, ActionScript 3.0)
 - Web Development (HTML, XML, AJAX, .NET)



A group photo of four men sitting at a long wooden conference table in an office. They are all wearing white dress shirts and ties. The man on the far left is wearing glasses. The background shows office desks with computer monitors.

Chan
Choi

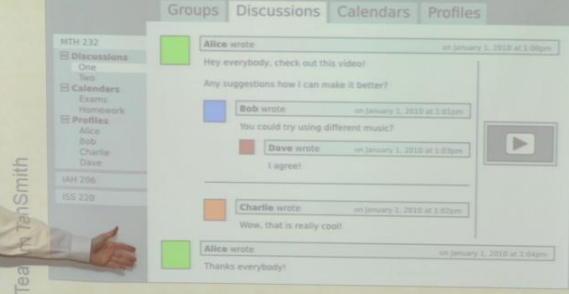
Douglas
Sheffer

Trevor
Jelneck

Ryan
Oswald

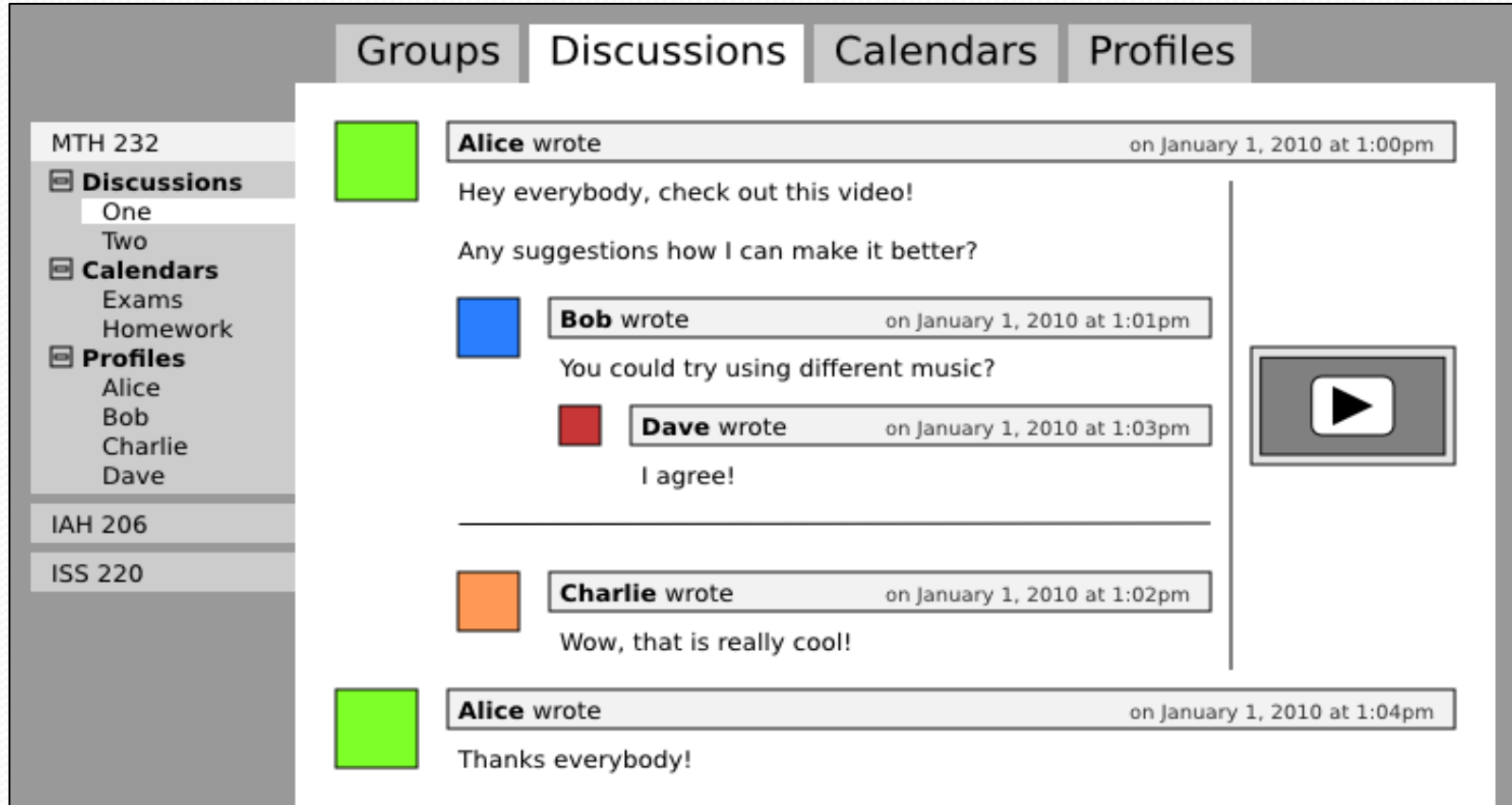
Team TechSmith
MSU Team Photo

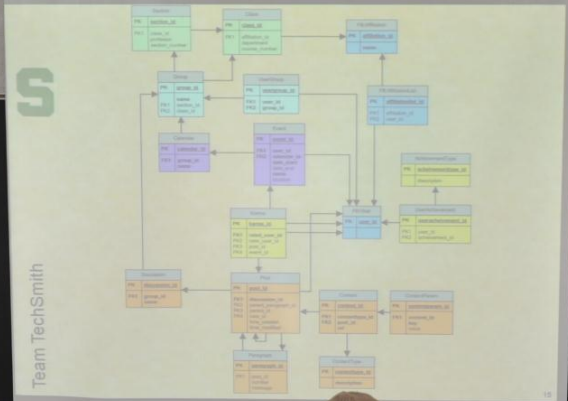
S Screen Mockups



Team TechSmith
Project Plan Presentation

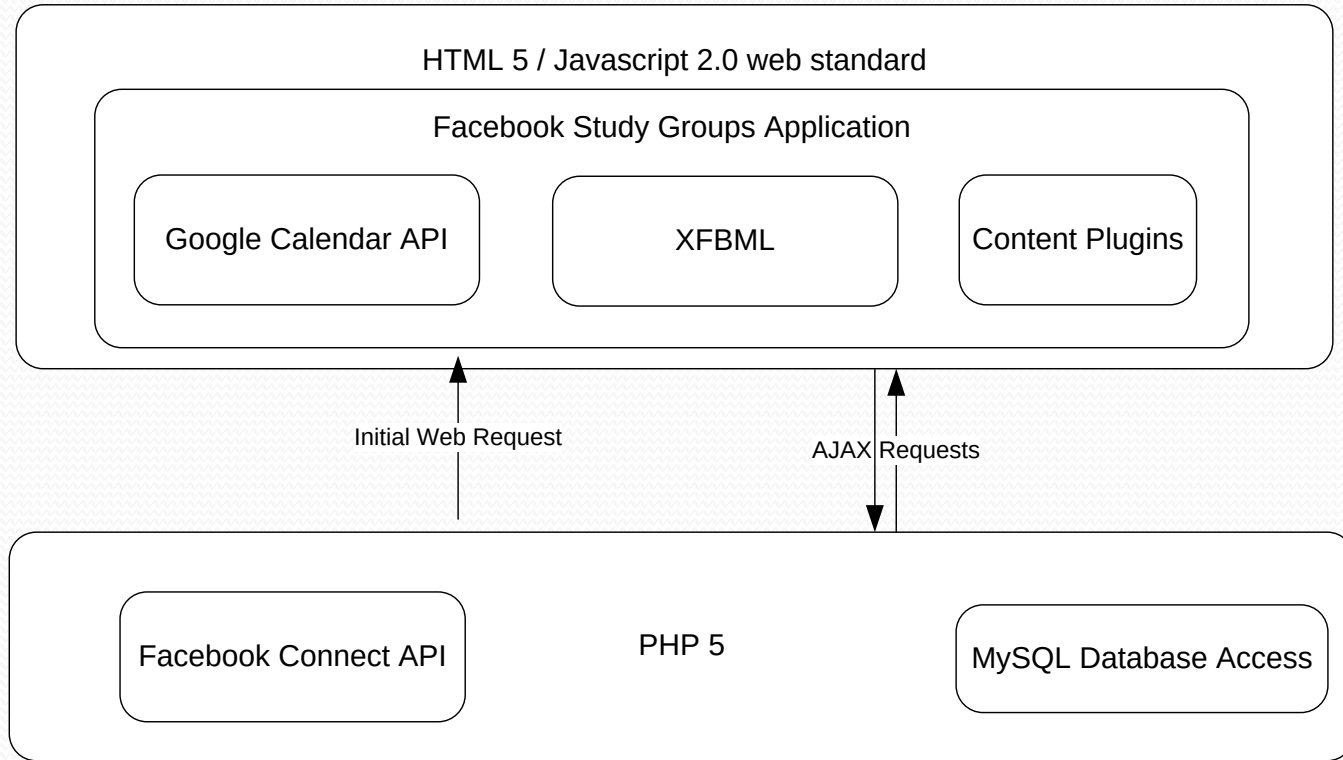
Team TechSmith Screen Mockup



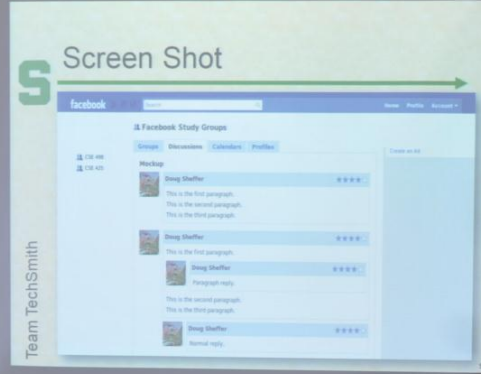


Team TechSmith
Project Plan Presentation

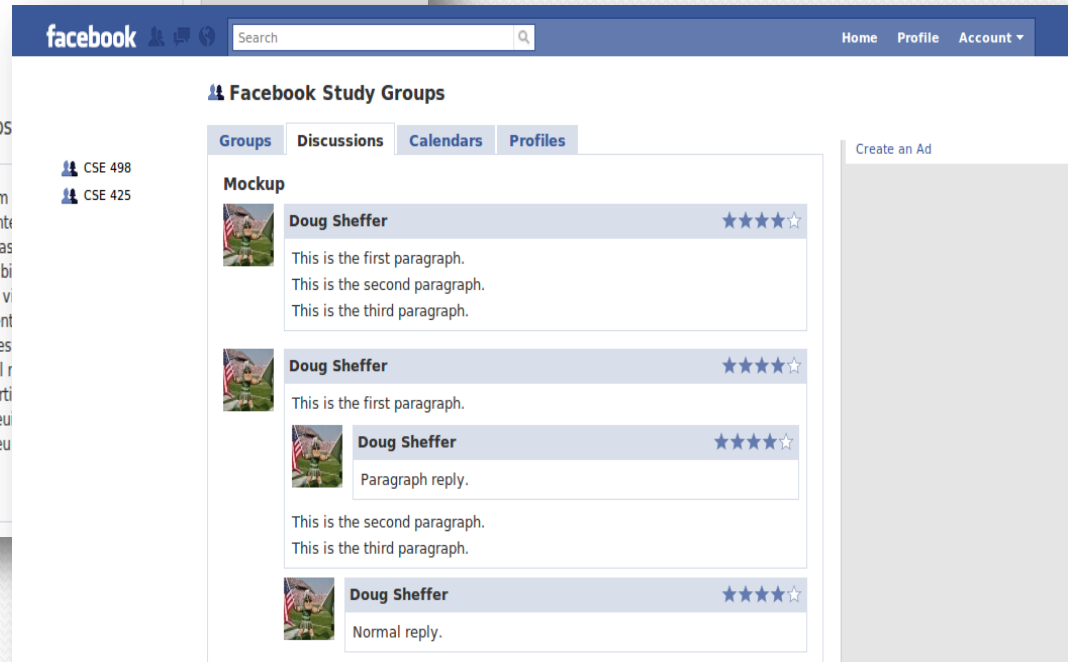
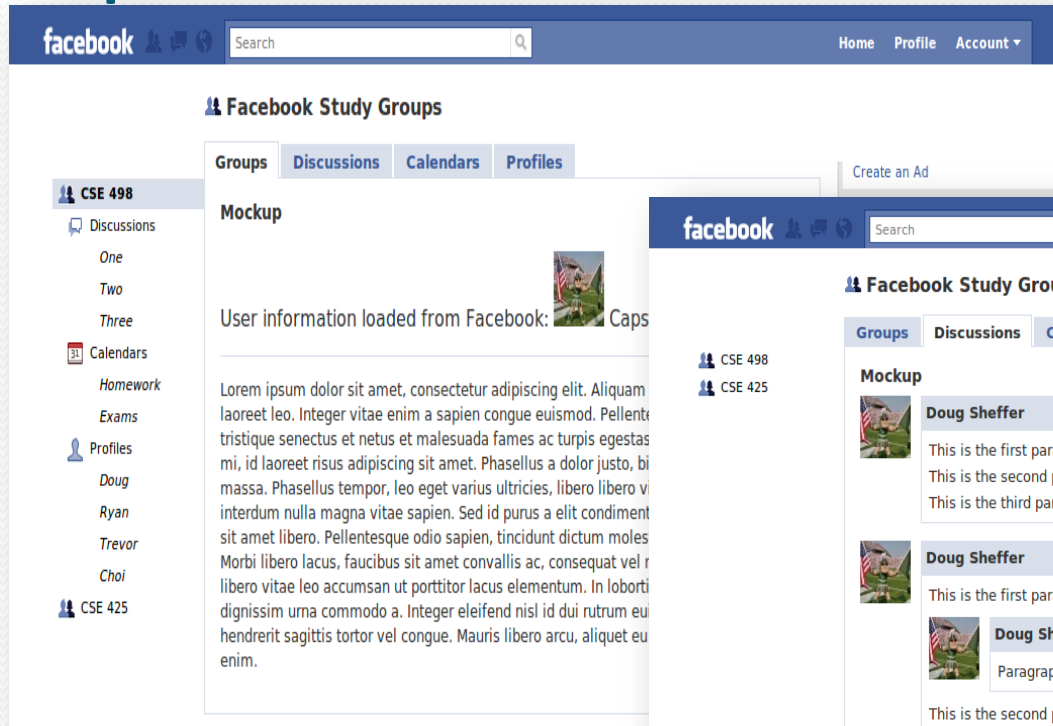
Team TechSmith Architecture Diagram



Team TechSmith Alpha Demonstration



Team TechSmith Alpha Demonstration





Team TechSmith Alpha Demonstration



Team TechSmith Beta Demonstration

Team TechSmith Beta Demonstration

The screenshot shows the 'Study Groups' interface with a sidebar on the left containing links for Home, Demo Group, Discussions, Quizzes, Calendars, and Members. The main content area is titled 'Demo Group > Discussions > Demo Discussion'. It displays a discussion thread by 'Ryan Oswald' with a 3.0 rating. The thread includes a 'First Post' with two paragraphs, a 'Paragraph Reply' section, and a 'Test Powerpoint' slide. The bottom of the interface has an 'Add Post' button.

Study Groups

Discussions Quizzes Calendars Profiles

Demo Group > Discussions > Demo Discussion

Ryan Oswald Reply 3.0

First Post: First Paragraph.
Second Paragraph.

Ryan Oswald Reply 3.0

PPT PPT

1 / 1

Test Powerpoint

Paragraph Reply

Ryan Oswald Reply 3.0

Continued Discussion on replied paragraph

Ryan Oswald Reply 5.0

Post With rating

Continue Discussion

Third Paragraph.

Add Post

The screenshot shows the 'Study Groups' interface with a sidebar on the left containing links for Home, Demo Group, Discussions, Quizzes, Calendars, and Members. The main content area is titled 'Demo Group > Quizzes > Create'. It displays a 'New Quiz' form with fields for Name, Question, and Answer. The form includes three numbered questions and a 'Create' button at the bottom.

Study Groups

Discussions Quizzes Calendars Profiles

Demo Group > Quizzes > Create

New Quiz

Name: Simple Trivia

+ Add a Multiple Choice Question

+ Add an Essay Question

1 Question: What are the primary colors?

+ Add an Option

