

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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

Course Goals

- Build a Significant Software System
- Work in a Team Environment
- Learn New Tools and Environments
- Build and Administer Systems
- Develop Communication Skills
- Develop Interview Talking Points
- Consider Issues of Ethics and Professionalism



Course Goals

- Teams of Students
- Build Significant Software System
 - Design
 - Develop
 - Debug
 - Document
 - Deliver
- For Corporate Clients
- In 15 (Short) Weeks



Project Deliverables

- Project Plan Document & Presentation
- Alpha Presentation
- Beta Presentation
- Project Software & Documentation
- Project Video
- Design Day

See [Major Milestones](#).



All-Hands Meetings

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



All-Hands Meetings

- 01/10: Course Overview
- 01/12: Project Plan
- 01/17: (Martin Luther King Day, No Meeting)
- 01/19: Project Schedule and Risk
- 01/24: Team [Status Reports](#)
- 01/26: Prototyping
- 01/31: Team [Project Plan Presentations](#)
- 02/02: Team [Project Plan Presentations](#)
- 02/07: Team [Project Plan Presentations](#)
- 02/09: Team [Project Plan Presentations](#)
- 02/14: Resume Writing and Interviewing
- 02/16: Creating and Giving Presentations
- 02/21: Team [Alpha Presentations](#)
- 02/23: Team [Alpha Presentations](#)
- 02/28: Team [Alpha Presentations](#)
- 03/02: Team [Alpha Presentations](#)
- 03/07: (Spring Break, No Meeting)
- 03/09: (Spring Break, No Meeting)
- 03/14: [Design Day](#) and the [Project Videos](#)
- 03/16: Camtasia Demo
- 03/21: Team Status Reports
- 03/23: Team Status Reports
- 03/28: Team Status Reports
- 03/30: Team Status Reports
- 04/04: Team [Beta Presentations](#)
- 04/06: Team [Beta Presentations](#)
- 04/11: Team [Beta Presentations](#)
- 04/13: Team [Beta Presentations](#)
- 04/18: Ethics and Professionalism
- 04/20: Intellectual Property and Copyright
- 04/25: Team [Project Videos](#)
- 04/27: Team [Project Videos](#) and [All Deliverables](#)
- 04/28: [Design Day](#) Setup
- 04/29: [Design Day](#)
- 05/03: Team Project Videos



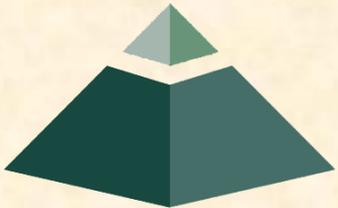
MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Team Auto-Owners

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



Auto-Owners Insurance

Life Home Car Business

The "No Problem" People®

Auto-Owners Insurance

[Customer Center](#) | [Career Center](#) | [Media Center](#)

[Our Products](#)

[Find an Agency](#)

[Corporate Information](#)

[Customer Claims](#)

search

Go!



Life

protecting your family



Home

property & liability



Car

security while on the road



Business

guarding your investment

The "No Problem" People[®]

Have questions? Want coverage? See why thousands of customers nationwide rely on Auto-Owners for "No Problem" service in life, home, car, or business insurance.



[CUSTOMER CENTER](#)

[Find an Agency](#)

[Career Center](#)

Team Auto-Owners Project Overview

Agent Multimedia Advertisement Builder

- Build Auto-Owners Advertisements
 - Customized by and for Independent Agents
 - Utilize Corporate Templates
- User Features
 - Upload Text, Photos, Images, Audio, and Video
 - Save , Open , Edit, Produce, and Submit
 - Shopping Cart
- Administrative Features
 - Manage User Profiles
 - Manage Ad Templates
 - Review, Approve, and Track Ads
- Technologies
 - Java / Eclipse
 - Struts 2
 - DB2 (Relational Database)

The screenshot shows the Auto-Owners Insurance website's Media Center. The header includes the company logo and navigation links: Home, Customer Center, Career Center, and Media Center. Below the header is a secondary navigation bar with links for Our Products, Find an Agency, Corporate Information, and Customer Claims, along with a search bar. The main content area is titled "Media Center" and contains a description of the co-op advertising program. Below the text are three buttons labeled "Radio", "Television", and "Print". A sidebar on the left contains links for "EDIT MY PROFILE", "RADIO", "TELEVISION", and "PRINT MEDIA", as well as a section titled "Why Choose Auto-Owners?" with a bulleted list of benefits.





Patrick
Nelson

Joe
Korolewicz

Dan
Jones

Team Auto-Owners
Team Photo

Team Auto-Owners Screen Mockup

Auto-Owners Insurance Home Customer Center Career Center Media Center

Our Products Find an Agency Corporate Information Customer Claims search

Home » Media Center » Print Media » Discounts

Print Media

GUIDELINES FOR USE OF PRINT ADS

- With the exception of adding your agency information and logo, print ads may not be altered, resized, edited, or modified in any way without prior approval from Home Office Advertising.
- The publication in which you choose to place your ad will add your agency information.
- Please feel free to contact Home Office Advertising or your marketing representative with any questions.
- While all ad copy provided is in color, your printer can easily switch these versions to black and white.

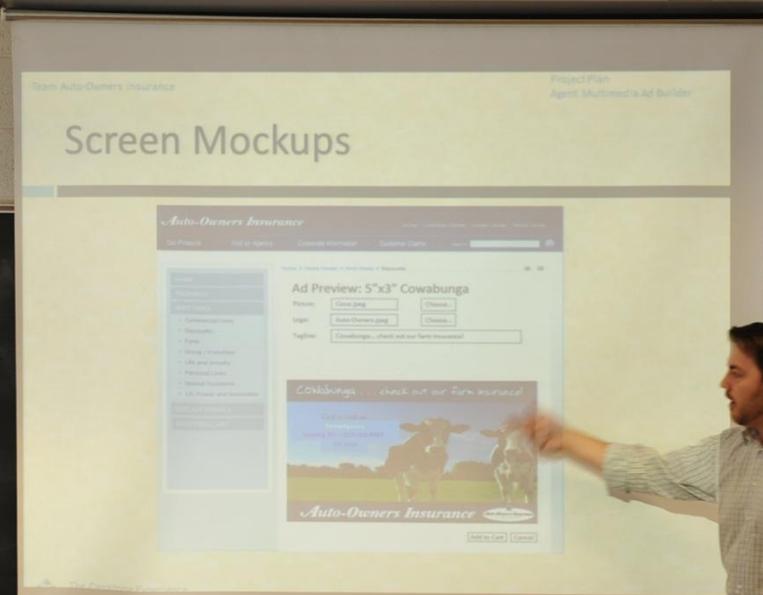
*** ATTENTION FLORIDA AGENTS:** Please add the following disclaimer to all advertisements: "Property Insurance is not available in the state of Florida from Auto-Owners Insurance."

DISCOUNTS

[Click on ad to customize for your agency.](#)

Thumbnail	Ad Title	Number
	Good Student Discount (4" x 6") [black-and-white version]	12555 (9-10)
	Fall Into Savings (4" x 6")	12557 (09-10)





Team Auto-Owners
Project Plan Presentation

Team Auto-Owners Screen Mockups

Auto-Owners Insurance Home Customer Center Career Center Media Center

Our Products Find an Agency Corporate Information Customer Claims search

Home » Media Center » Print Media » Discounts

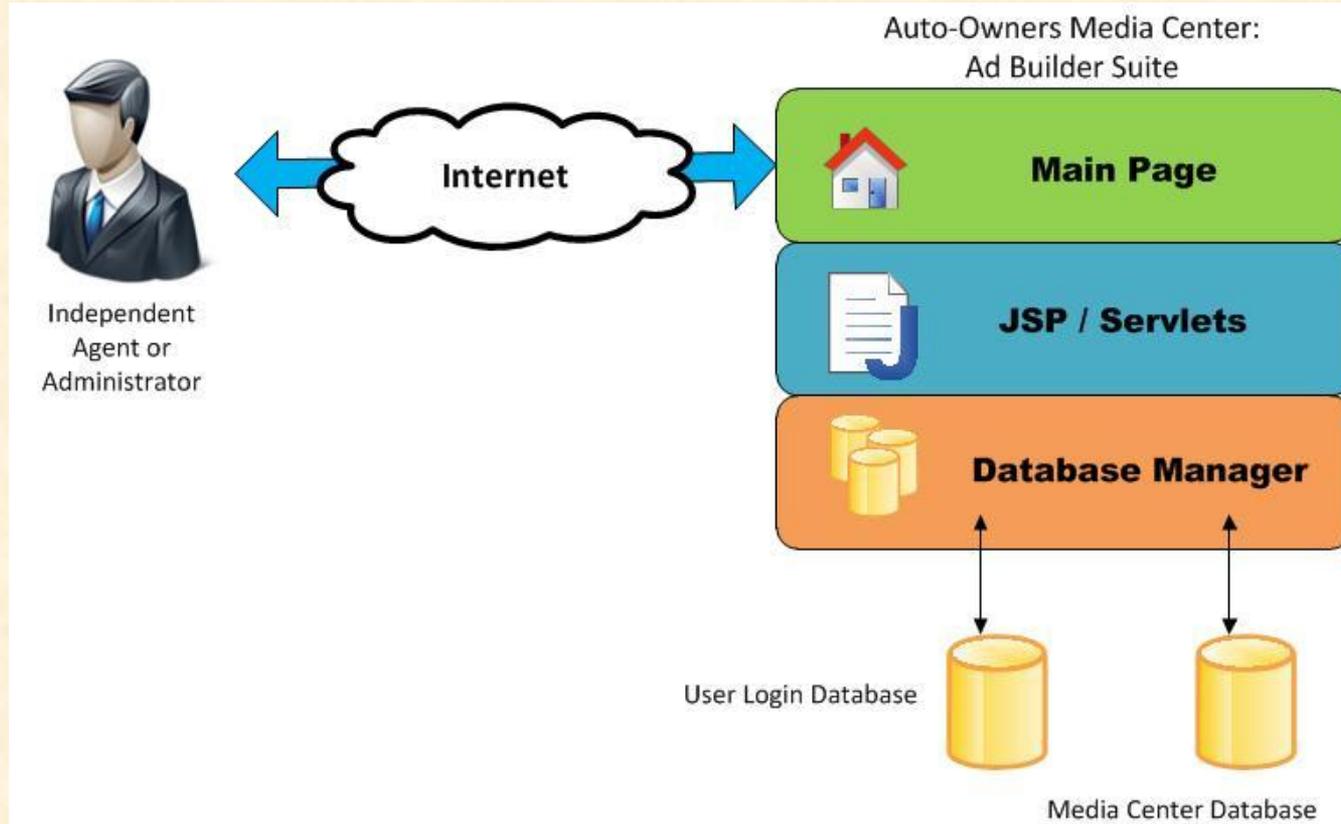
Ad Preview: 5"x3" Cowabunga

Picture:

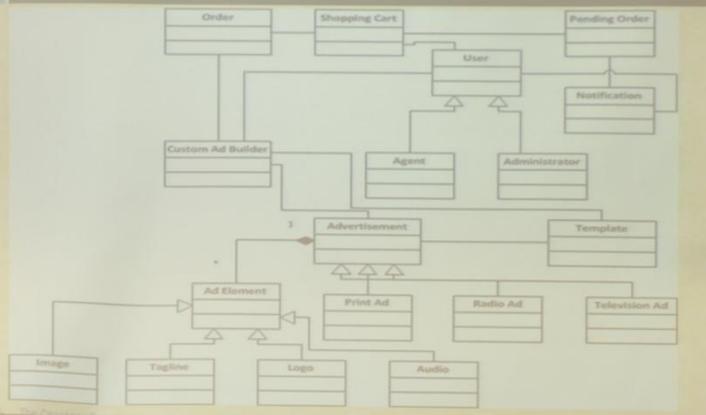
Logo:

Tagline:

Team Auto-Owners Architecture Diagram



Technical Specifications



Team Auto-Owners
Project Plan Presentation

Team Auto-Owners Alpha Presentation

Welcome Page

Auto-Owners Insurance *aoins.com* Live Online Support

agent multimedia advertisement builder Home

agent number here February 20, 111

You're now authenticated in the Auto-Owners site!

Auto-Owners advertises through a generous co-op program with our independent agents, providing them with funds to be used for advertising. To view or download our radio, television or print ads click the appropriate button below.



Contact us:  1-800-346-0346 

[Home](#) | [Live Online Support](#) | [Terms of Use and Privacy Policy](#) | [Feedback & Comments](#)



Team Auto-Owners Alpha Presentation

Custom Print Ad Generation

Headline . . .

Copy.....
.....
.....
.....

Call or visit us

Spartan Insurance

East Lansing • 517-955-6543

spartan@insurance.com



Auto-Owners Insurance



The Capstone Experience





Team Auto-Owners
Alpha Presentation

Team Auto-Owners Beta Presentation

Review Print Ad

Auto-Owners Approved Advertisements Custom Advertisement

Final Review

Carefully review your advertisement. To make changes, return to the previous page by clicking the Back button.
If you are satisfied with the ad below, click Add To Cart. You will be redirected to your shopping cart to complete your order.

<< Back
Add To Cart

You're never too old ...

To save money! Ask about retirement association member discounts for your home and auto.

Wolverine Insurance
Ann Arbor • 666-666-6666
joe.korolewicz@gmail.com



Auto-Owners Insurance 

Life Home Car Business

The Capstone Experience





Team Auto-Owners
Beta Presentation

Team Auto-Owners Beta Presentation

Administrator Approval

Auto-Owners Insurance aoins.com
agent multimedia advertisement builder

Live Online Support
Home

Order Approval

Order Number	Date Added	Agency	Ad Type	Ad Name		
200	4/1/11	Spartan Insurance	Radio	AOI0003JDA-T.mp3	<input type="button" value="Approve"/>	<input type="button" value="Reject"/>
204	4/1/11	Spartan Insurance	Television	AOI_Reason.mp4	<input type="button" value="Approve"/>	<input type="button" value="Reject"/>
203	4/1/11	Spartan Insurance	Radio	AOI0003JDA-T.mp3	<input type="button" value="Approve"/>	<input type="button" value="Reject"/>
201	4/1/11	Spartan Insurance	Print	Never too old...	<input type="button" value="Approve"/>	<input type="button" value="Reject"/>

[Logout](#)
Contact us: 1-800-346-0346
[Home](#) | [Live Online Support](#) | [Terms of Use and Privacy Policy](#) | [Feedback & Comments](#)



Order Number	Date Added	Agency	Ad Type	Ad Name	Actions
541	4/12/11	Spokane Insurance	Print	COO/Insurance	Approve Reject
551	4/12/11	Spokane Insurance	Print	3-044 Insurance	Approve Reject
402	4/12/11	Wellstone Insurance	Print	4-11111 Insurance	Approve Reject



Team Auto-Owners
Beta Presentation



Auto-Owners Insurance Agent Michaelia & Co.