Answer: a. red, green, blue b. blue, yellow, red c. green, white

2 Question: How many championships does MSU have in basketball?

+ Add an Option

Answer: a. 1 b. 2 c. 3 d. 4

3 Question: What are the words to MSU Shadows?

Answer: And my prayers, MSU.
When from these scenes we wander
And twilight shadows fade,

Create

Team TechSmith

Beta Demonstration

The screenshot shows a web browser window with the URL `http://cse498t09s.cse.msu.edu/study-groups/?fb_sig_in_iframe=1&fb_sig_iframe_key=6512bd43d5`. The page title is "Study Groups". The left sidebar contains navigation links: Home, Demo Group, CSE 498, Discussions, Quizzes, Calendars, Presentation, Members, ME 477, and MSE 466. The main content area has tabs for Discussions, Quizzes, Calendars, and Profiles. The "Calendars" tab is active, showing "CSE 498 > Calendars > Presentation". Below this is a "New Event" form with a "Quick Add" field containing "Project Videos on April 31st at 3pm" and "Create" and "Cancel" buttons. The calendar view is for April 2010, showing a grid of dates. Events are listed for April 12, 13, 18, 19, 20, 21, and 30. The event on April 30 is "9am Design Day". The calendar is powered by Google Calendar.

Study Groups

Discussions Quizzes Calendars Profiles

CSE 498 > Calendars > Presentation + Add an Event

New Event

Quick Add: Project Videos on April 31st at 3pm
(e.g., 5pm Study Session on April 1st, 2010)

Create Cancel

Today April 2010 Print Week Month Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	Apr 1	2	3
4	5	6	7	8	9	10
11	12 3pm Beta Demos	13 3pm Beta Demos	14	15	16	17
18 3pm Beta Demos	19 3pm Beta Demos	20 3pm Beta Demos	21 3pm Beta Demos	22	23	24
25	26	27	28	29	30 9am Design Day	May 1

Events shown in time zone: GMT (no daylight saving)

+ Google Calendar



Team TechSmith Beta Demonstration



Change Region

Dealer Search

Contact Us

Site Search:

Go

Home

Products

Service & Support

Industries

Brands

Spotlight

About Terex



**MATERIALS
PROCESSING & MINING**
UNEARTHING GREATER PROFITABILITY

CONSTRUCTION

ROADBUILDING

UTILITIES

CRANES

AERIAL WORK PLATFORMS

MINING

Terex Delivers Value

At Terex, we are driven by our mission to delight our customers with value-added offerings that exceed their current and future needs. Our commitment to this mission can be seen in everything we do, from our wide

50 Hard-Working Years



In 2009, Terex® commemorates 50 hard working years of the tractor loader

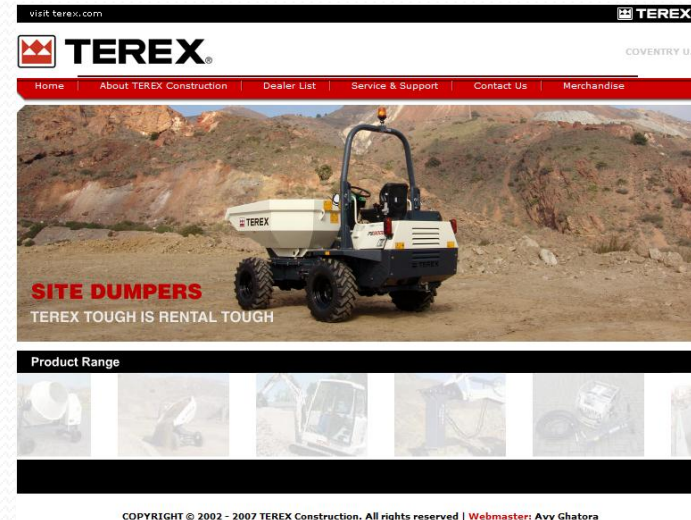
Suppliers

Terex offers growth opportunities to its valued suppliers.

Team Terex Project Overview

Advanced Search for eCommerce

- Existing Terex eCommerce Site
 - Based on Oracle ERP iStore
 - Enhanced to Handle a Variety of Business Requirements
 - User Friendly User Interface
 - Bill of Materials
 - Display of CGM Images via Arbortext Isoviever
- Advanced Search
 - Across XML, pdf, and CGM
 - Stored in Content Management Server
 - Generate and Upload pdf Documents
 - Based on User Selections
 - Sections of XML Documents
 - Include Table of Contents and Page Numbers
- Technologies
 - JSP/JRE Development
 - Content Management Systems
 - XML
 - Arbortext Isoviever
 - PDF Generator Plug-ins



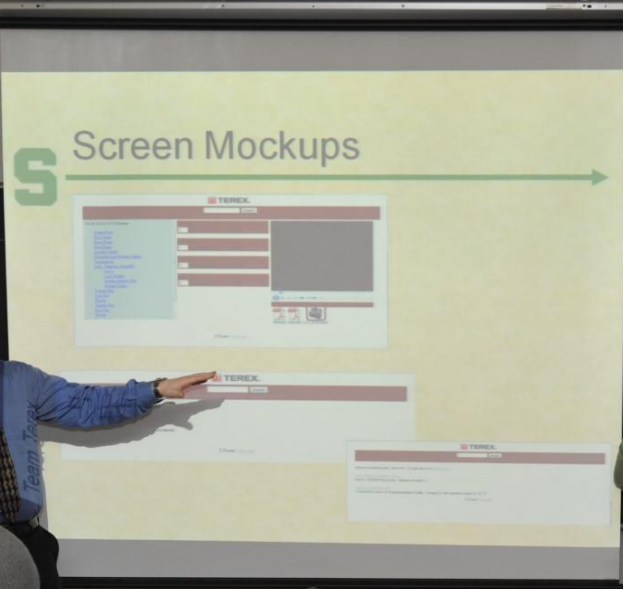
A photograph of three men sitting at a wooden table in an office. The man on the left is wearing a blue shirt and a patterned tie. The man in the middle is wearing a light-colored shirt and a patterned tie. The man on the right is wearing a green shirt. They are all smiling at the camera. In the background, there are windows showing a view of trees and a building.

Stephen
Wakeford

Edward
Messing

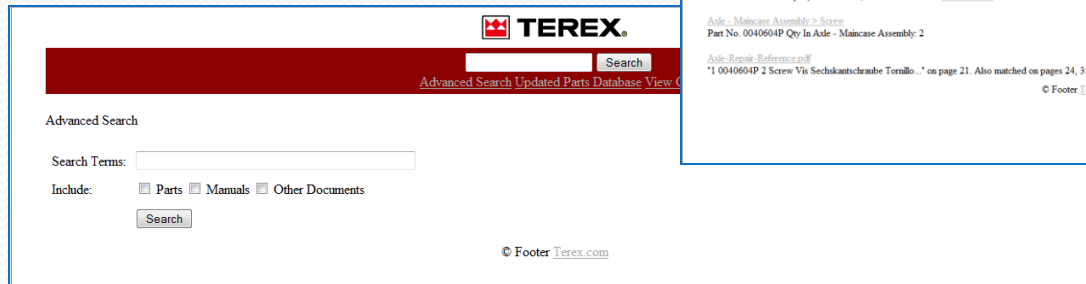
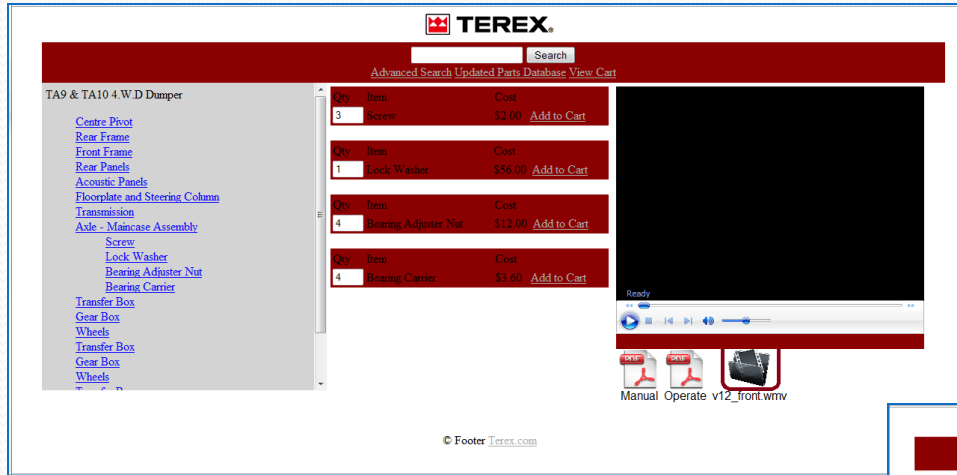
Nicholas
Gregg