Auto-Owners Insurance is a leading provider of auto insurance in Michigan. Our agents are committed to providing exceptional service to our policyholders. We offer a variety of insurance products, including auto, home, and life insurance. Our agents are trained to help you understand your options and find the best coverage for your needs. We are proud to be a part of the Auto-Owners family and to serve the people of Michigan.



Michigan State University
Team Members (left to right)

Team Auto-Owners
Design Day

MICHIGAN STATE

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The Capstone Experience

Team Boeing

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



BOEING



[Select Country/Language](#)

BA stock price 55.21 [+ 0.07] at 4:14 PM ET on Dec 29

[Products](#) | [Business Units/Services](#)

[About Us](#) | [News](#) | [Investor Relations](#)

[Merchandise](#) | [Multimedia](#)

Global Search

Quick Links:

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



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

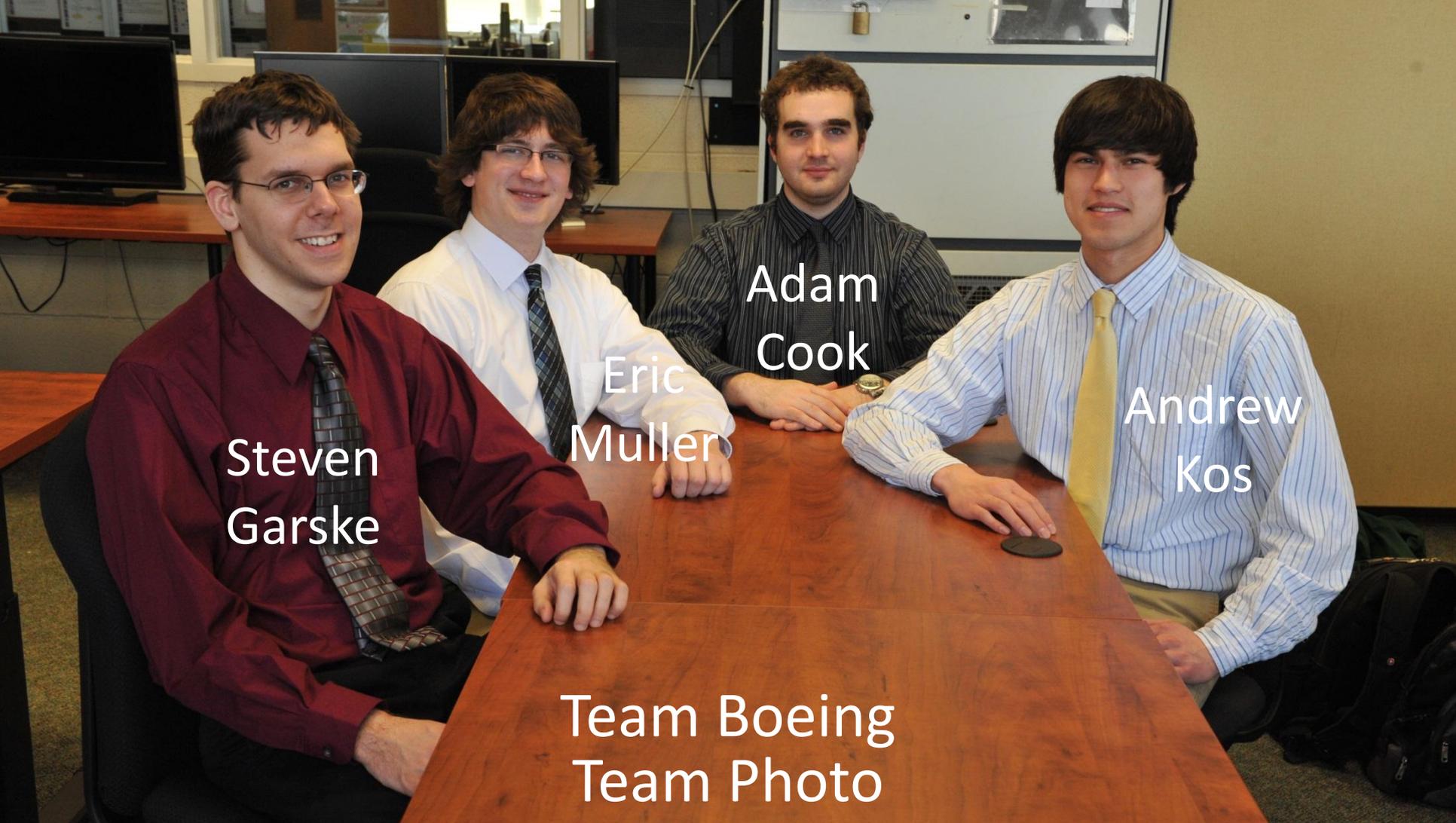
Boeing Delivers Four Next-Generation 737-900ERs to Lion Air

Team Boeing Project Overview

BAPS: Battle Aircraft Position Share

- 3D Game
 - Two Teams
 - Destroy Targets of Opposing Team
 - Use Aircraft with Various Capabilities
- Features
 - Similar to Chess and Battleship
 - Variety of Targets, Radars, and Weapons
 - Weather
 - Network-Based with Encryption
- Technologies
 - C++ and Python
 - OpenSceneGraph (OSG)
 - Blender (3D Modeling)
 - Internetworking
 - Windows XP, Windows 7





Steven
Garske

Eric
Muller

Adam
Cook

Andrew
Kos

Team Boeing
Team Photo

Team Boeing Screen Mockup

Transmitters
Trans1 (x, y, z)
Trans2
Trans3
Trans4
Trans5
Trans6
Trans7

Receivers
Rec1 (x, y, z)
Rec2
Rec3
Rec4
Rec5
Rec6
Rec7

Scan

Move

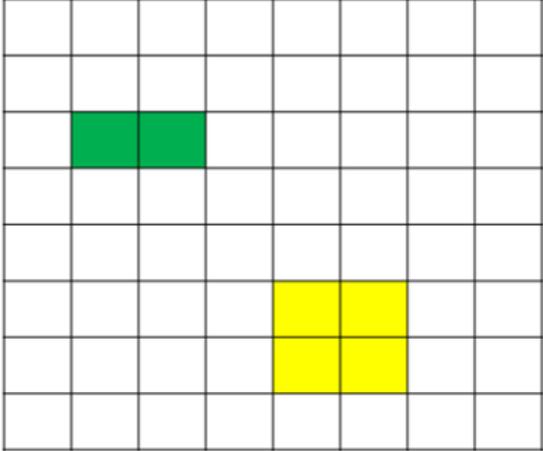
Fire

Elapsed Game Time
Game Time Remaining
Turn
Turn Time Remaining
Total Targets Hit
Your Targets Hit
Opponent Timeout Remaining
Your Timeout Remaining

Z-Level



Copyright © 2011 The Boeing Company
Image steward: Team MSU Boeing BAPS Spring 2011
All rights reserved



X

Y

Log Terminal

Transmitter	Target	Receiver

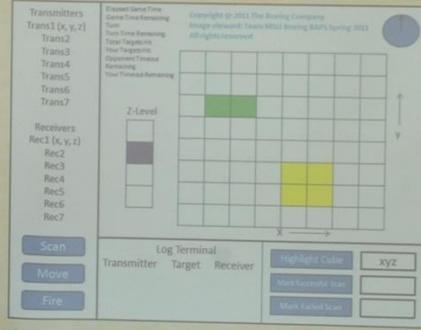
Highlight Cube

Mark Successful Scan

Mark Failed Scan



Screen Mockups



Team Boeing
Project Plan Presentation

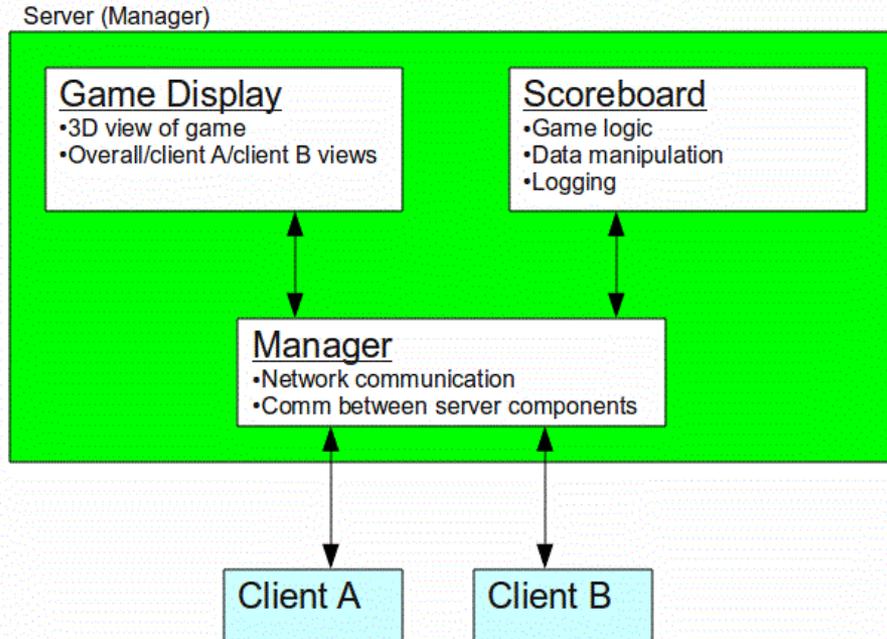
Team Boeing Screen Mockup

<p>Player 1</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto;"> <p>P1 X+R P1 Hits on P2 P2 Targets P1 Scan Guesses</p> </div>	<p><u>Activity Log</u> Hit Guess: x,y,z (Fail/Succeed) Scan Guess: x,y,z (Fail/Succeed) Xmtr Nav Cmd Rcvr Nav Cmd Checked In Checked In Confirmed Target T1 Pos: x,y,z Timeout Request Updated Timeout Positions</p>																																										
<p>Player 2</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 10px auto;"> <p>P2 X+R P2 Hits on P1 P1 Targets P2 Scan Guesses</p> </div>	<p><u>Activity Log</u> Hit Guess: x,y,z (Fail/Succeed) Scan Guess: x,y,z (Fail/Succeed) Xmtr Nav Cmd Rcvr Nav Cmd Checked In Checked In Confirmed Target T2 Pos: x,y,z Timeout Request Updated Timeout Positions</p>																																										
<table border="0"> <thead> <tr> <th></th> <th><u>Player 1</u></th> <th><u>Player 2</u></th> </tr> </thead> <tbody> <tr> <td>Total Components Hit</td> <td></td> <td></td> </tr> <tr> <td>T.1</td> <td>0/1</td> <td>0/1</td> </tr> <tr> <td>T.2</td> <td>1/2</td> <td>1/2</td> </tr> <tr> <td>T.3</td> <td>0/3</td> <td>0/3</td> </tr> <tr> <td>T.4</td> <td>3/4</td> <td>1/4</td> </tr> <tr> <td># Turns Taken</td> <td>8</td> <td>8</td> </tr> <tr> <td>Current Turn</td> <td>P1</td> <td>P1</td> </tr> <tr> <td>Current Time Remaining</td> <td>10:23</td> <td>10:23</td> </tr> <tr> <td># Scan Attempts</td> <td>23</td> <td>30</td> </tr> <tr> <td>% Scan Success</td> <td>45%</td> <td>65%</td> </tr> <tr> <td># Hit Attempts</td> <td>8</td> <td>8</td> </tr> <tr> <td>% Hit Success</td> <td>25%</td> <td>50%</td> </tr> <tr> <td>Timeout Remaining</td> <td>2</td> <td>2</td> </tr> </tbody> </table>		<u>Player 1</u>	<u>Player 2</u>	Total Components Hit			T.1	0/1	0/1	T.2	1/2	1/2	T.3	0/3	0/3	T.4	3/4	1/4	# Turns Taken	8	8	Current Turn	P1	P1	Current Time Remaining	10:23	10:23	# Scan Attempts	23	30	% Scan Success	45%	65%	# Hit Attempts	8	8	% Hit Success	25%	50%	Timeout Remaining	2	2	<p>Copyright @ 2011 The Boeing Company</p> <p>Image steward: Team MSU Boeing BAPS Spring 2011</p> <p>All rights reserved</p>
	<u>Player 1</u>	<u>Player 2</u>																																									
Total Components Hit																																											
T.1	0/1	0/1																																									
T.2	1/2	1/2																																									
T.3	0/3	0/3																																									
T.4	3/4	1/4																																									
# Turns Taken	8	8																																									
Current Turn	P1	P1																																									
Current Time Remaining	10:23	10:23																																									
# Scan Attempts	23	30																																									
% Scan Success	45%	65%																																									
# Hit Attempts	8	8																																									
% Hit Success	25%	50%																																									
Timeout Remaining	2	2																																									



Team Boeing Architecture Diagram

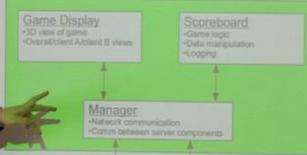
Server Structure and Basic Communication



System Architecture

Server Structure and Basic Communication

Server (Manager)



The Capstone Experience

Team Boeing Project Plan

Team Boeing
Project Plan Presentation

Team Boeing Alpha Presentation

Player Transmitters

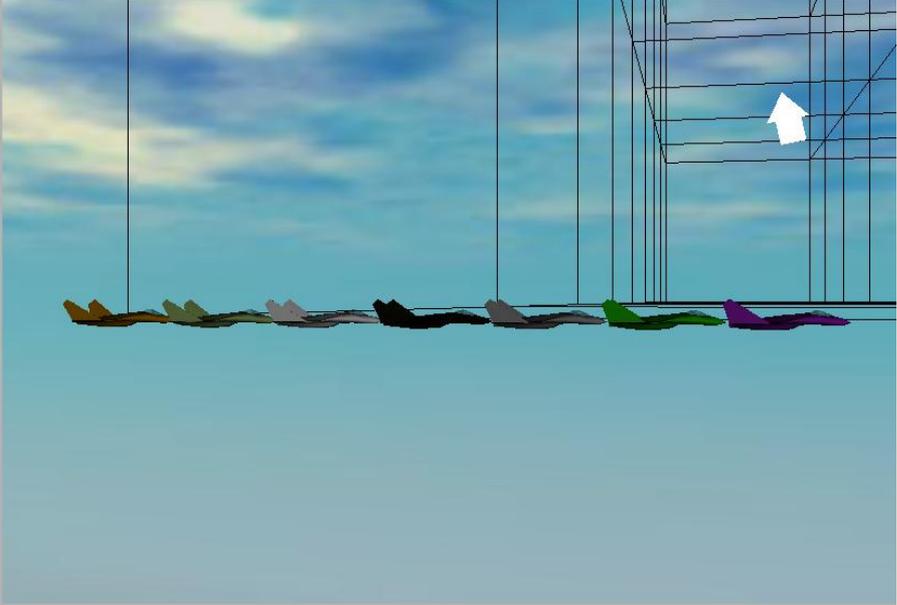
Transmitters

- Human
- Eagle
- Cow
- Lion
- Reflector
- PoolShot
- BounceToYou

Receivers

- Amplifier
- Echo
- PoolBoard
- Geo
- Listener
- IHeardYou
- ISawYou

Game Time: 2:47 17:12 Turn Time Left: 0 Targets Hit: 1 Hits Taken: 1 Enemy Time Outs: 1 Time Outs Left: 1