Team Terex
MSU Team Photo

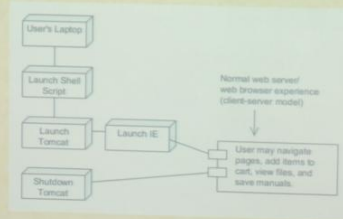


Team Terex
Project Plan Presentation

Team Terex Screen Mockups

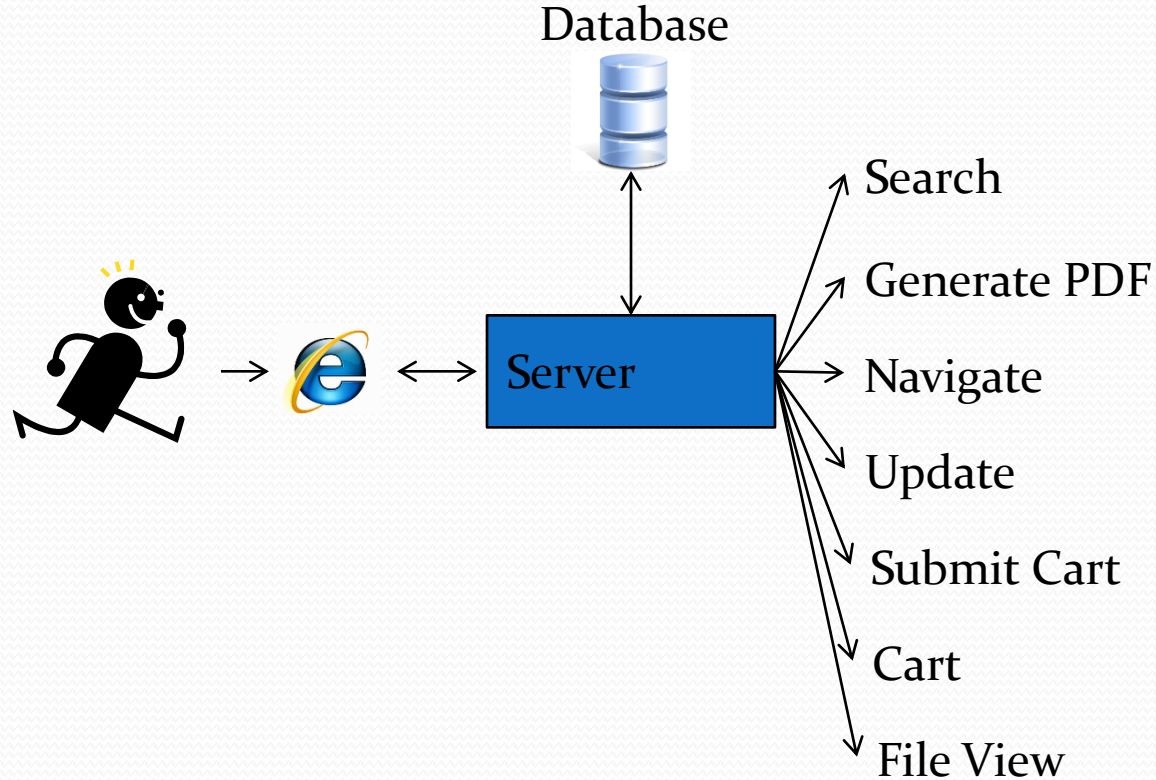


S Architecture Illustrated



Team Terex
Project Plan Presentation

Team Terex Architecture Diagram





TEREX
CORPORATION

Reverse Catalog

Search: [] Go Advanced Search

Database: Reverse Catalog - TEREX & T&E
Alpha Cat

Ref	Part Number	Description
101	10000-0-0000	10000-0-0000
102	10000-0-0000	10000-0-0000
103	10000-0-0000	10000-0-0000
104	10000-0-0000	10000-0-0000
105	10000-0-0000	10000-0-0000
106	10000-0-0000	10000-0-0000
107	10000-0-0000	10000-0-0000
108	10000-0-0000	10000-0-0000
109	10000-0-0000	10000-0-0000
110	10000-0-0000	10000-0-0000
111	10000-0-0000	10000-0-0000
112	10000-0-0000	10000-0-0000
113	10000-0-0000	10000-0-0000
114	10000-0-0000	10000-0-0000
115	10000-0-0000	10000-0-0000
116	10000-0-0000	10000-0-0000
117	10000-0-0000	10000-0-0000
118	10000-0-0000	10000-0-0000
119	10000-0-0000	10000-0-0000
120	10000-0-0000	10000-0-0000
121	10000-0-0000	10000-0-0000
122	10000-0-0000	10000-0-0000
123	10000-0-0000	10000-0-0000
124	10000-0-0000	10000-0-0000
125	10000-0-0000	10000-0-0000
126	10000-0-0000	10000-0-0000
127	10000-0-0000	10000-0-0000
128	10000-0-0000	10000-0-0000
129	10000-0-0000	10000-0-0000
130	10000-0-0000	10000-0-0000
131	10000-0-0000	10000-0-0000
132	10000-0-0000	10000-0-0000
133	10000-0-0000	10000-0-0000
134	10000-0-0000	10000-0-0000
135	10000-0-0000	10000-0-0000
136	10000-0-0000	10000-0-0000
137	10000-0-0000	10000-0-0000
138	10000-0-0000	10000-0-0000
139	10000-0-0000	10000-0-0000
140	10000-0-0000	10000-0-0000
141	10000-0-0000	10000-0-0000
142	10000-0-0000	10000-0-0000
143	10000-0-0000	10000-0-0000
144	10000-0-0000	10000-0-0000
145	10000-0-0000	10000-0-0000
146	10000-0-0000	10000-0-0000
147	10000-0-0000	10000-0-0000
148	10000-0-0000	10000-0-0000
149	10000-0-0000	10000-0-0000
150	10000-0-0000	10000-0-0000
151	10000-0-0000	10000-0-0000
152	10000-0-0000	10000-0-0000
153	10000-0-0000	10000-0-0000
154	10000-0-0000	10000-0-0000
155	10000-0-0000	10000-0-0000
156	10000-0-0000	10000-0-0000
157	10000-0-0000	10000-0-0000
158	10000-0-0000	10000-0-0000
159	10000-0-0000	10000-0-0000
160	10000-0-0000	10000-0-0000
161	10000-0-0000	10000-0-0000
162	10000-0-0000	10000-0-0000
163	10000-0-0000	10000-0-0000
164	10000-0-0000	10000-0-0000
165	10000-0-0000	10000-0-0000
166	10000-0-0000	10000-0-0000
167	10000-0-0000	10000-0-0000
168	10000-0-0000	10000-0-0000
169	10000-0-0000	10000-0-0000
170	10000-0-0000	10000-0-0000
171	10000-0-0000	10000-0-0000
172	10000-0-0000	10000-0-0000
173	10000-0-0000	10000-0-0000
174	10000-0-0000	10000-0-0000
175	10000-0-0000	10000-0-0000
176	10000-0-0000	10000-0-0000
177	10000-0-0000	10000-0-0000
178	10000-0-0000	10000-0-0000
179	10000-0-0000	10000-0-0000
180	10000-0-0000	10000-0-0000
181	10000-0-0000	10000-0-0000
182	10000-0-0000	10000-0-0000
183	10000-0-0000	10000-0-0000
184	10000-0-0000	10000-0-0000
185	10000-0-0000	10000-0-0000
186	10000-0-0000	10000-0-0000
187	10000-0-0000	10000-0-0000
188	10000-0-0000	10000-0-0000
189	10000-0-0000	10000-0-0000
190	10000-0-0000	10000-0-0000
191	10000-0-0000	10000-0-0000
192	10000-0-0000	10000-0-0000
193	10000-0-0000	10000-0-0000
194	10000-0-0000	10000-0-0000
195	10000-0-0000	10000-0-0000
196	10000-0-0000	10000-0-0000
197	10000-0-0000	10000-0-0000
198	10000-0-0000	10000-0-0000
199	10000-0-0000	10000-0-0000
200	10000-0-0000	10000-0-0000

Team Terex
Alpha Demonstration

Team Terex Alpha Demonstration

PART NAME HERE - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:8080/Terex/index.jsp?partID=0804-0-034-A

Most Visited Getting Started Latest Headlines Capstone Triage Embedding Apache D...

Downloads ie7icon.jpg (JPEG Image, 307x267 pi... HTML Forms and Input PART NAME HERE Google Image Result for http://www...

TEREX CORPORATION

Example PDF Product Lines Cart

Search: Go

Current > Browse Catalog > Control Valve

[Add to Cart](#)

Order Pane:

Part Number	Description	Required Qty	# of Units	Unit Price
☐ 1594-1395K	Seal Kit - NLA	-1	-1	0.0
☐ 1594-1395	CONTROL VALVE SINGLE SPOOL (195BAR)	-1	-1	0.0
☐ 1583-1514L	LEVER PIVOT BOX	-1	-1	0.0
☐ 1586-1249H	HANDLE ONLY	-1	-1	0.0
☐ RA277	SEAL BONDED 3/8 BSP	-1	-1	0.0
☐ W141Z	HYD UNION 1/2 BSPMX3/8 BSPM	-1	-1	0.0
☐ W141	"UNION 3/8" BSP M X 3/8" BSP M"	-1	-1	0.0
☐ 1594-1187	HYD HOSE 1/2X1/2 90/S 1420	-1	-1	0.0
☐ 1594-1415	HOSE ASSLY 3/8 3/8 90/135 0 2650	-1	-1	0.0
☐ 1594-1416	HOSE ASSLY 3/8 3/8 90/135 180 2650	-1	-1	0.0
☐ 090-92	SEAL BONDED 1/4INBSP	-1	-1	0.0
☐ Z96	"HYD UNION 1/4" BSP MALE X 1/2" BSP MALE"	-1	-1	0.0
☐ 1594-1418	HOSE ASSLY 1/2 1/2 90/90 270 2030	-1	-1	0.0
☐ 1594-1420	HOSE ASSLY 1/2 1/2 ST/90 1020	-1	-1	0.0
☐ MS33-70	BOLT HEX HEAD M10X70MM	-1	-1	0.0
☐ MS54-10	10MM FLAT WASHER	-1	-1	0.0
☐ MS51-10	NUT NYLOC M10 TYPE P	-1	-1	0.0
☐ 1583-1645	CONTROL VALVE MOUNTING PLATE	-1	-1	0.0
☐ MS127-10	WASHER S.C.R.S. M10 TYPE B	-1	-1	0.0
☐ MS43-35	SETSCREW HEX M10x35	-1	-1	0.0
☐ MS54-10	10MM FLAT WASHER	-1	-1	0.0
☐ 0804-0-040-A Dash		-1	-1	0.0

View Pane:

bottom navigation (footer)

Done

The screenshot displays the Terex Accelerator software interface. At the top, there's a browser window with the URL <http://localhost:8084/Terex/TutorialGv3>. The main header features the Terex logo and a search bar. Below this, a breadcrumb trail reads: **Current > Browse Catalog > TAB & TABS > Accelerator**. A sidebar on the left lists navigation options: **Browse**, **Current**, **Browse Catalog**, **TAB & TABS**, and **Accelerator**. The central area contains a table with the following data:

Description	Required Qty	# of Units	Unit Price
9.100.100.000.000	1	1	0.0
MS	5	1	0.0
DE ACCELERATOR	3	1	0.0
LAT MS FORM A	3	1	0.0
SLIDATOR	3	1	0.0
9.100.100.000.000	2	2	0.0
LAT MS FORM A	3	1	0.0
9.100.100.000.000	2	2	0.0
TOP CHASE	3	1	0.0
BRACKET PUMP END	3	1	0.0
9.100.100.000.000	2	2	0.0
LAT MS FORM A	3	1	0.0
9.100.100.000.000	2	2	0.0

To the right of the table is a technical diagram of a mechanical component, likely an accelerator assembly, with various parts labeled with numbers.

Team Terex
Alpha Demonstration



Team Terex Beta Demonstration

Team Terex Beta Demonstration



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Browse Catalog

Search: [Advanced Search](#)

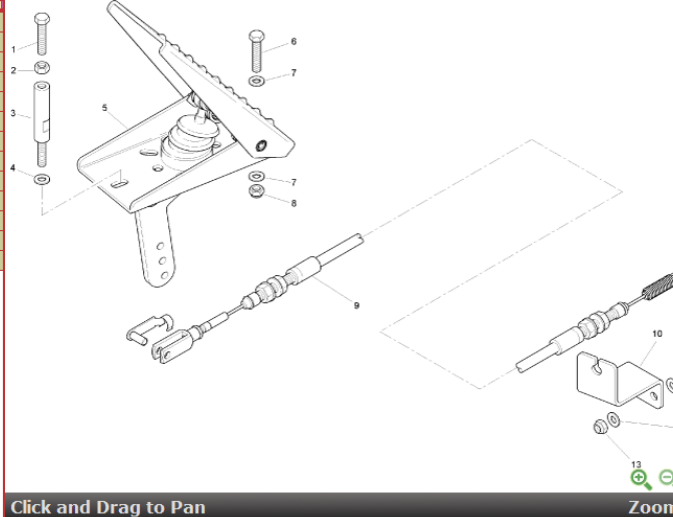
Browse

STEVE

Accelerator
 SETSCREW HX HD M6X
 FULL NUT M6
 PEDAL STOP ACCELE
 WASHER FLAT M6 FORM
 PEDAL ACCELERATOR
 SETSCREW HX HD M6X
 WASHER FLAT M6 FORM
 NUT NYLOC M6 TYPE P
 ACCELERATOR CABLE
 THROTTLE BRACKET PU
 SETSCREW HX HD M6X
 WASHER FLAT M6 FORM
 NUT NYLOC M6 TYPE P
 Acoustic Panels
 Air Cleaner
 Axle - Crown Wheel Asse
 Axle - Hub Assembly
 Axle - Maincase Assembly
 Battery
 Brake Pedal
 Brake Pipes
 Centre Pivot
 Control Valve
 Dash
 Electrics
 Engine
 Engine Components
 Engine Mounts
 Floor Plate And Steering
 Front Frame
 Front Rta Lights
 Front Site Lights
 Fuel Tank
 Gearbox
 Gearbox - External Comp

STEVE > Accelerator

Ref.	Part Number	Part Name	Requ
☐	1 MS41-40	SETSCREW HX HD M6X40MM	1
☐	2 MS50-6	FULL NUT M6	1
☐	3 1597-1079	PEDAL STOP ACCELERATOR	1
☐	4 MS54-6A	WASHER FLAT M6 FORM A	1
☐	5 1597-1069	PEDAL ACCELERATOR	1
☐	6 MS41-25	SETSCREW HX HD M6X25MM	2
☐	7 MS54-6A	WASHER FLAT M6 FORM A	1
☐	8 MS51-6	NUT NYLOC M6 TYPE P	2
☐	9 1594-1480	ACCELERATOR CABLE	1
☐	10 1586-1637	THROTTLE BRACKET PUMP END	1
☐	11 MS41-20	SETSCREW HX HD M6X20MM	2
☐	12 MS54-6A	WASHER FLAT M6 FORM A	1
☐	13 MS51-6	NUT NYLOC M6 TYPE P	2



[Product Lines](#) | [Shopping Lists](#) | [Cart](#) | [Logout](#)



Team Terex Beta Demonstration



TEREX ENTERPRISE

Online document viewing is a new feature of the Terex Enterprise software that allows customers to view documents online. This feature is available to all customers who have purchased a Terex Enterprise software license. The feature allows customers to view documents online, without the need to download the documents to their computer. This feature is available to all customers who have purchased a Terex Enterprise software license. The feature allows customers to view documents online, without the need to download the documents to their computer.



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North Campus Building 100
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Edward Manning
East Lansing, Michigan 48824

Terex
Enterprise Software
Donghai
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Mike Smith
East Lansing, Michigan 48824

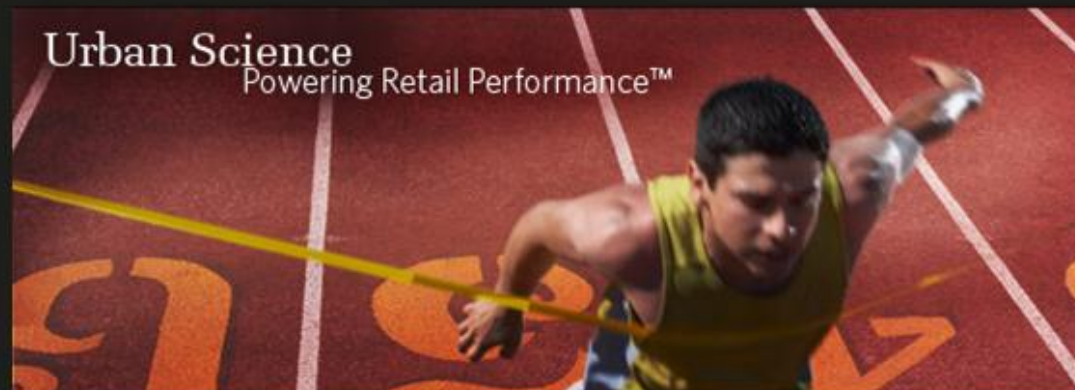
Team Terex Design Day



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Team Urban Science Project Overview

Applications for Mobile Devices

- Urban Science Product Suite
 - Automobile Manufacturers and Dealers
 - Business Analysis Tools
 - Registrations
 - Demographics
 - Sales
 - Designed for Internet Explorer on Desktops or Laptops
- Provide Mobile Access
 - Automated Migration from IE-Ready to Mobile Device
 - Handle Personal Access Point via Login
 - Display Text, Tables, Charts, and Maps
 - Target Blackberry, iPhone
- Technologies
 - Microsoft .NET
 - SQL Databases
 - iPhone
 - Blackberry