TIME OUT

SCAN

MOVE

FIRE

Highlight Cube [X, Y, Z]

Mark Scan Success [X, Y, Z]

Mark Scan Failure [X, Y, Z]





Team Boeing Alpha Presentation

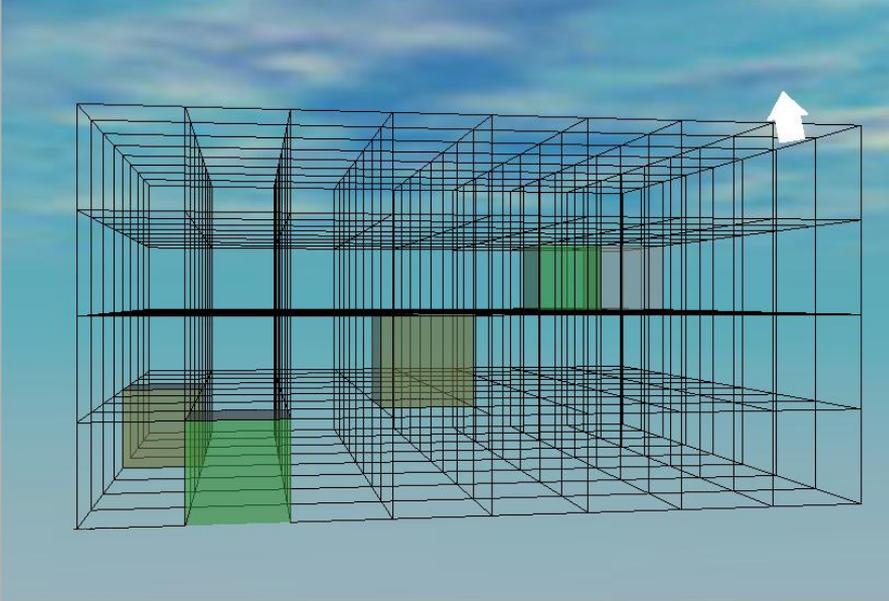
Team Boeing Alpha Presentation

Game Board Highlighting

Transmitters
Human
Eagle
Cow
Lion
Reflector
PoolShot
BounceToYou

Receivers
Amplifier
Echo
PoolBoard
Geo
Listener
IHeardYou
ISawYou

Game Time: 31 / 19:28 Turn Time Left: 0 Targets Hit: 1 Hits Taken: 1 Enemy Time Outs: 1 Time Outs Left: 1



TIME OUT

SCAN

MOVE

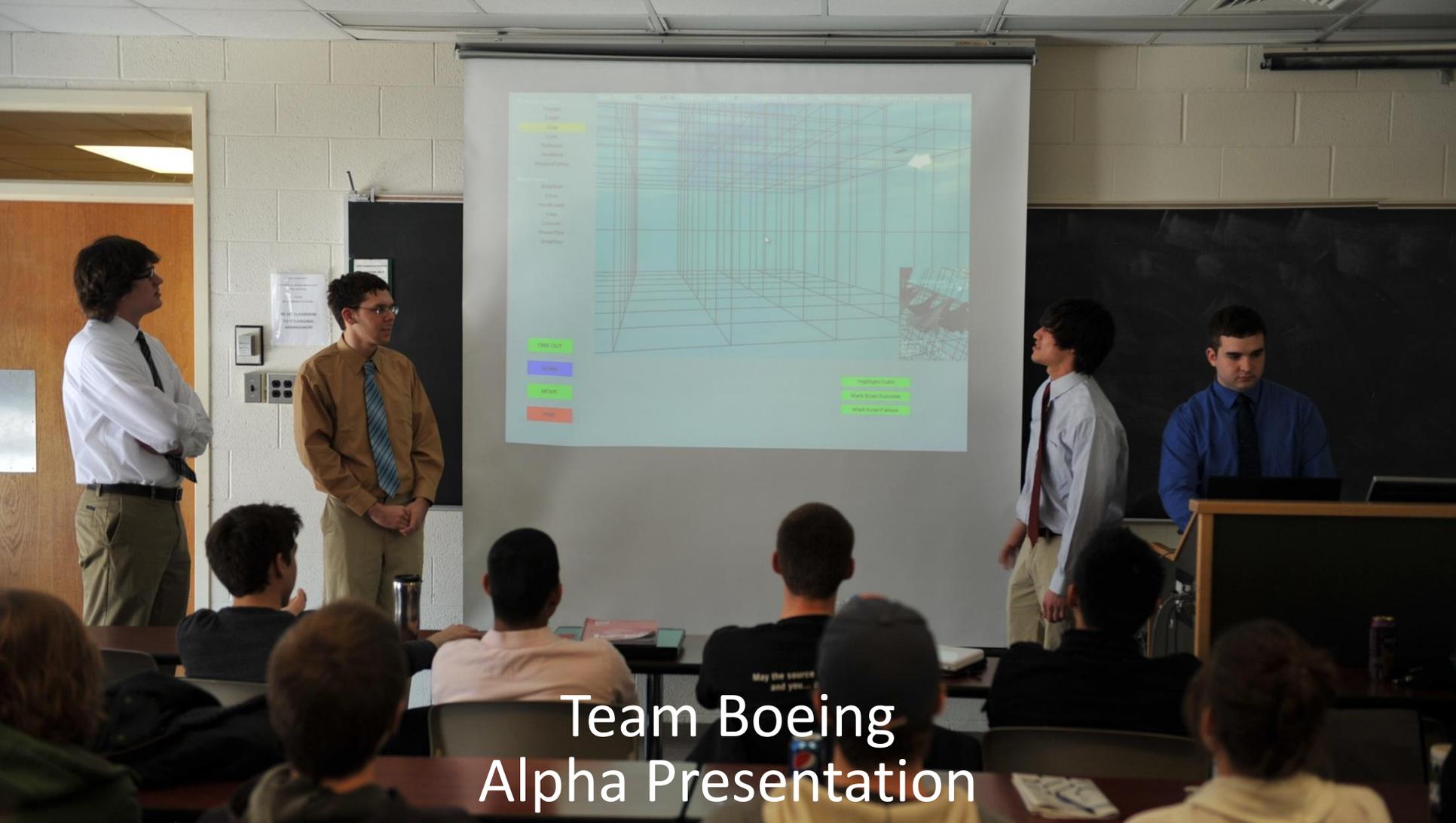
FIRE

Highlight Cube

Mark Scan Success

Mark Scan Failure





Team Boeing Alpha Presentation

Team Boeing Beta Presentation

Highlight Window

Boeing Battle Aircraft Position Share (BAPS)

ENEMY TURN

Game Left: 00:01:24
Game Time: 00:03:36
Turn Left: 00:00:04
Timeout Left: 00:00:00
Turn: 0
Targets Hit: 0
Hits Taken: 0
Enemy Timeouts: 0
Timeouts Left: 10

Transmitters
Receivers

SHOW MARKERS: ON
SHOW PLATFORMS: ON
SHOW RECEIVERS: ON
SHOW TRANSMITTERS: ON

TIMEOUT
UNIT PLACE
HIGHLIGHT
SCAN
MOVE
FIRE

Scan Highlight
target (3,3,3)

MISS HIT CLEAR

00:01:35] Your turn is over
00:01:50] Begin your turn
00:02:05] Your turn is over
00:02:20] Begin your turn
00:02:25] Firing
00:02:25] [FIRE HIT]
00:02:25] Your turn is over
00:02:39] Begin your turn
00:02:54] Your turn is over
00:03:09] Begin your turn
00:03:24] Your turn is over



Team Boeing Beta Presentation

To give less than your best
is to sacrifice the job.

Team Boeing Beta Presentation

Player Hit

Boeing Battle Aircraft Position Share (BAPS)

YOUR TURN

Game Left: 00:03:14
Game Time: 00:01:46
Turn Left: 00:00:04
Timeout Left: 00:00:00
Turn: 0
Targets Hit: 0
Hits Taken: 0
Enemy Timeouts: 0
Timeouts Left: 10

Transmitters
Receivers

SHOW MARKERS: ON
SHOW PLATFORMS: ON
SHOW RECEIVERS: ON
SHOW TRANSMITTERS: ON

TIMEOUT
UNIT PLACE
HIGHLIGHT
SCAN
SHOWS
FIRE

[00:00:14] Begin your turn
[00:00:29] Your turn is over
[00:00:45] Begin your turn
[00:00:56] Firing
[00:00:56] [FIRE MISS] Coords here
[00:00:56] Your turn is over
[00:01:06] [TARGET HIT] You have been hit by Player02
[00:01:06] Begin your turn
[00:01:20] Your turn is over
[00:01:35] Begin your turn





Team Boeing Beta Presentation

MICHIGAN STATE

UNIVERSITY

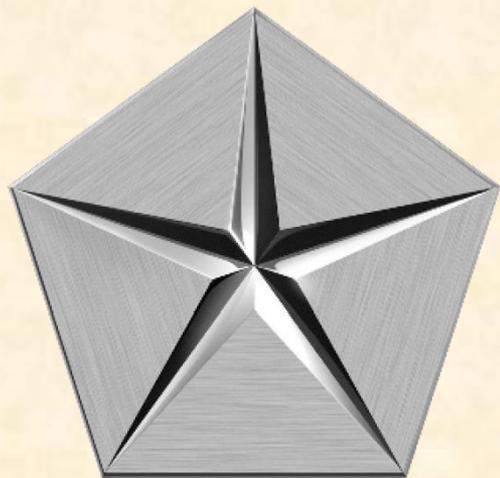
The Capstone Experience

Team Chrysler

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



CHRYSLER



Home | Chrysler Collection

Search Chrysler.com

VEHICLE LINEUP Find A Dealer ZIP Build My Own Shopping Tools For Owners

WATCH OUR TV COMMERCIALS



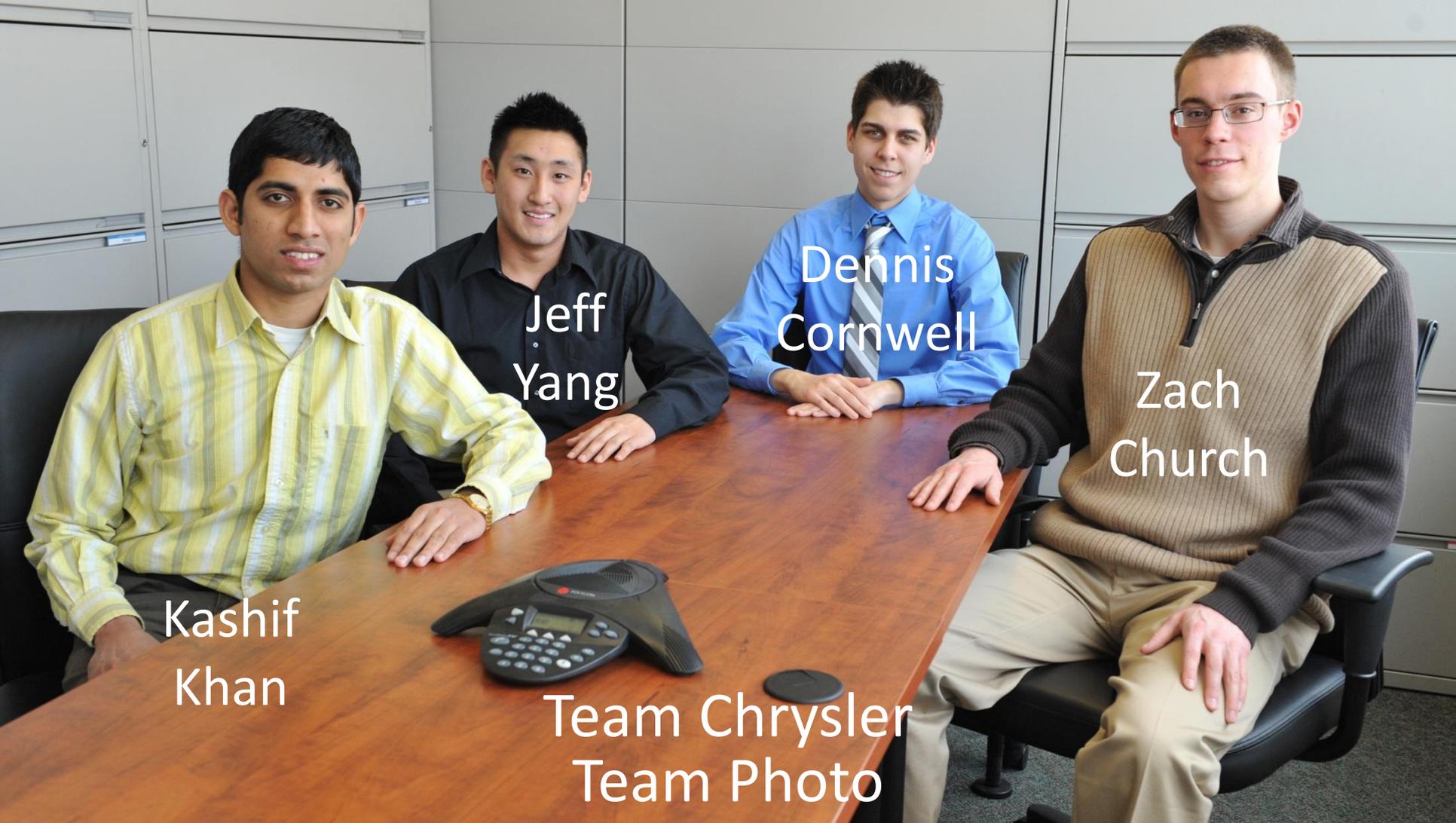
STYLE BOOSTER
MEET THE NEW CHRYSLER 300S

Team Chrysler Project Overview

Fleet Auction Distribution and Sale Optimizer

- Fleet
 - Vehicles
 - Group of Vehicles Cars, Trucks, Etc.
 - Owned by Company, Dealers, or Daily Rental Companies
 - Marshaling Yards
 - Returned Fleet Vehicles
 - Assigned to Auction by Chrysler
- Optimize Fleet Auction Sales Net Revenue
 - Distribute Vehicles Geographically
 - Maximize Net Sales Revenue Based On
 - Current Vehicle Location
 - Historical Sales Data
 - Transportation Costs
- Features
 - Web Application
 - Form and Map Interface
 - Drag-and-Drop Vehicle from Site to Site
 - Revenue Models and Forecast Reports
- Technologies
 - Java (or JavaScript)
 - SQL (Database Structured Query Language)
 - Google Maps





Kashif
Khan

Jeff
Yang

Dennis
Cornwell

Zach
Church

Team Chrysler
Team Photo

Team Chrysler Screen Mockup

Current Stats

Detroit -> Orlando

Kansas City -> Atlanta

Create Custom...