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Jeffrey
Meador

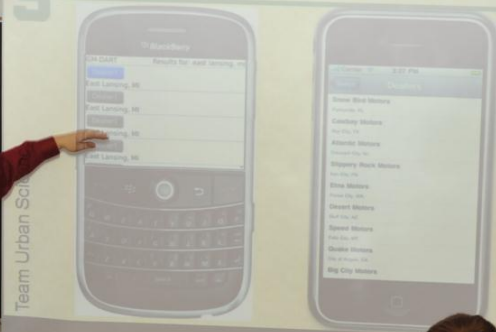
Shaun
Gautz

Kaalem
Lucky

Joshua
Mackaluso

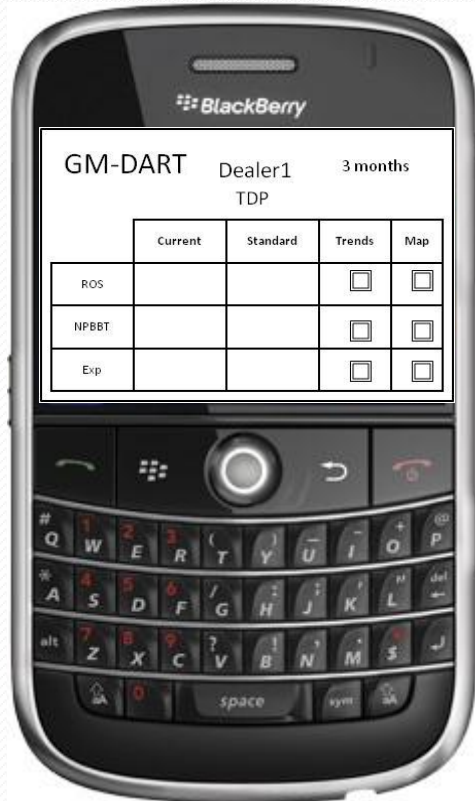
Team Urban Science
MSU Team Photo

Screen Mockups

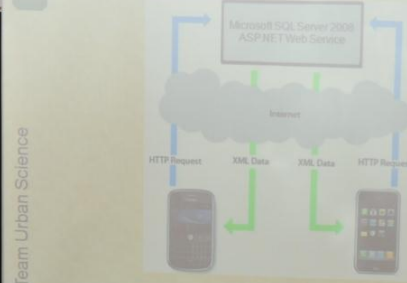


Team Urban Science
Project Plan Presentation

Team Urban Science Screen Mockups

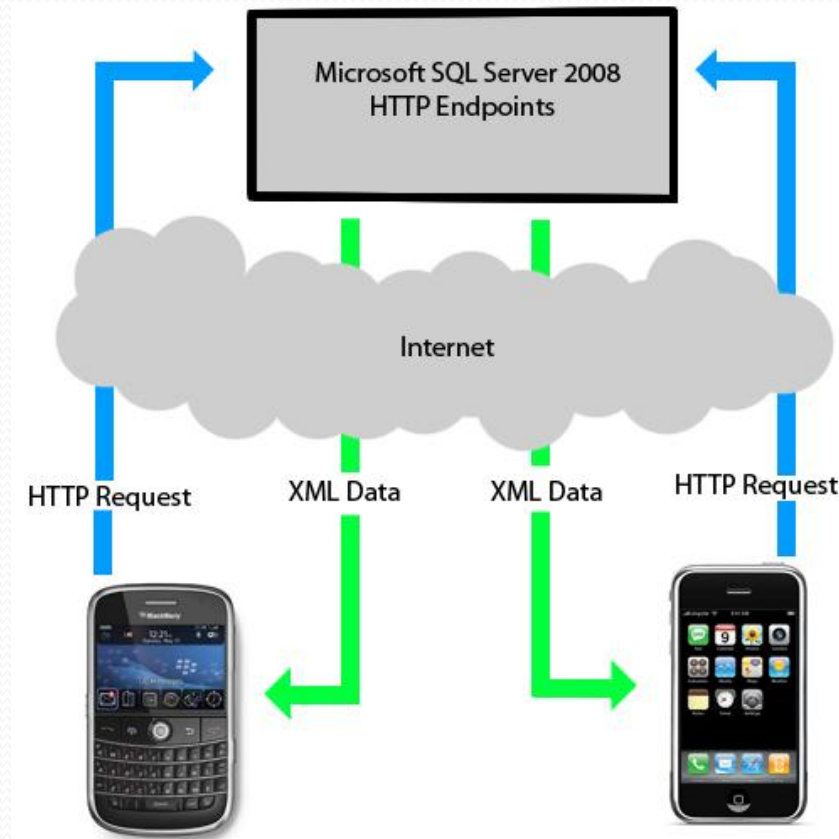


Architecture Illustrated



Team Urban Science
Project Plan Presentation

Team Urban Science Architecture Diagram

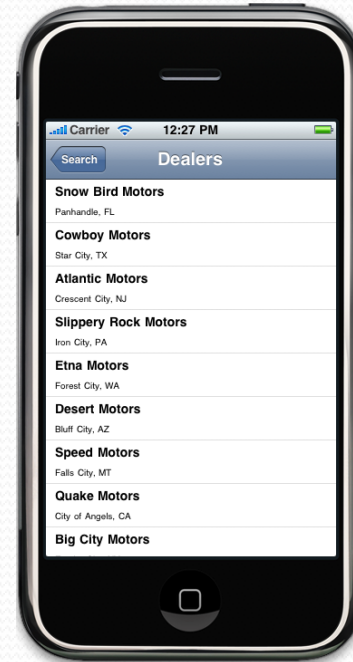


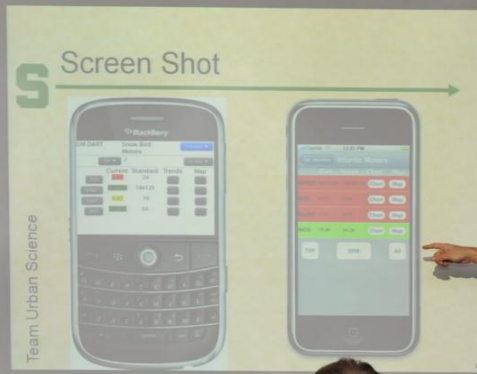


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Alpha Demonstration





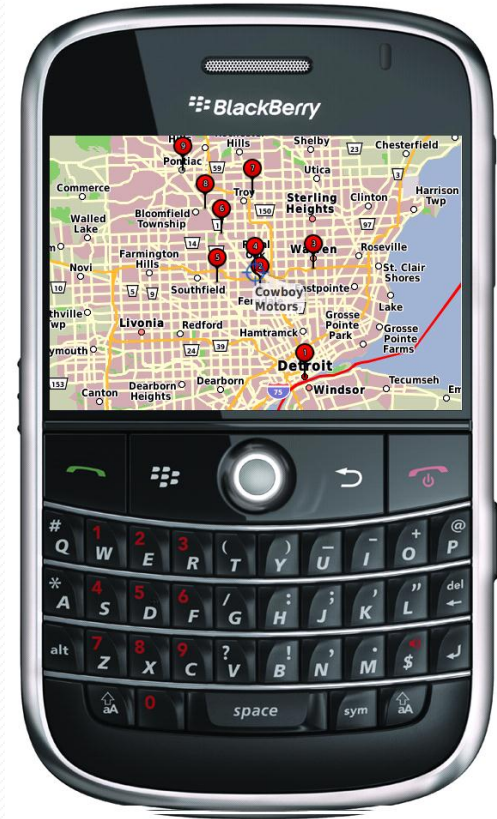
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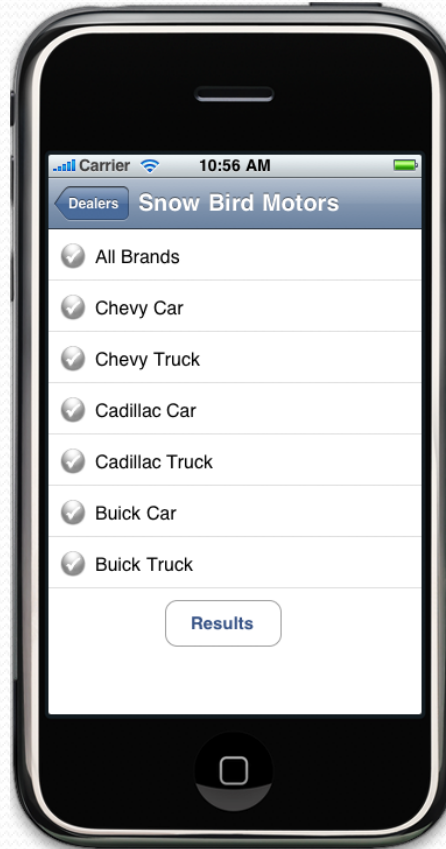
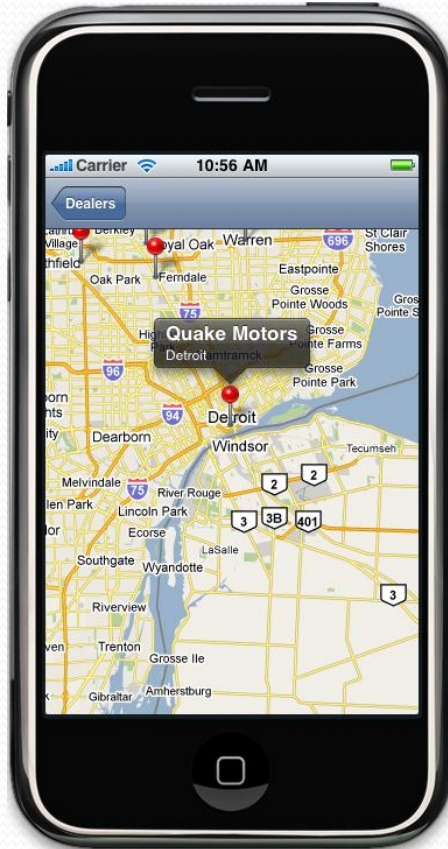
Team Urban Science Beta Demonstration

Team Urban Science

Beta Demonstration



Team Urban Science Beta Demonstration





Team Urban Science Beta Demonstration



URBAN SCIENCE AUTOMOBILE DEALER APPS FOR MOBILE DEVICES

In today's rapidly changing business environment, automotive dealerships have to make important decisions in a matter of minutes. But in order to make these decisions, an automobile dealer has to be well-informed about his or her performance.

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Our applications give users the ability to access dealership performance statistics while "on the run," but only when the application allows users to automatically access statistical data from a cellular device, the application also displays the data in an easy to read fashion via charts, graphs, and maps.

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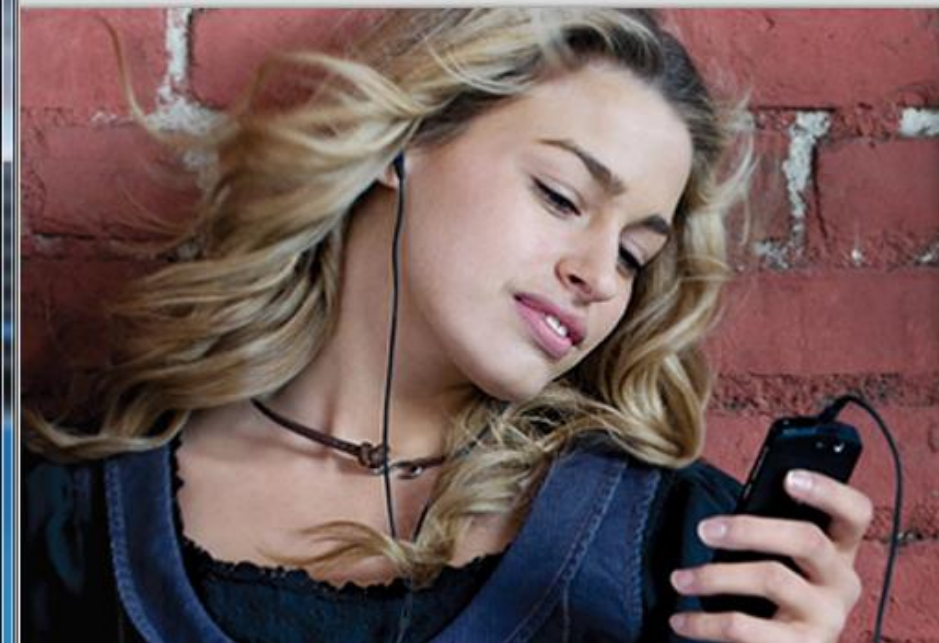
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In 2009, Terex® commemorates 50 hard working years of the tractor loader

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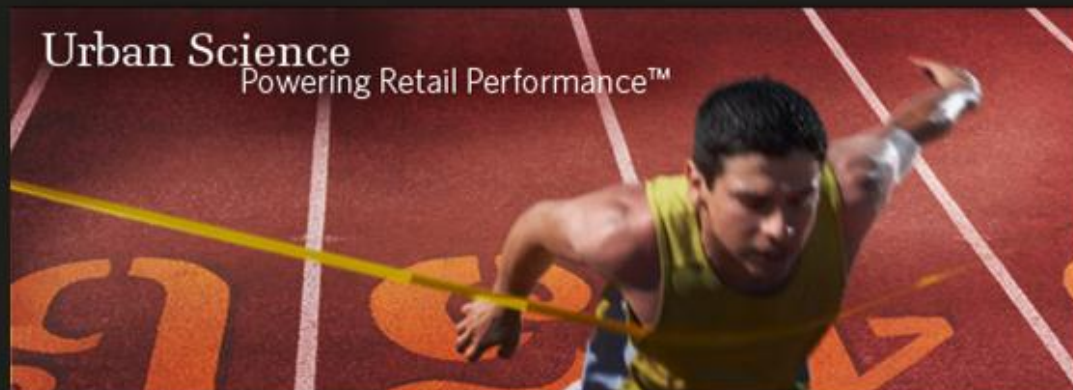
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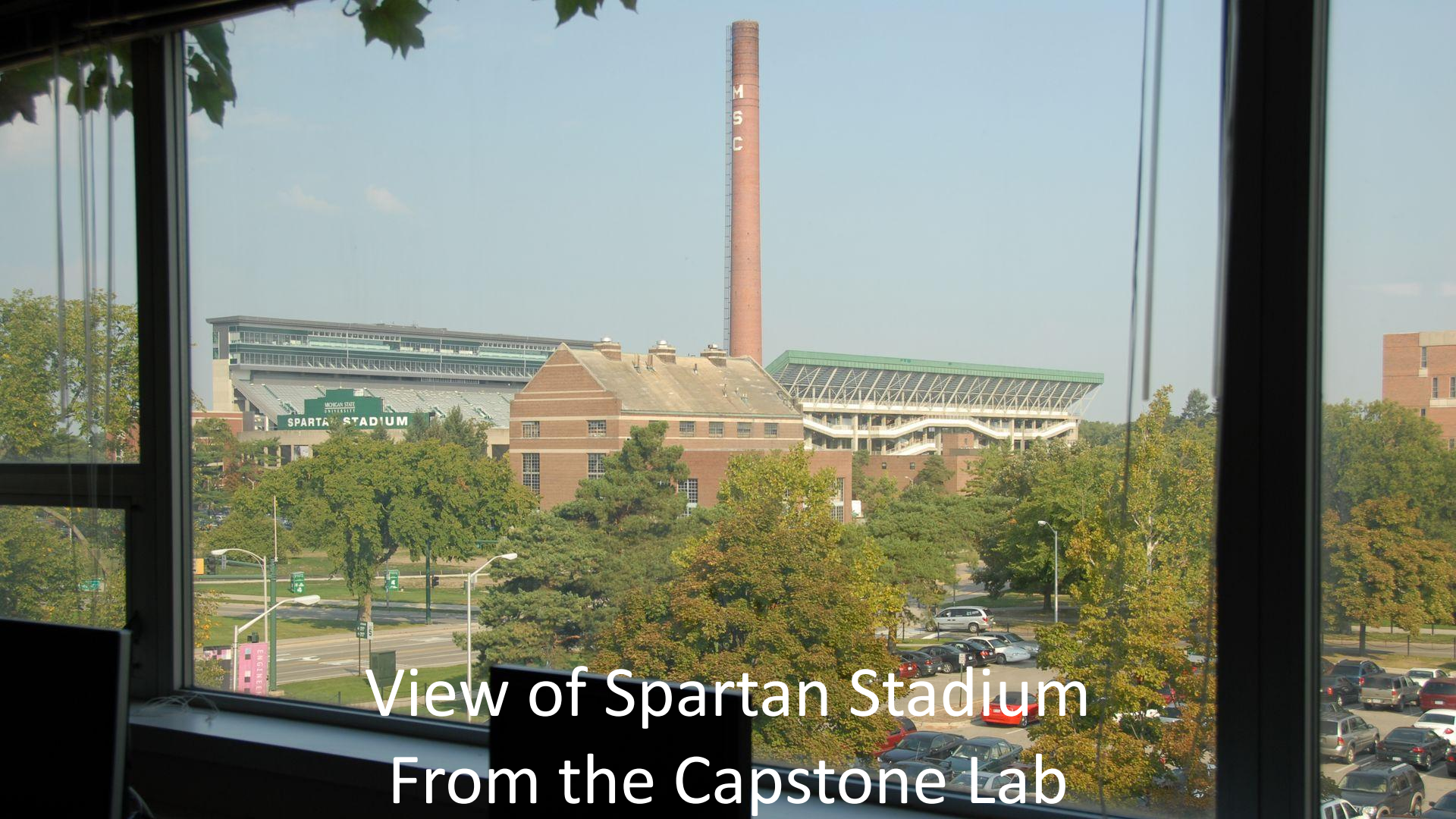
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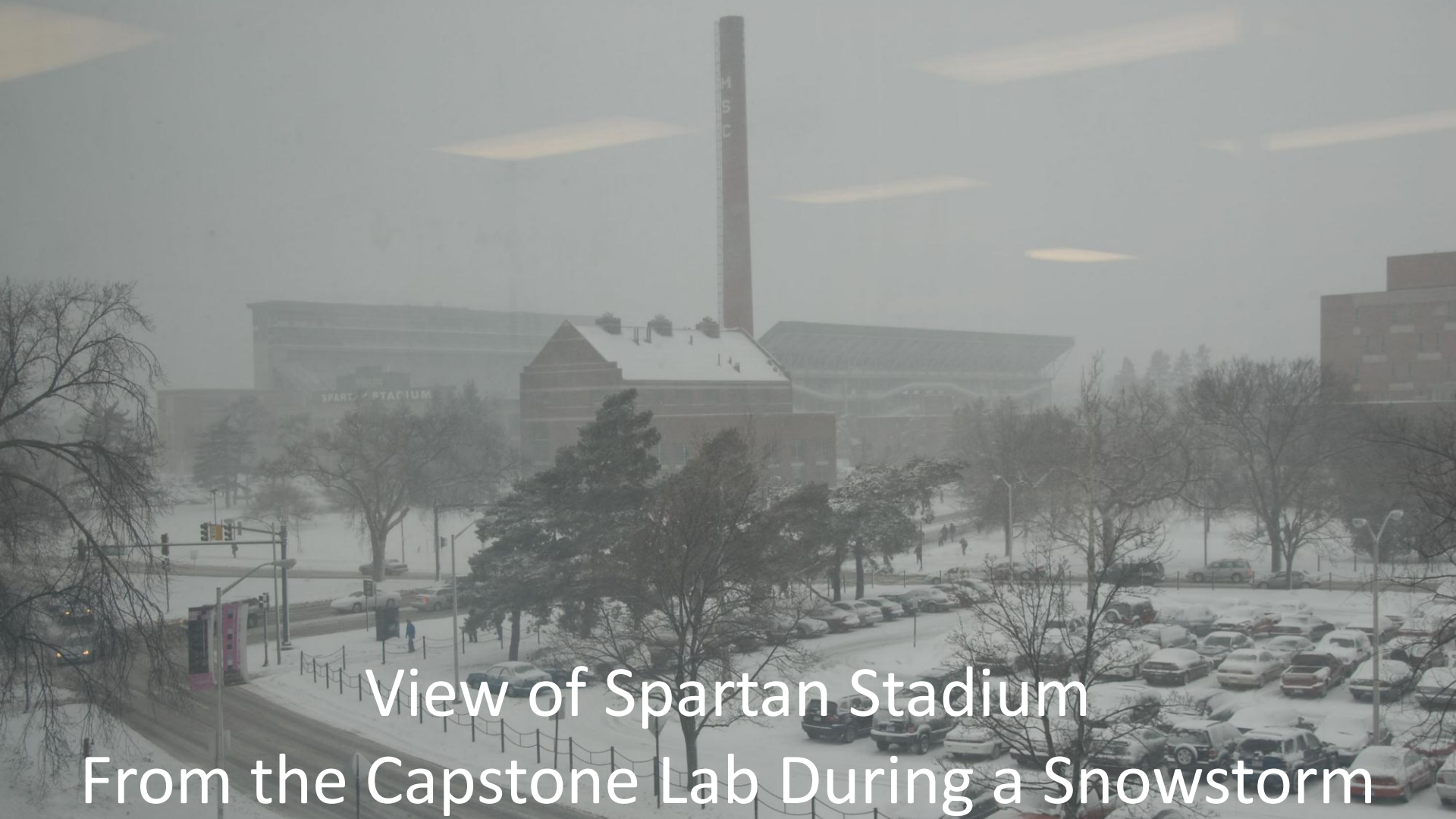
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Spring 2010

Professor Wayne Dyksen



View of Spartan Stadium
From the Capstone Lab



View of Spartan Stadium
From the Capstone Lab During a Snowstorm

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December 5, 2007



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[Rich Media Collaboration](#)

Tom Lavoy, Brandon Turner, Jason Conley, Chris Harter
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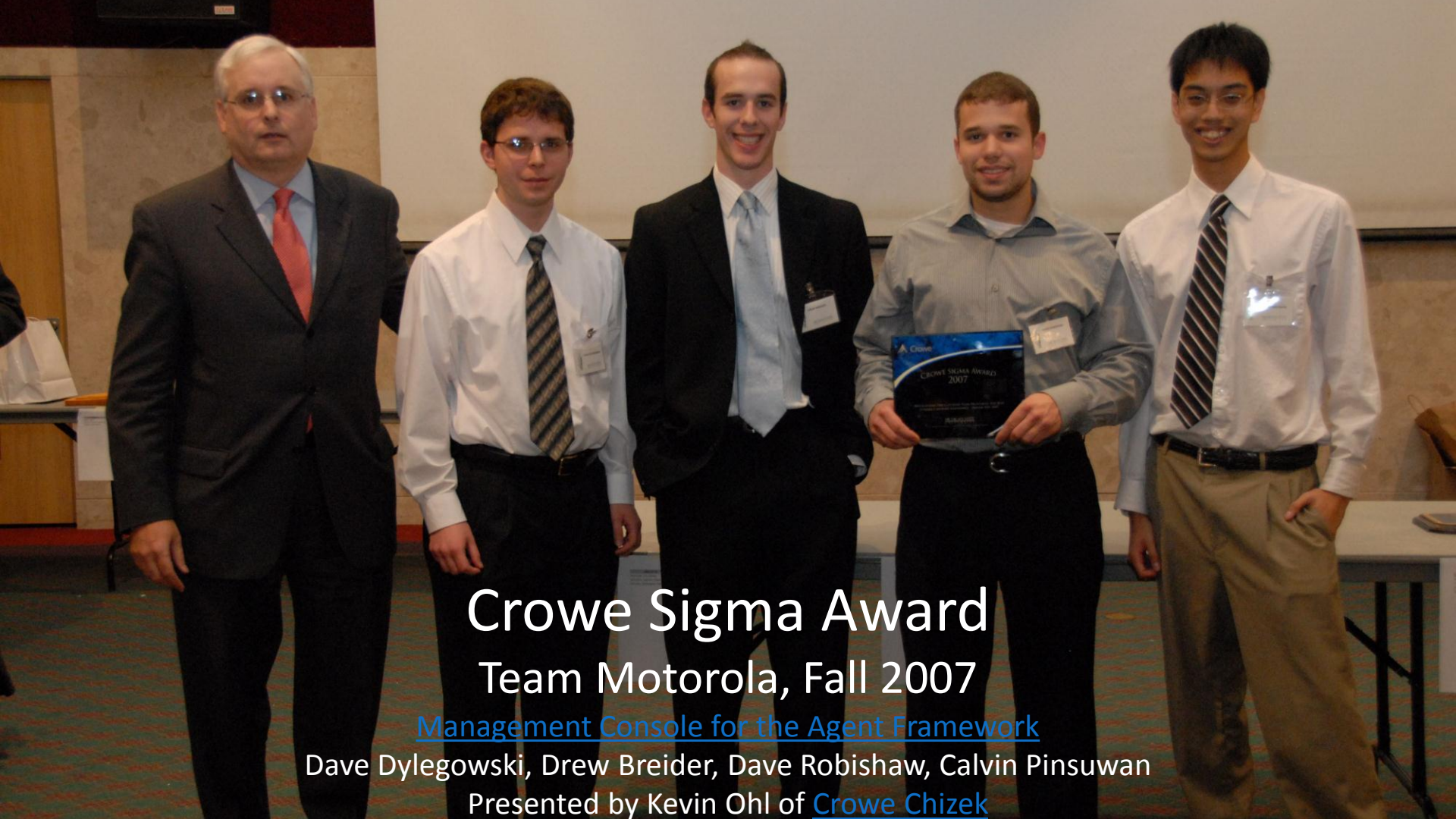
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Team IBM, Fall 2007

[Processor Folding for Linux on POWER](#)

Mark Bernum, Josh Detwiler, Ian Desilva (Not Pictured)

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Crowe Sigma Award

Team Motorola, Fall 2007

[Management Console for the Agent Framework](#)

Dave Dylegowski, Drew Breider, Dave Robishaw, Calvin Pinsuwan

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Team Sircon, Fall 2007

[GUI Configuration Tool for Interviews](#)

Ryan Abbott, Nick Vanhowe, Ben Split, Mike Cracik

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Team Boeing, Spring 2008

[Poseidon Executor 2008](#)

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Austin Drouare, Colin Nemchik, Devin Schnepf, Nathan Crosty
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[WPF Based Interface for Irritrol](#)

Stephanie Cook, Dan Fiordalis, Matt Grabow
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[MUD: A Web-Based Multi-User Drawing Surface](#)