Suggested Changes

Sort by (\$, make, model...)

- 2009 Dodge Avenger (+\$800)
- 2010 Dodge Charger (+\$600)
- 2003 Chrysler T&C (+\$300)

Summary

Transportation Details

KC Auction
Base estimate: \$27,000
Mileage(16.5 k): -\$200
Regional/Seasonal: \$700

Total: \$26,100

Atlanta Auction:
Base estimate: \$27,000
Mileage(16.5 k): -\$200
Regional/Seasonal: \$0
Transportation: -\$100

Total: \$27,700

Difference: +\$600

Accept or reject suggestion

Screen Mockups

Actions

Market Area (State)
List Location of Storage

Search and Country
Average

Jeep Liberty

- 2010 Jeep Liberty
- 2011 Jeep Liberty
- 2012 Jeep Liberty
- 2013 Jeep Liberty
- 2014 Jeep Liberty
- 2015 Jeep Liberty
- 2016 Jeep Liberty
- 2017 Jeep Liberty

Jeep Cherokee
Chrysler 300
Dodge Challenger
Dodge Ram

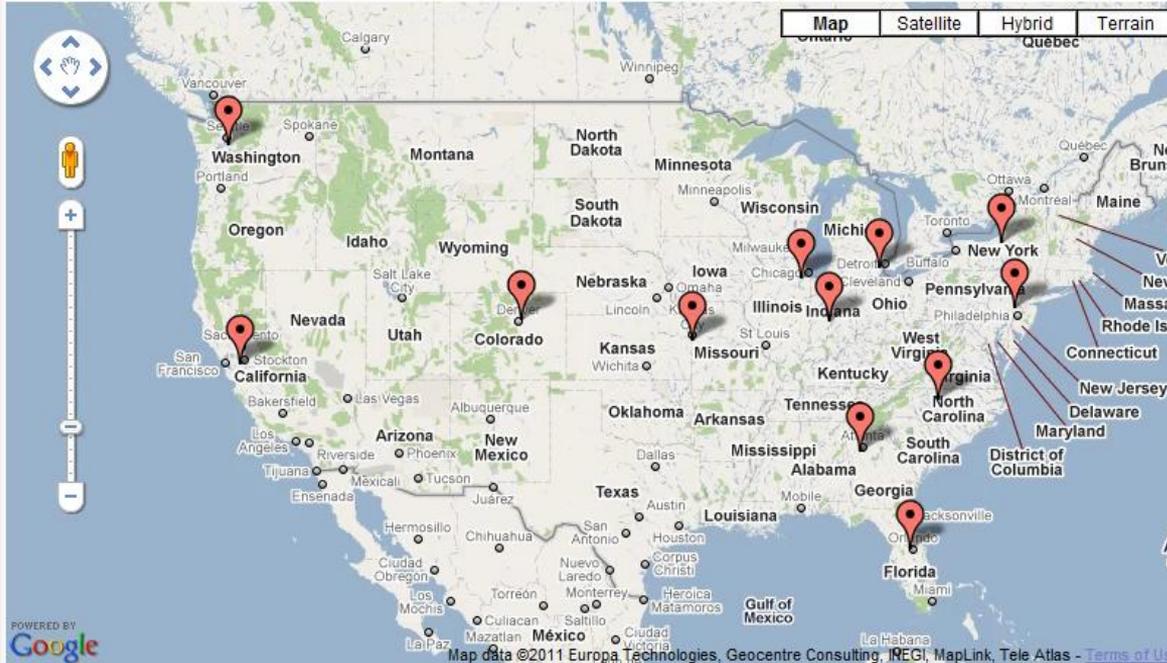
The Customer Experience

Team <Company Name> Project Plan

Team Chrysler
Project Plan Presentation

Team Chrysler Screen Mockup

Auctions



Manheim Arena Illinois Auto Auction (Chicago)

Town and Country

- Model Details
- Sold: 14
- Sold/Offered: 83.3%
- Avg Miles: 21,182
- Avg Gross: \$20,032
- Avg Wholesale: \$34,975
- Gross/Invoice: 57.3%
- MASP/Invoice: 57.5%
- Floor (+/-): -0.3%

Avenger

Jeep Liberty

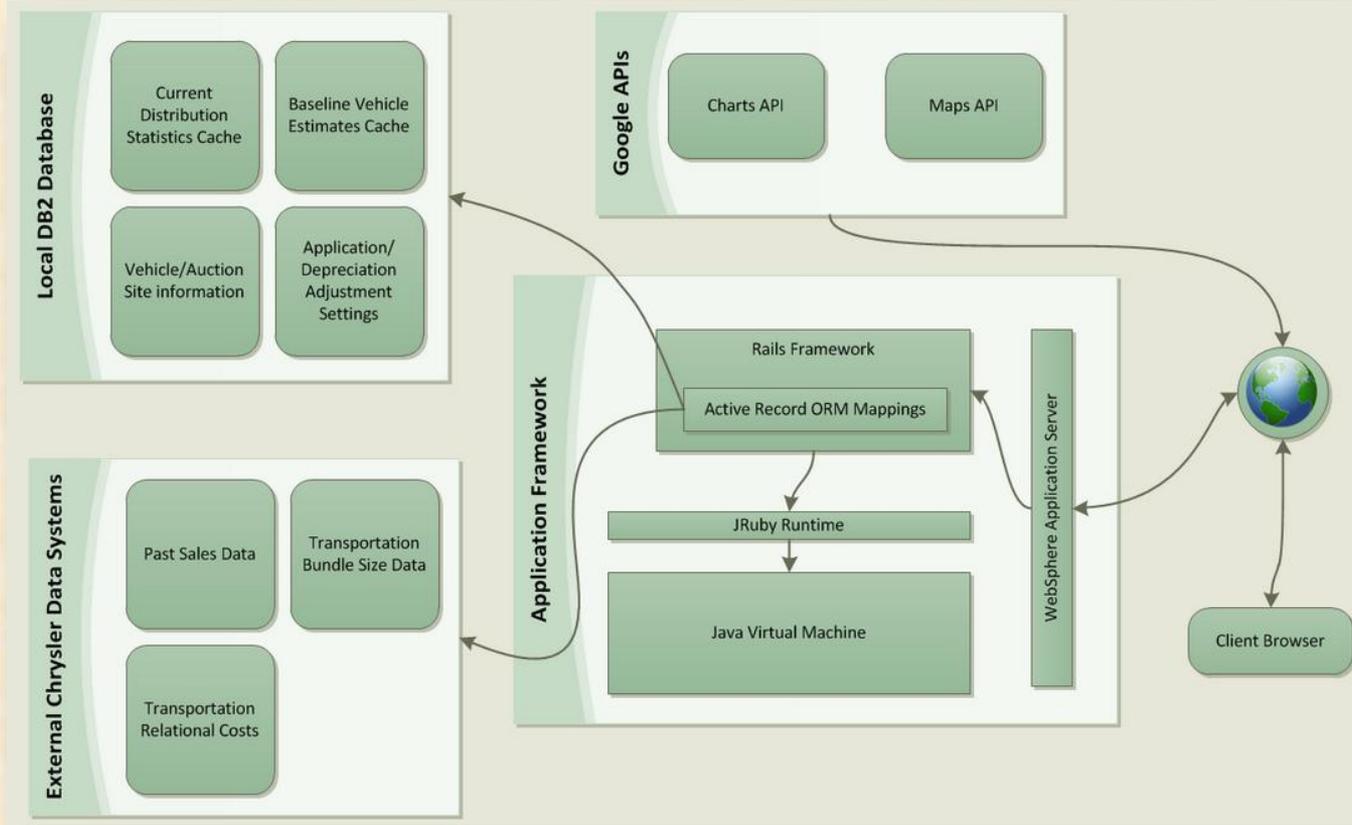
Jeep Cherokee

Chrysler 300

Dodge Challenger

Dodge Ram

Team Chrysler Architecture Diagram



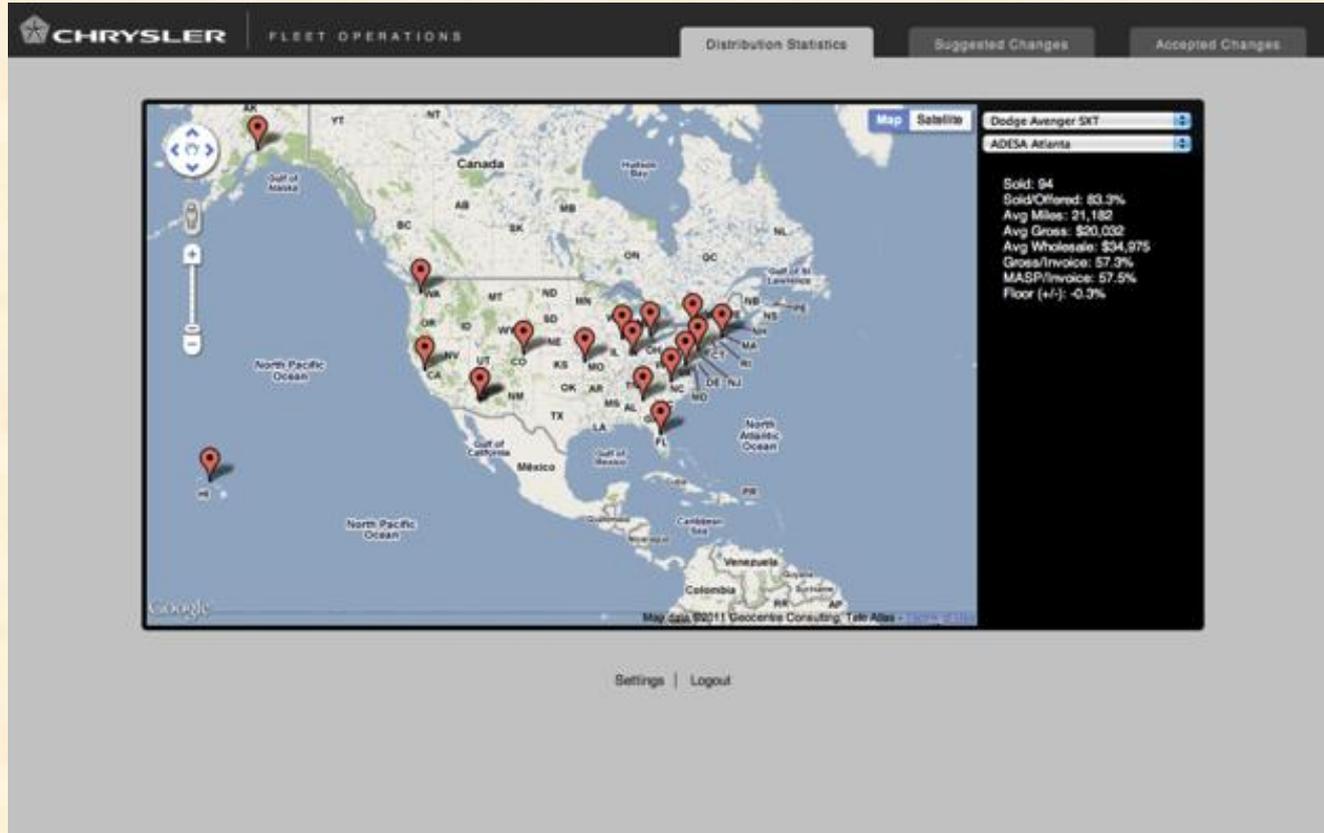
System Architecture



Team Chrysler
Project Plan Presentation

Team Chrysler Alpha Presentation

Distribution Statistics





Team Chrysler
Alpha Presentation

Team Chrysler Alpha Presentation

Suggested Changes

The screenshot displays the Chrysler Fleet Operations interface. At the top, there are navigation tabs for "Distribution Statistics", "Suggested Changes", and "Accepted Changes". The "Suggested Changes" tab is active. On the left, a sidebar lists various locations, with "ADESA Atlanta" and "Dodge Avenger SXT (1000)" selected. The main content area shows a list of vehicles with their model years and prices. A tooltip highlights the "1994 Dodge Avenger SXT (-\$2,530)". On the right, a summary box indicates "3 vehicles via rail (\$2400) Arriving 2011-02-28" and lists specific vehicle details. A "New Bundle" section is also visible.

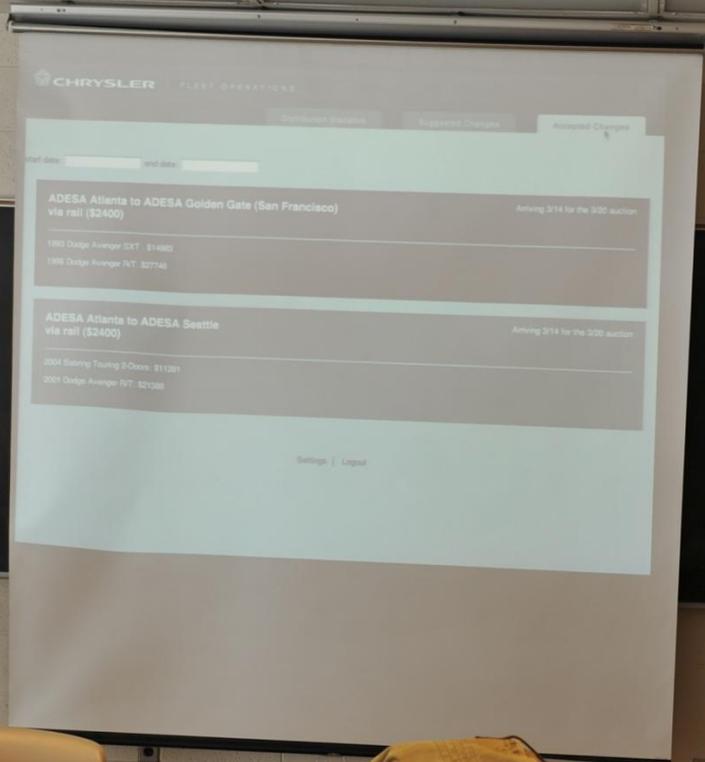
Location	Vehicle Model	Price
ADESA Atlanta	1990 Dodge Avenger SXT	-\$14,673
ADESA Atlanta	1995 Dodge Avenger SXT	-\$609
ADESA Atlanta	1991 Dodge Avenger SXT	-\$2,485
ADESA Atlanta	1994 Dodge Avenger SXT	-\$2,530
ADESA Atlanta	1992 Dodge Avenger SXT	-\$8,523
ADESA Atlanta	2009 Dodge Avenger SXT	-\$8,550
ADESA Atlanta	2000 Dodge Avenger SXT	(\$15,726)
ADESA Atlanta	2005 Dodge Avenger R/T	-\$415
ADESA Atlanta	2004 Dodge Avenger R/T	-\$349
ADESA Atlanta	1999 Dodge Avenger R/T	-\$1,666
ADESA Atlanta	1990 Dodge Avenger R/T	(\$6,634)
ADESA Atlanta	2001 Dodge Avenger R/T	(\$3,639)
ADESA Atlanta	2001 Dodge Avenger R/T	(\$1,902)

Summary: 3 vehicles via rail (\$2400) Arriving 2011-02-28

- 1990 Dodge Avenger SXT (\$2,857)
- 1993 Dodge Avenger SXT (\$5,589)
- 1994 Dodge Avenger SXT (-\$2,530)
- Dodge Charger (\$1,563)

New Bundle





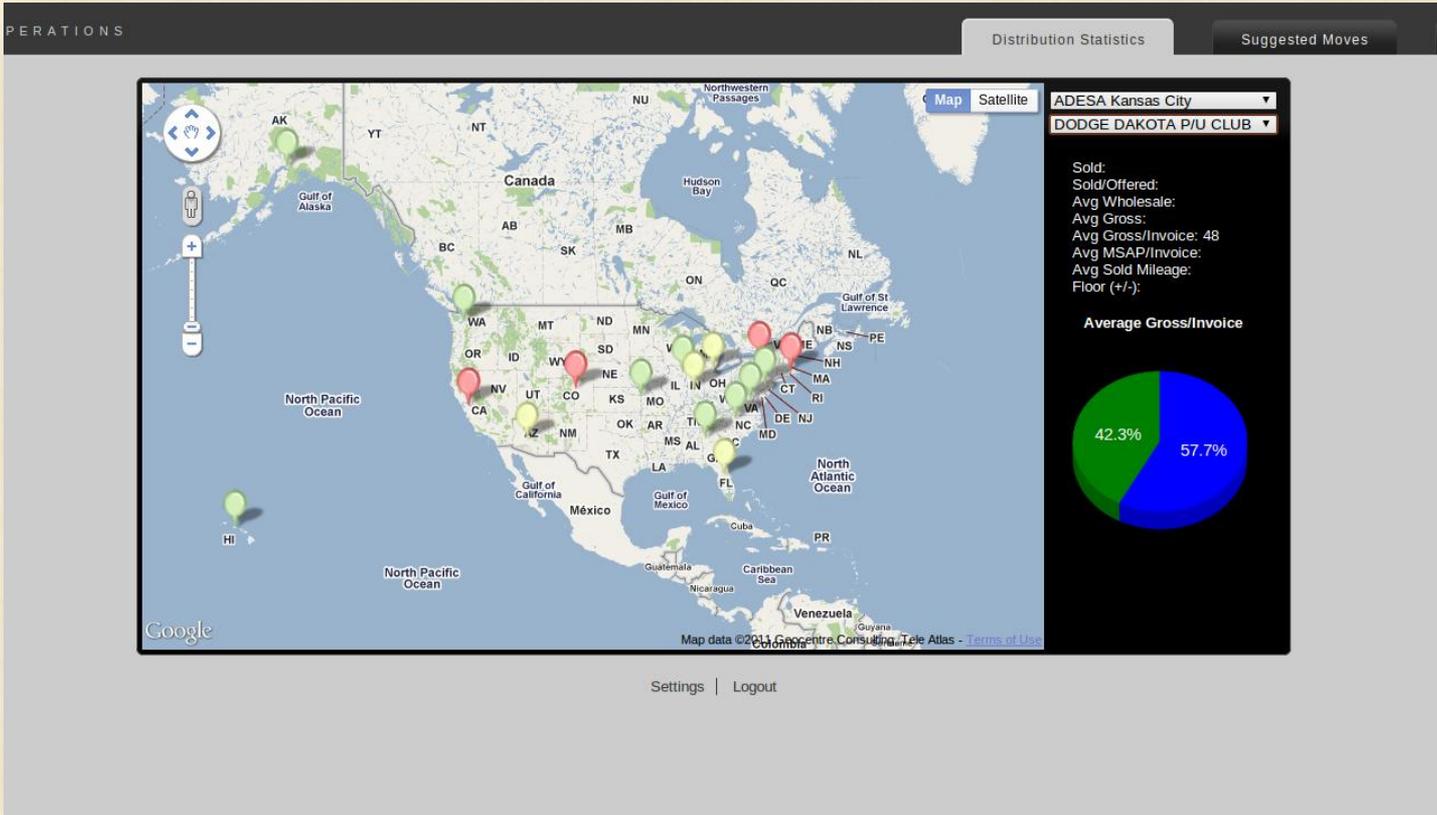
Cover Covered
Due to
Weather

Team Chrysler Alpha Presentation



Team Chrysler Beta Presentation

Current Distribution Statistics





Team Chrysler
Beta Presentation

Team Chrysler Beta Presentation

Suggested Transports/Bundles

OPERATIONS

Distribution Statistics

Suggested Moves

ADESA Atlanta
0 vehicles to be assigned

ADESA Golden Gate (San Francisco)
0 vehicles to be assigned

**ADESA Indianapolis
13 vehicles to be assigned**

ADESA Kansas City
0 vehicles to be assigned

ADESA Seattle
0 vehicles to be assigned

ADESA Syracuse
0 vehicles to be assigned

Dealers Auto Auction of Alaska
0 vehicles to be assigned

Greensboro
0 vehicles to be assigned

Manheim Arena Illinois (Chicago)
0 vehicles to be assigned

Manheim Denver

2001 DODGE DAKOTA ...
7,008 miles

1999 CHRYSLER SEBR...
12,840 miles

2009 DODGE DAKOTA ...
21,948 miles

1999 CHRYSLER TOWN...
16,310 miles

2007 DODGE GRAND C...
14,150 miles

2000 DODGE GRAND C...
11,097 miles

2006 CHRYSLER 300C...
20,172 miles

2009 DODGE AVENGER...
19,950 miles

2007 DODGE CALIBER...
20,412 miles

2001 CHRYSLER SEBR...

Staying Local
can accept 13, G/I: 40%

ADESA Atlanta
can accept 12, G/I: 64%
0 of 0 bundles with room

ADESA Golden Gate (San Francisco)
can accept 4, G/I: 56%
0 of 0 bundles with room

ADESA Kansas City
can accept -1, G/I: 70%
0 of 0 bundles with room

ADESA Seattle
can accept 1, G/I: 51%
0 of 0 bundles with room

ADESA Syracuse
can accept -5, G/I: 65%
0 of 0 bundles with room

Dealers Auto Auction of Alaska
can accept 5, G/I: 61%
0 of 0 bundles with room

Greensboro
0 of 0 bundles with room

Staying local

2005 CHRYSLER 300C...
3,607 miles

2008 CHRYSLER 300C...
21,590 miles

2001 DODGE DAKOTA ...
10,573 miles

2009 CHRYSLER 300 ...
10,359 miles

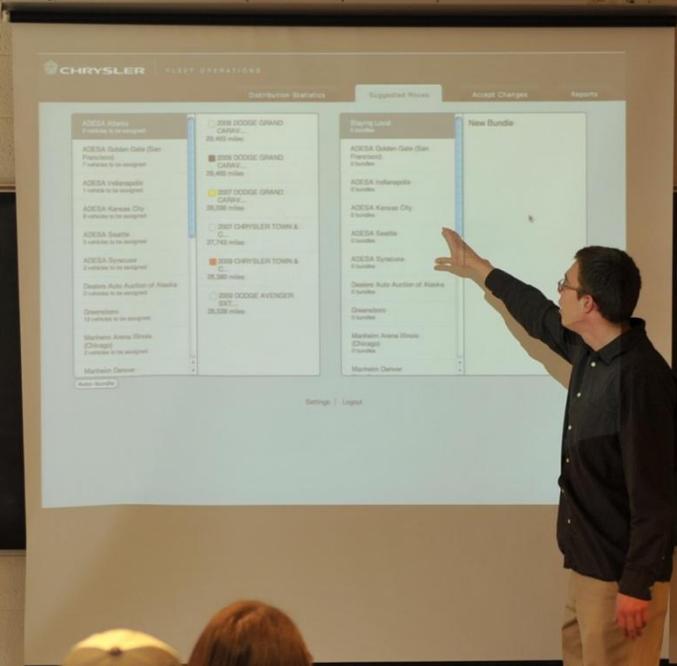
New Bundle

Auto-bundle

Settings | Logout

2007 DODGE CALIBER R/T FWD FOUR-DOOR HATCHBACK





Team Chrysler Beta Presentation

Chrysler Group, LLC Fleet Auction Distribution and Sale Optimizer

Chrysler Group, LLC fleet customers return vehicles to auctioning yards in various locations throughout the nation. The objective is to distribute each vehicle to the auction that will sell it at the highest price.

The Chrysler distribution manager will be using our application to determine the optimal auction location around the country to send and subsequently sell the returned vehicle. These are complex auction sites to consider, and a vehicle may sell for a different price at each, depending on the local dealer demand for that type of vehicle.

Our application automates the process of predicting approximately how much a vehicle will sell for at each auction and allows which auction has the highest demand for a specific vehicle based on past sales and inventory data. The system allows the manager to target a specific vehicle body model and automatically distribute vehicles throughout the country.

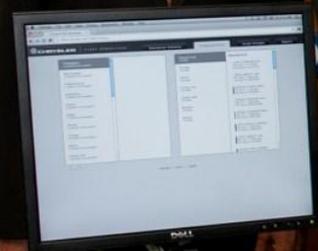
In the screenshot shown to the right, the distribution manager can view a summary of how vehicles are selling, and how the current distribution compares to the target distribution. Our system determines the optimal auction site for each vehicle. The distribution manager is then able to make adjustments to the stock of vehicles at each auction site as they deem necessary.

Our system automates most of the decision making, but also focuses on providing the distribution manager with the information required to make the best possible decisions, ensuring our customer's decisions are data-driven.



Midwestern States
Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin

All Other States
Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming



Team Chrysler Design Day

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Team Dow

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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

The image features the Dow logo, which consists of the word "DOW" in a bold, white, sans-serif font centered within a red diamond shape. The diamond is oriented horizontally. The background is a light beige color with a subtle, repeating pattern of the word "DOW" in a smaller, lighter font. At the top and bottom of the image, there are horizontal bars: a thin grey bar on the left and a wider dark green bar on the right.

DOW

®



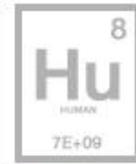
Dow helps rebuild damaged schools in earthquake ravaged China 



Dow Education Video Entered in National Contest 



Dow Announces Third Quarter Earnings 

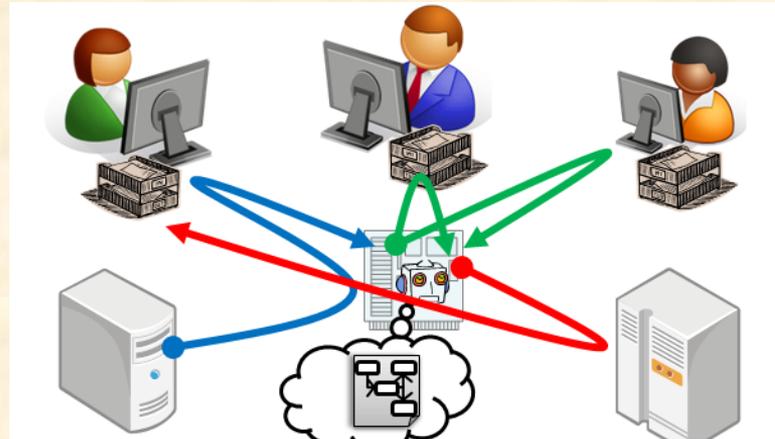


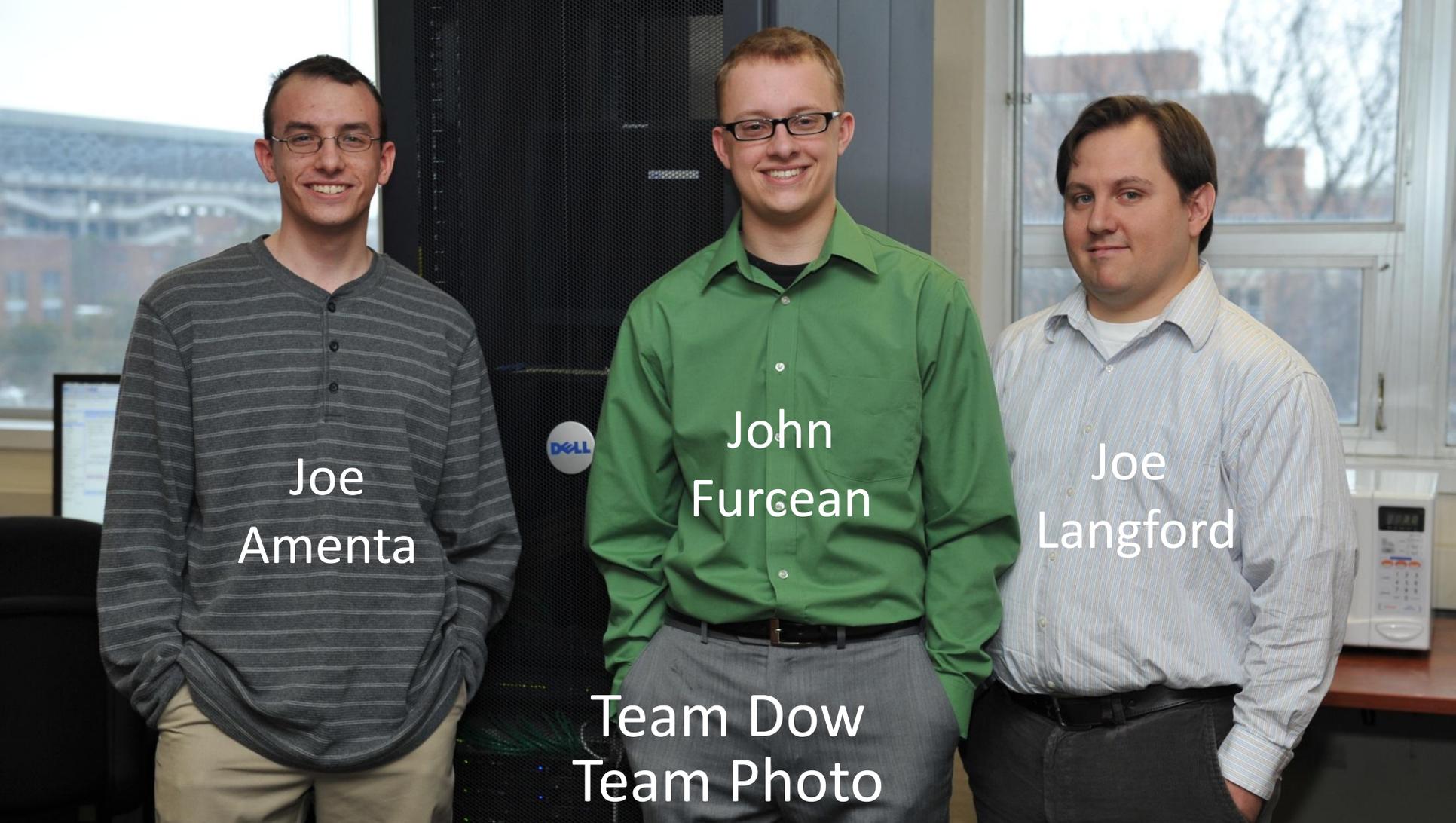
The Human Element 

Team Dow Project Overview

Business Approval System

- Business Workflow Approval
 - Sequence of Connected Steps
 - Used to Approve Business Requests
- Spending Delegation of Authority
 - Authorization to Spend Money
 - Based On
 - Requester
 - Sequence of Authorized Approvers
- Features
 - Administrative and User Interfaces
 - Device Agnostic
 - Web Browsers
 - Mobile Devices
 - Microsoft SharePoint Farm Solution
- Technologies
 - Microsoft SharePoint 2010
 - Web Application Programming
 - Blackberry (Java)
 - iPhone and iPad (Objective-C)



A photograph of three men standing in an office. They are positioned in front of a row of black server racks. The man on the left is wearing a grey and white striped long-sleeved shirt and khaki pants. The man in the middle is wearing a bright green long-sleeved button-down shirt and grey trousers. The man on the right is wearing a light blue and white striped long-sleeved shirt and dark trousers. A Dell logo is visible on the server rack behind the man in the middle. Large windows in the background show an outdoor view of a building and trees.