Rob Meyer, Sean Murphy, Kirsten Partyka, Charles Otto

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[Recruiting Contacts and Events System](#)

Tom Randall, Jonathan Lindsey, Ashleigh New, Michael Korynski

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Team TechSmith, Fall 2008

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Brett Lesnau, Jacob Denzer, Brian Walsh, Eric Jensen

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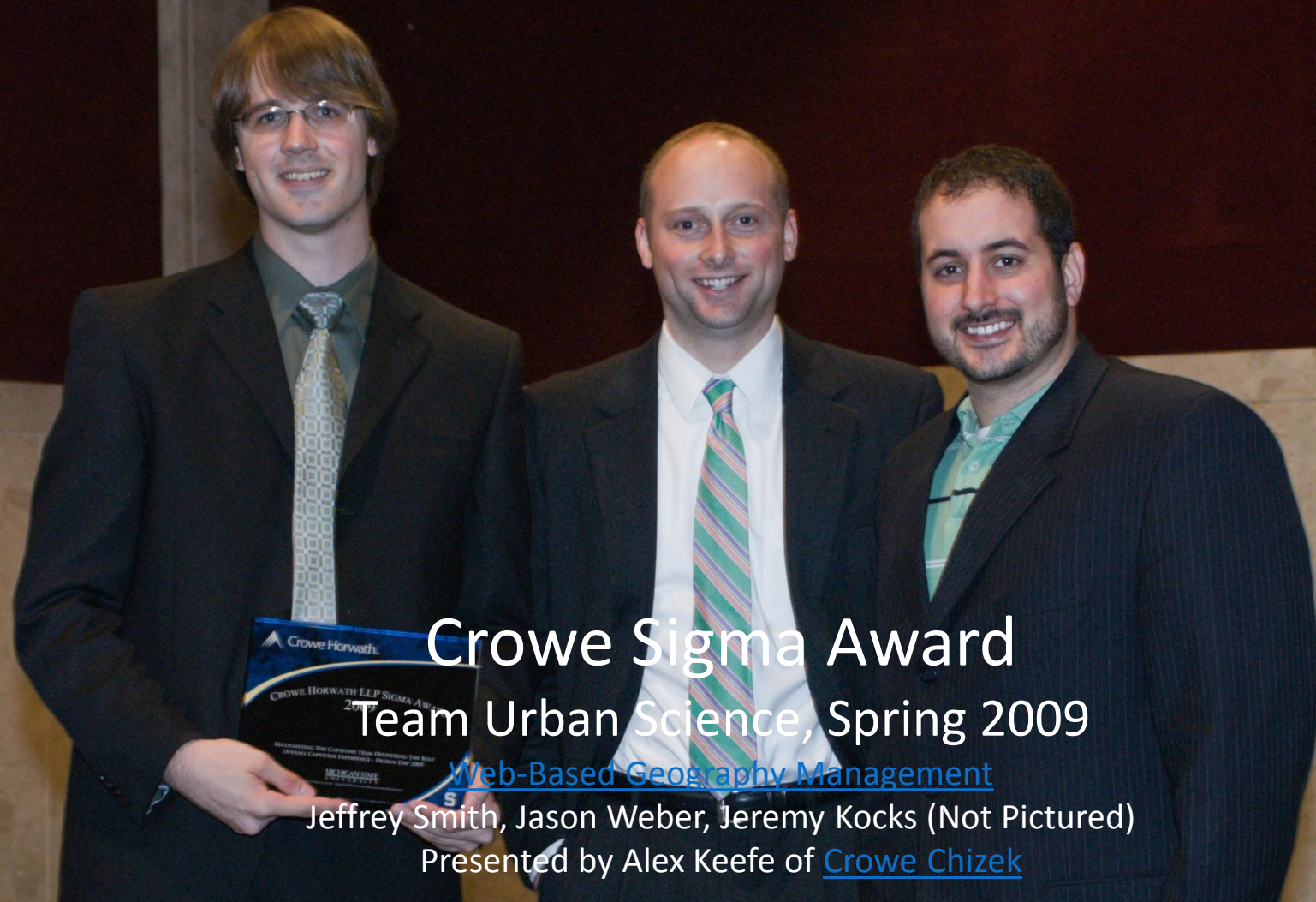
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[User Generated Video Services for Cable Systems](#)

Randy Lyczynski, Bethany Wenzel, Maitland Marsh, Matt Beer

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[Web-Based Geography Management](#)

Jeffrey Smith, Jason Weber, Jeremy Kocks (Not Pictured)

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Team Ford, Spring 2009

[Ford Conference Room Monitor](#)

Gregory Kent, Lauri Marc Ahlman, Nicholas Stumpas, Michael Peteuil

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December 11, 2009



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Team GE Aviation, Fall 2009

[Synthetic Vision Display](#)

Jesse Hacker, Justin Kienle, Andy Inman, Andrew Gerber

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Chrysler Praxis Award

Team Boeing, Fall 2009

[Sparse Virtual Texturing](#)

Adam Starks, Jim Drallos, Alex Kobylarek, Patrick Ohren

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Crowe Sigma Award

Team Motorola, Fall 2009

[User Generated Video Service for the iPhone](#)

Rob Palmer, Ryan Ley, Mary Fetsco, Phil Deschaine

Presented by Dominic DeCicco of [Crowe Chizek](#)



TechSmith Screencast Award

Team Auto-Owners Insurance, Fall 2009

[Applications for Mobile Devices](#)

Lovelesh Chawla, Luke Hospadaruk, Rick Silva

Presented by Dean Craven of [TechSmith](#)



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Design Day Award Winners

April 30, 2010



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Team GE Aviation, Spring 2010

Flight Deck Lateral Map Display

Jason Ridgon, Jordan Clare, Cory Sites, Adam Dupler
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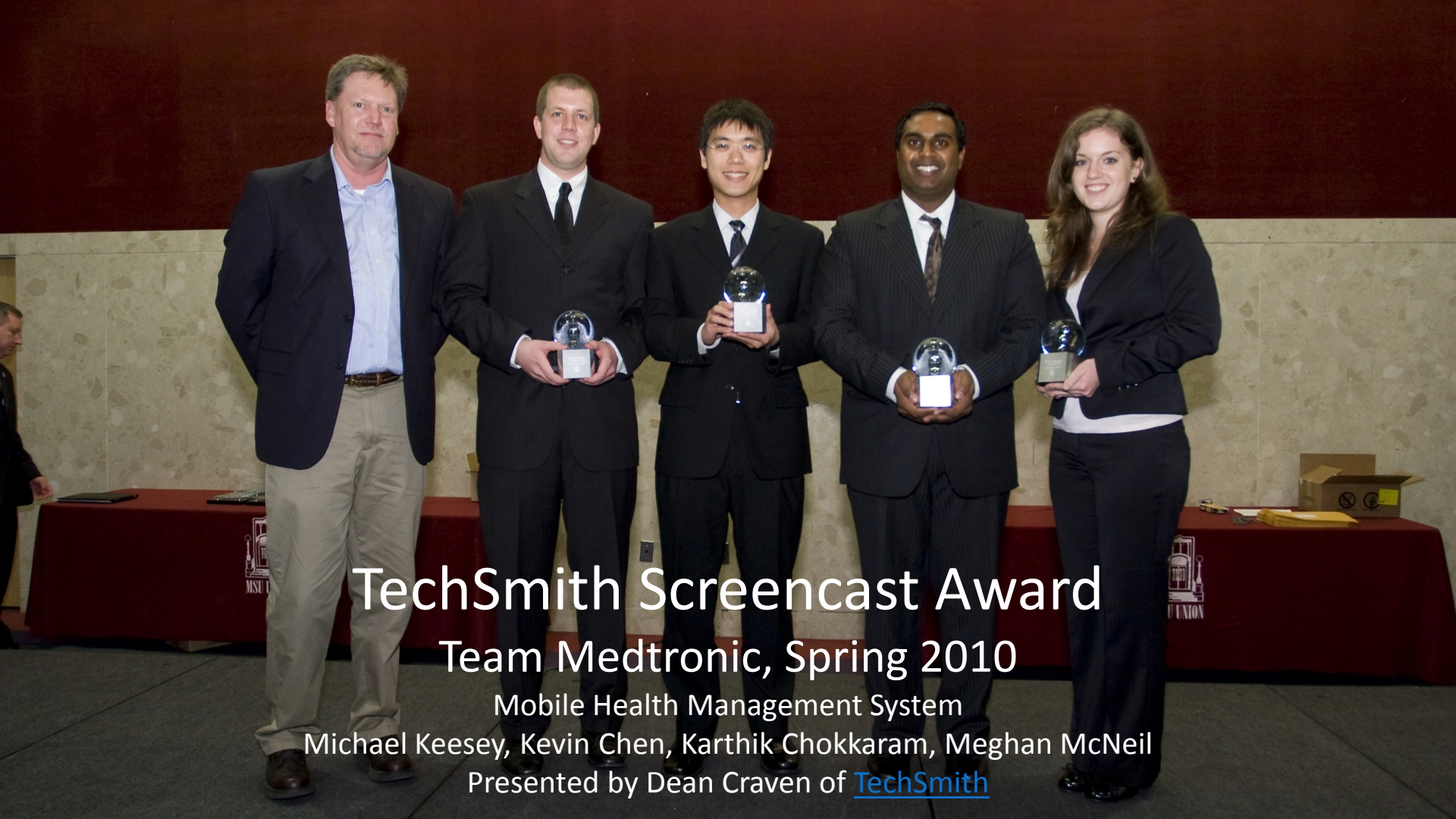
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Jeremiah Cunningham, Jessica Parks, Marc Coleman, Jonathan Harris

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Mobile Health Management System

Michael Keeseey, Kevin Chen, Karthik Chokkaram, Meghan McNeil

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Mobile User Generated Video Service

Kurt Seippel, Robert Gaul, Jonathan Szykowski, Brandon Malicoat

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