Joe
Amenta

John
Furcean

Joe
Langford

Team Dow
Team Photo

Team Dow Screen Mockup

Team Dow\requestor

Team Dow Site::Workflow Initiation Form::Business Approval System

Documents	Business Function	Category	Initial Approver
	Performance Systems ▼	Automotive Systems ▼	Martin Brennan ▼
Lists	Submit Request		
Discussions			
Sites			



Screen Mockups

Mobile Site

Form fields visible on the screen:

- Username
- Password
- Submit

Additional text on the screen includes "Mobile Site" and "Form Fields" at the top, and "Form Fields" and "Submit" at the bottom.

Team Dow
Project Plan Presentation

Team Dow Screen Mockup

Mobile Device

Business Approval System

[Documents](#)

[Lists](#)

[Discussions](#)

[Sites](#)

Team Dow Site::Workflow Initiation Form

Business Function

Performance Systems ▼

Category

Automotive Systems ▼

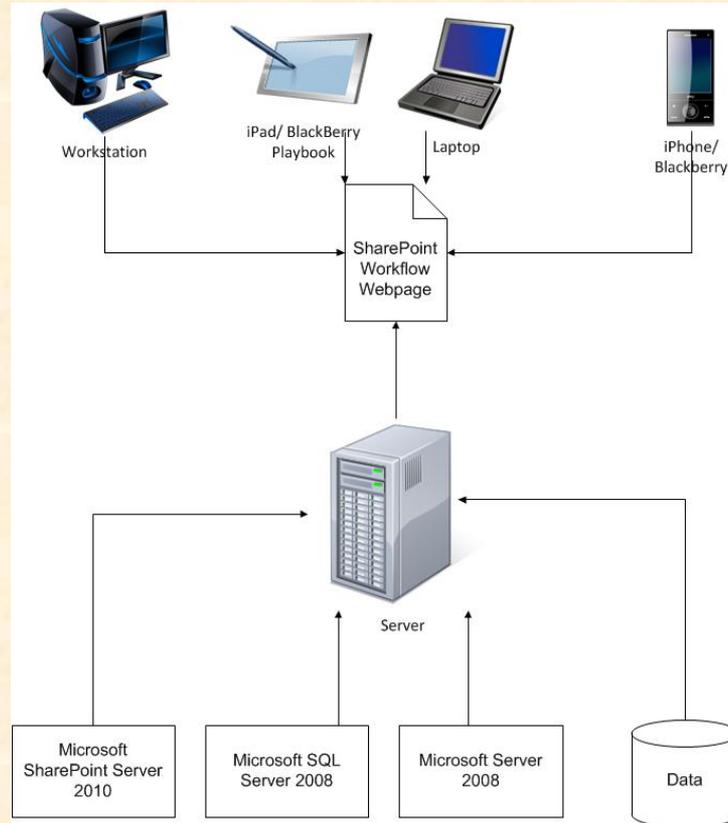
Initial Approver

Martin Brennan ▼

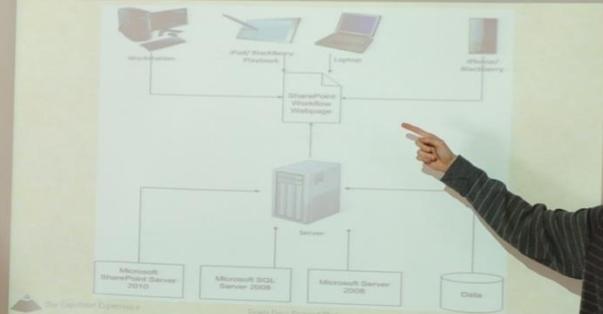
Submit



Team Dow Architecture Diagram



System Architecture



Team Dow
Project Plan Presentation

Team Dow Alpha Presentation

List of Approvers

Site Actions ▼ 📁 Browse 🔍 List Tools 👤 Joe Amenta ▼ 📄

Items 📄 List

New Item 📄 New Folder 📁 View Item 📄 Edit Item ✎ Version History 🕒 Item Permissions 🔒 Attach File 📎 Alert Me 🔔 Workflows Approve/Reject 🔄 I Like It 👍 Tags & Notes 🏷️

New 📄 Manage 🔧 Actions 🔗 Share & Track 🔄 Workflows 🏷️ Tags and Notes

Username	business1	business2	business3	orderOf
TEAMDOW-SERVER\amentajo NEW	Performance Systems	Automotive Systems		1
TEAMDOW-SERVER\dow NEW	Performance Systems	Automotive Systems		2
TEAMDOW-SERVER\langfor6 NEW	Performance Systems	Automotive Systems		3
TEAMDOW-SERVER\furceanj NEW	Performance Systems	Automotive Systems		4

[+ Add new item](#)

Libraries
Site Pages
Shared Documents
Approval Forms
Drop Off Library

Lists
Calendar
Tasks
Approvers

Discussions
Team Discussion

Recycle Bin
All Site Content



The screenshot shows a web application interface with a table of items. The table has the following columns: Username, business1, business2, business3, and orderID. The data rows are as follows:

Username	business1	business2	business3	orderID
Joe Almeida	Performance Systems	Automotive Systems		1
TEAMDOW-SERVER\jow	Performance Systems	Automotive Systems		2
Joe Almeida	MSU	Engineering	Capstone	3
TEAMDOW-SERVER\jow	MSU	Engineering	Capstone	3
TEAMDOW-SERVER\jow	MSU	Engineering	Capstone	3

Team Dow
Alpha Presentation

Team Dow Alpha Presentation

Adding Request Approver

Approvers - New Item

Edit

Save Cancel Paste Copy Attach File Spelling

Commit Clipboard Actions Spelling

Username *	<input type="text" value="Houston, Sam"/>
business1	<input type="text" value="Performance Systems"/>
business2	<input type="text" value="Dow Wire & Cable"/>
business3	<input type="text"/>
orderOf	<input type="text" value="1"/>

Save Cancel



Type	Name	Document Status	Business Name	Assignee	Comments
Document	p202 Request - New	Rejected	WGS > Engineering > Capstone	Joe Amadio	
Document	p202 Request - New	Approved	WGS > Engineering > Capstone	TEAMDOW-SERVER@fsw.com	I'm sorry, please try again... That's better. Sounds good. Stephen OK, but don't forget beer. -Gr. D.

Team Dow Alpha Presentation

Team Dow Alpha Presentation

New Spending Request

Shared Documents - Spending Request

Edit

Save Cancel Paste Copy Delete Item

Commit Clipboard Actions

i The document was uploaded successfully. Use this form to update the properties of the document.

Name *

Title

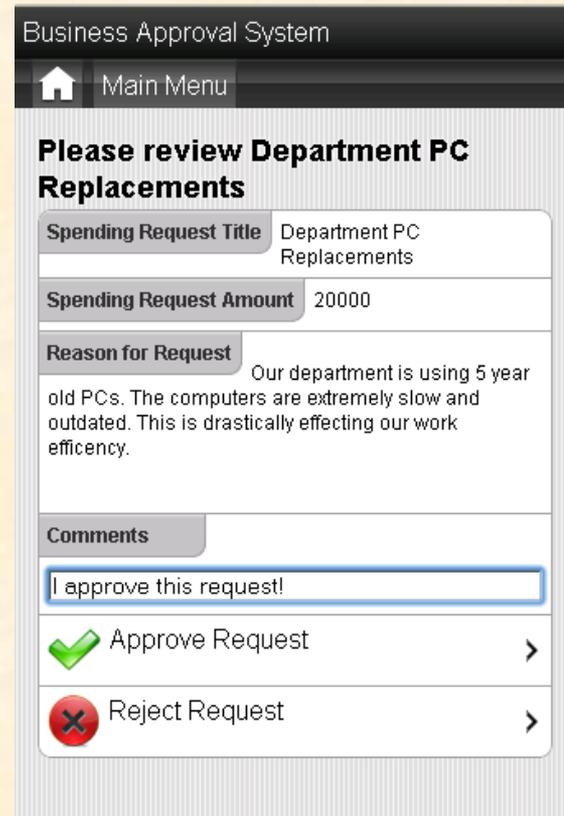
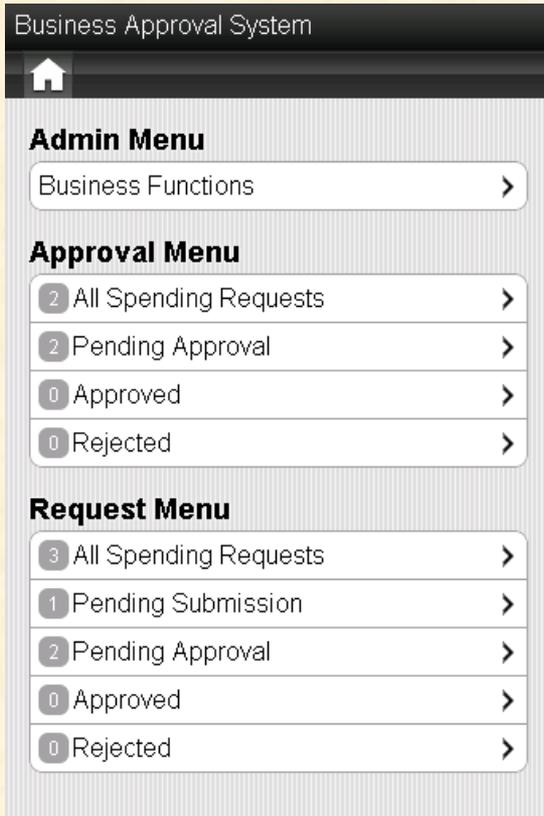
Created at 2/20/2011 8:07 PM by [Joe Amenta](#)
Last modified at 2/20/2011 8:07 PM by [Joe Amenta](#)

Save Cancel



Team Dow Beta Presentation

iPhone App



Team Dow Beta Presentation

New Request

Spending Requests - New Item

Edit

Save Cancel Paste Copy Spelling

Commit Clipboard Spelling

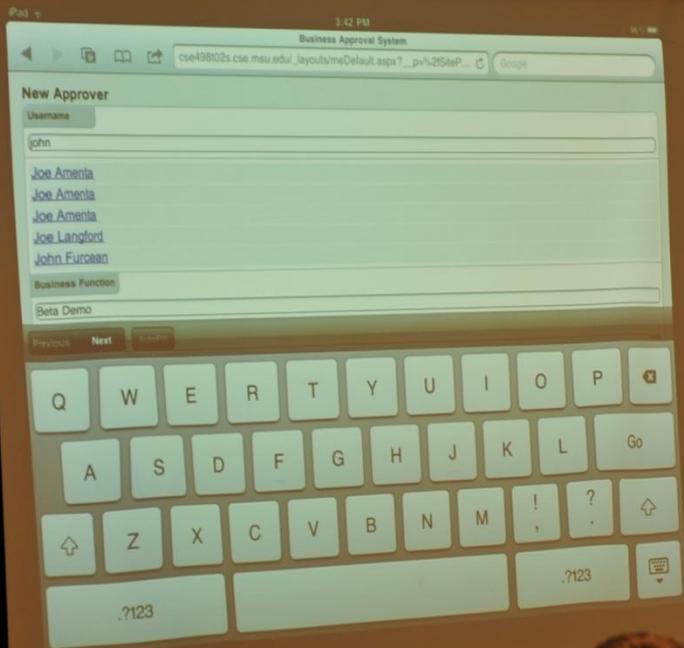
Spending Request Title * Pizza Party

Spending Request Amount * 1000.00

Reason for Request *
Need \$1000.00 for a pizza party on Friday.

Save Cancel





Team Dow
Beta Presentation

A man in a white dress shirt and a dark tie with white polka dots is standing and presenting to a group of students seated at desks in a classroom. The students are looking towards the presenter. The room has a plain, light-colored wall and a black power cord hanging from the top. The text "Team Dow Beta Presentation" is overlaid at the bottom of the image.

Team Dow
Beta Presentation

The Dow Chemical Company Business Approval System

Money is the lifeblood of every company. Every corporate officer and board member has an obligation to the stockholders to ensure that resources are being used responsibly.

The Dow Chemical Company currently has a process in place to approve or reject spending requests. For every department in the company, there is a clearly defined chain of approval through which all material spending requests must be made. There is one person in the chain who approves the request, the funding is provided.

One of the purposes of technology in an organization is to improve the quality of our lives by making certain tasks easier. With that idea in mind, we set out to build a system to handle the existing approval process electronically. Our software enables the people involved in the approval process by email when a new request is created, it also sends the request to each individual in the approval order.

Our Business Approval System also allows each approver in the chain to enter comments, and all of the people in the process can review them and add their own. A historical record of all requests is maintained.

In the fast-paced modern business environment, people need to be able to access the software from a variety of devices, from a PC or laptop to an iPad or smartphone. Our software is able to be used from any of those devices to facilitate that lifestyle.



Business Approval System

Team Members:
John Anderson
Drew Anderson
Drew Anderson
Drew Anderson
Drew Anderson

Team Dow
Design Day

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Team GE Aviation

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



12,405,144* hours

The GE90 reaches 10 million hours of flight

* Estimated based on fleet averages



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[» ABOUT AVIATION](#)

Our Engines



GO

Our Services



GO

Sign-In



GO



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.



The right engine. Right now.

Explore program milestones, specifications, downloads and more for GE's next

GE Stock

Dec 29, 2009 at 16:00 ET 15.44 +0.10



OnPointSM

Interactive



Team GE Aviation Project Overview

MSU Next Generation Flight Deck

- Pilot Tasks
 - Aviate
 - Navigate
 - Communicate
 - Manage Systems
- MSU Capstone Flight Deck, V1
 - Integrate Previous Capstone Projects
 - Add New Features and Functionality
 - Integrate with X-Plane
- Aviation Use Case
 - Real Life
 - Demonstrate Improved
 - Efficiency
 - Safety
- Technologies
 - X-Plane
 - Previous Capstone Projects
 - [Synthetic Vision Display](#), Fall 2009
 - [Lateral Map Display](#), Spring 2010
 - [Super Synoptics](#), Fall 2010
 - Open GL, GL Studio, GLUT, GLEW



A group of four young men sitting around a wooden conference table in an office. From left to right: Bill Zajac in a dark suit and striped tie; Steven Cornfield in a dark suit and dark tie; Alex Delgado in a blue and white plaid shirt and dark tie; and Dan Alexander in a dark suit and patterned tie. The background shows office equipment, a window with trees outside, and a small refrigerator.

Bill
Zajac

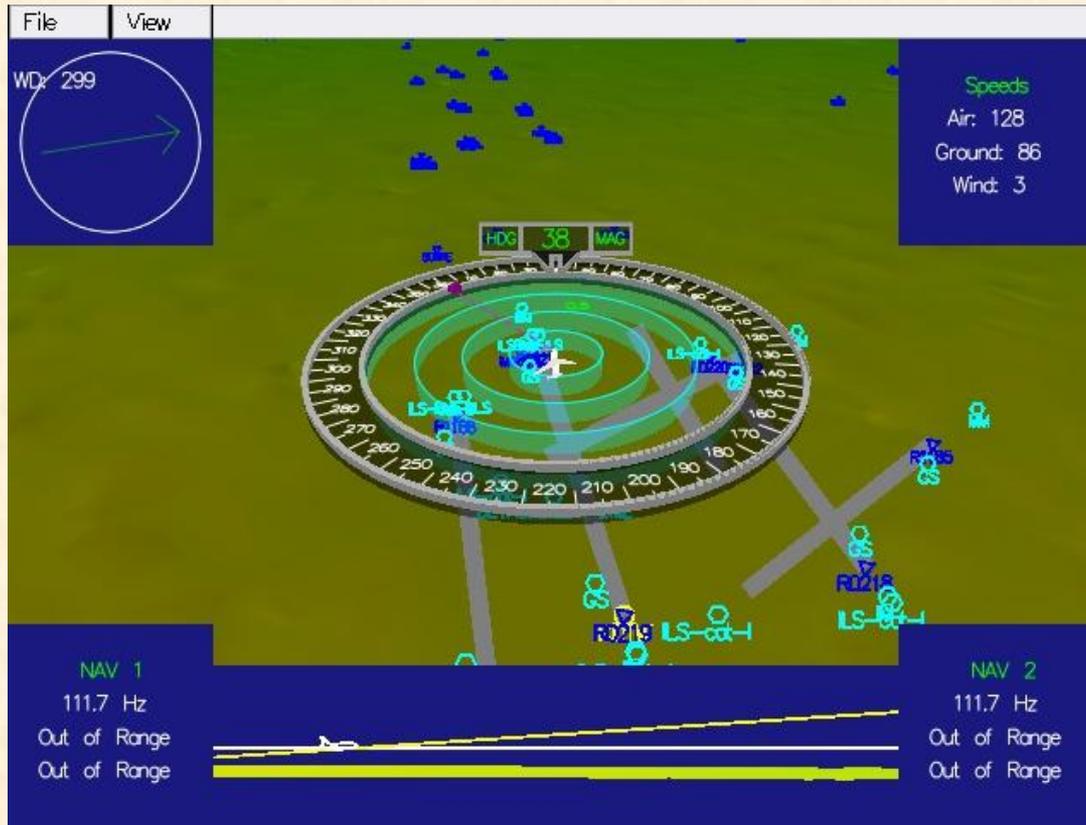
Steven
Cornfield

Alex
Delgado

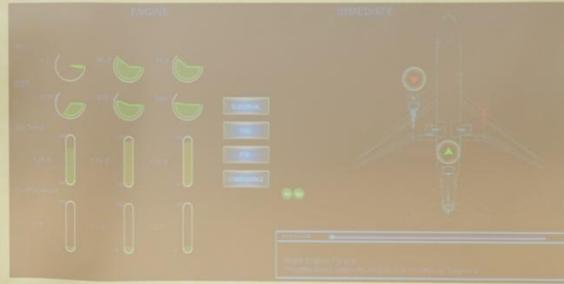
Dan
Alexander

Team GE Aviation
Team Photo

Team GE Aviation Screen Mockup

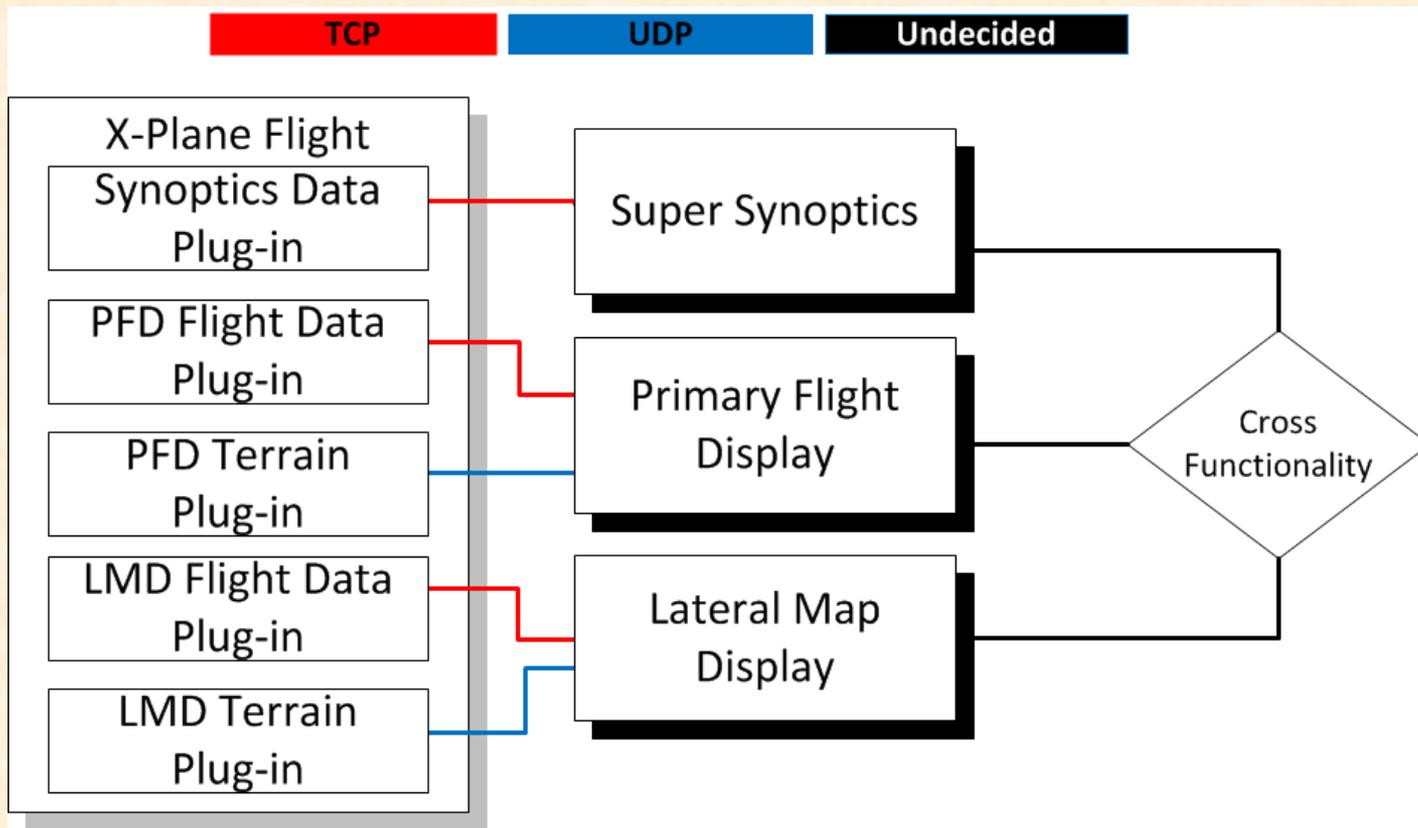


Screen Shot - Super Synoptics

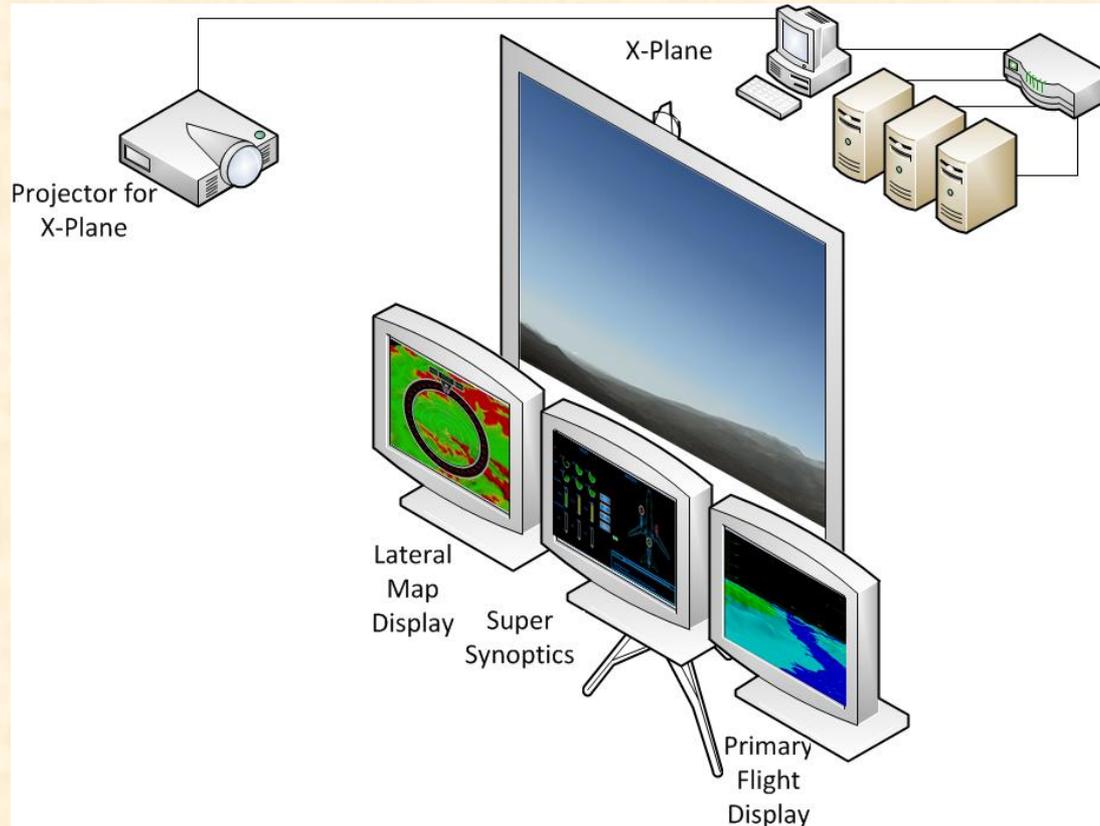


Team GE Aviation
Project Plan Presentation

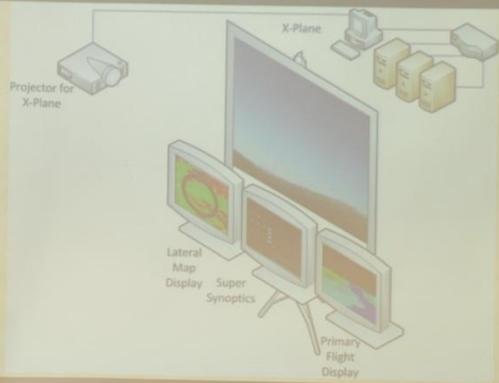
Team GE Aviation Architecture Diagram



Team GE Aviation Hardware Setup



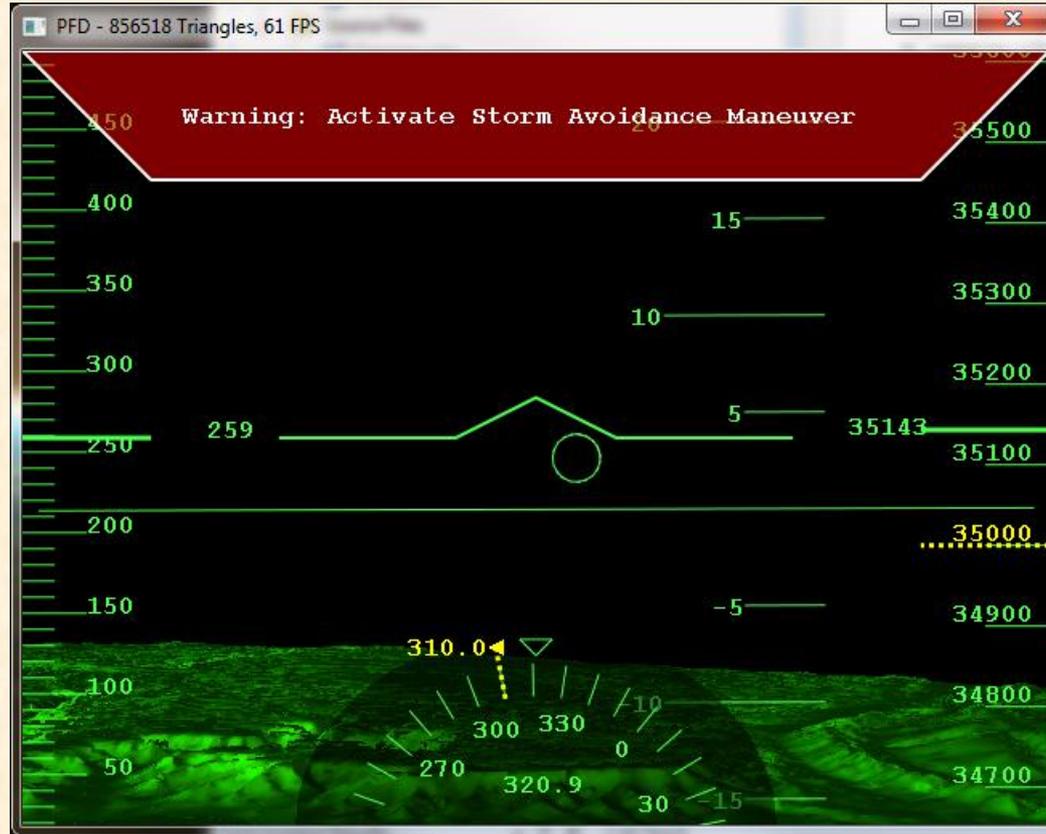
Hardware Setup



Team GE Aviation
Project Plan Presentation

Team GE Aviation Alpha Presentation

Weather Avoidance (PFD)

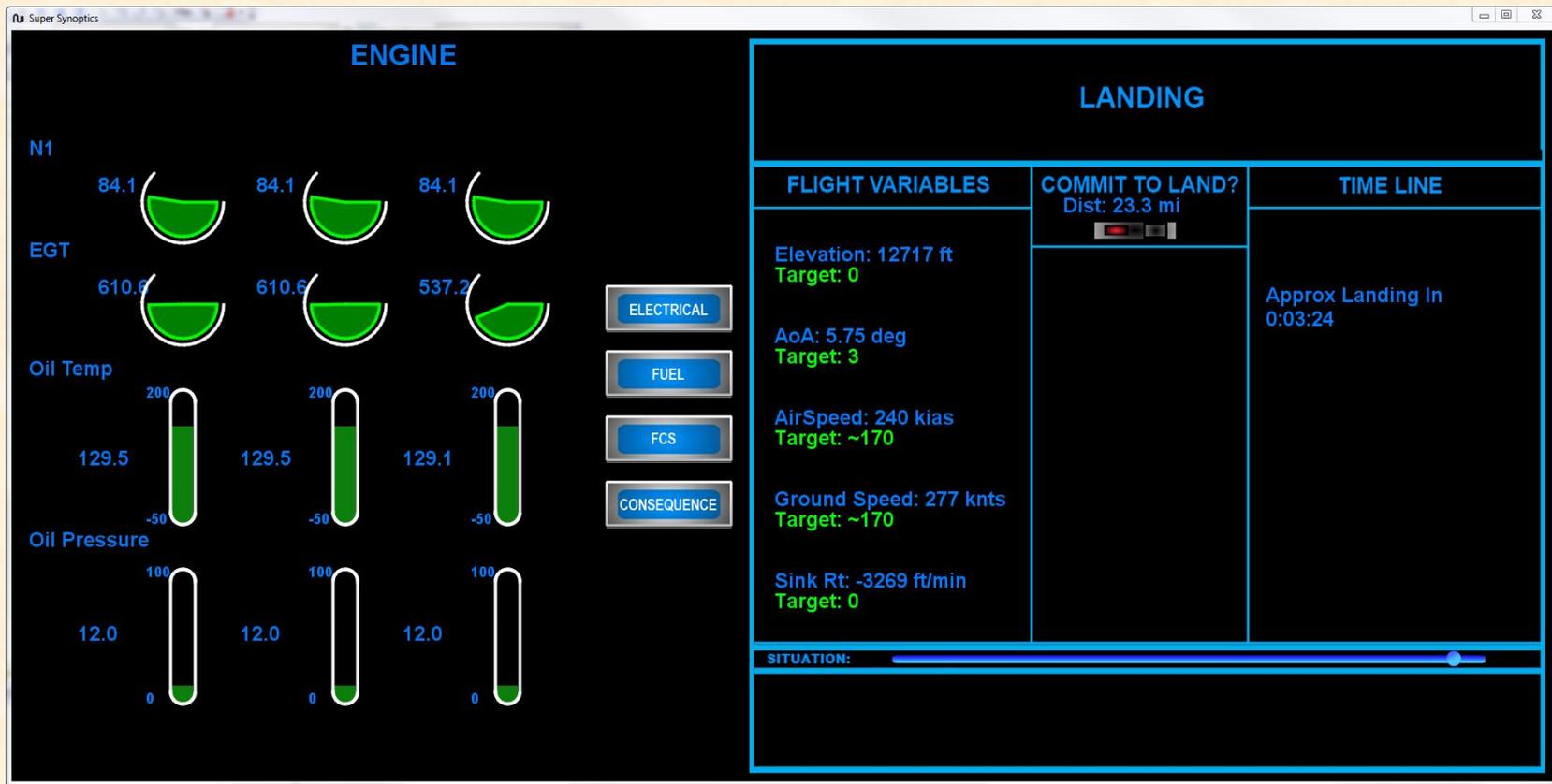




Team GE Aviation Alpha Presentation

Team GE Aviation Alpha Presentation

Super Synoptics



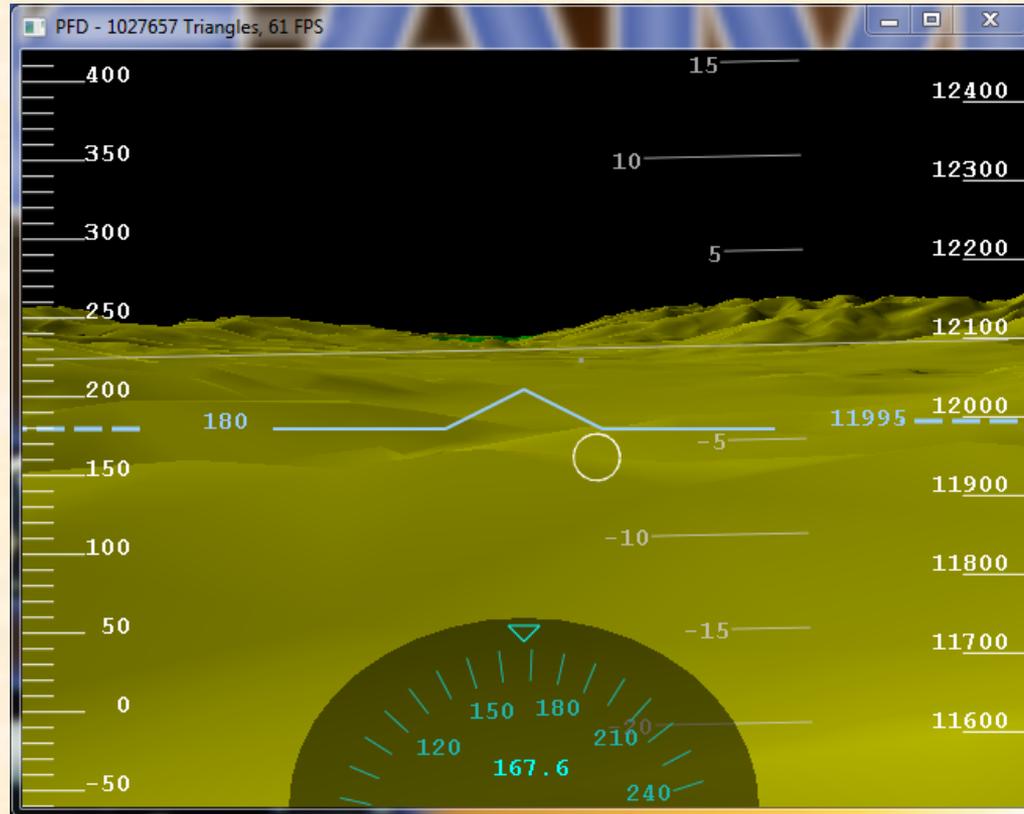


Team GE Aviation Alpha Presentation



Team GE Aviation Beta Presentation

Primary Flight Display

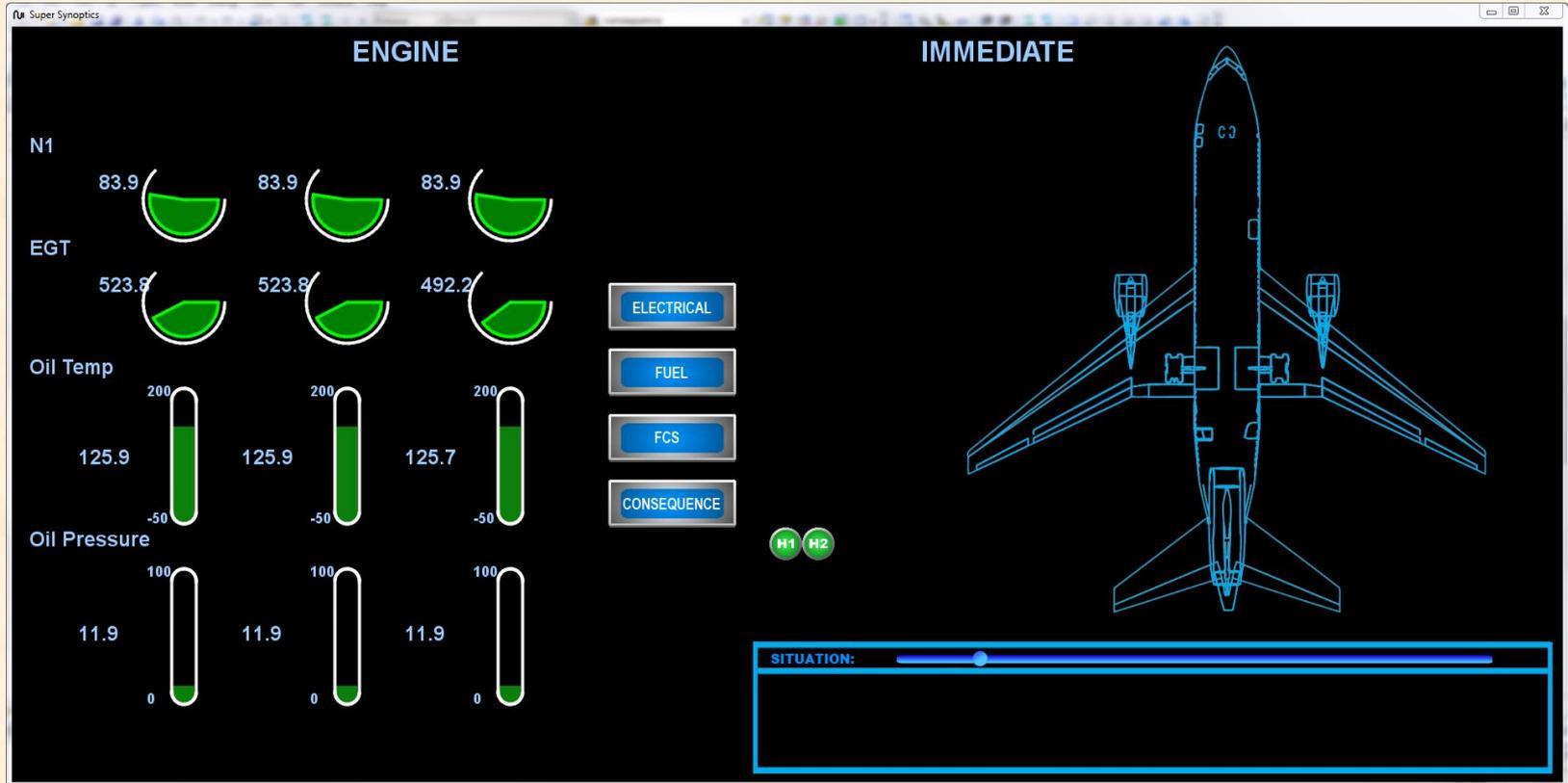




Team GE Aviation
Beta Presentation

Team GE Aviation Beta Presentation

Super Synoptics





Team GE Aviation
Beta Presentation



Team GE Aviation
Design Day

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Team Medtronic

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



Medtronic

UNITED STATES



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- [Careers](#)
- [Investors](#)
- [Newsroom](#)



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

Medtronic Worldwide

Team Medtronic Project Overview

Cloud-Based Athletics Operations Center

- University Athletics Information Portal
 - Resources
 - People (Coaches, Athletes, Managers, Trainers, Etc.)
 - Facilities (Practice, Training, Meeting, Etc.)
 - Etc.
 - Information
 - Schedules (People, Facilities, Teams, Etc.)
 - Athlete Health Records
 - Videos (Scouting, Training, Etc.)
 - News Feeds
 - Weather and Travel Conditions
 - Etc.
- User Features
 - People Presence
 - Calendaring, Emailing, Instant Messaging
 - Video Conferencing
 - Etc.
- Technologies
 - ASP.net, C#.net
 - Microsoft Office 365 Cloud Services
 - Microsoft Azure Cloud Services
 - Microsoft HealthVault



Medtronic

The Capstone Experience



Caitlin
Russ



Mike
Holp



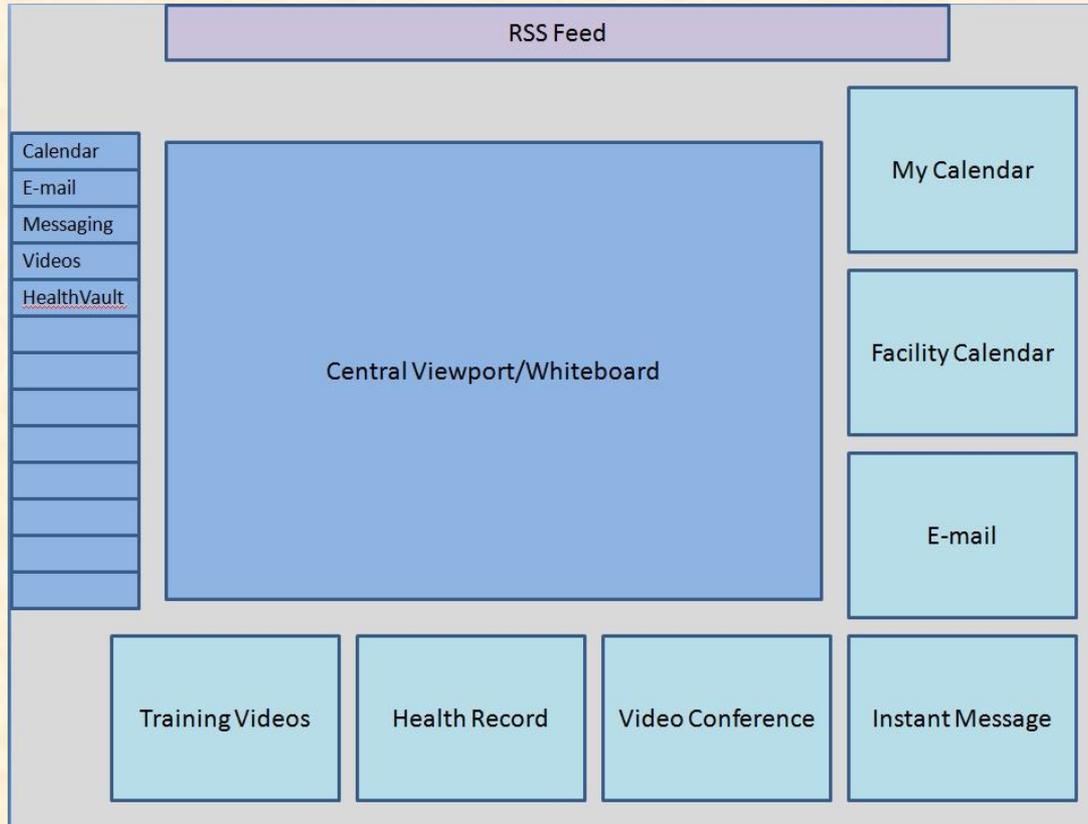
Evan
Francis



Chris
Paterson

Team Medtronic
Team Photo

Team Medtronic Screen Mockup



System Components

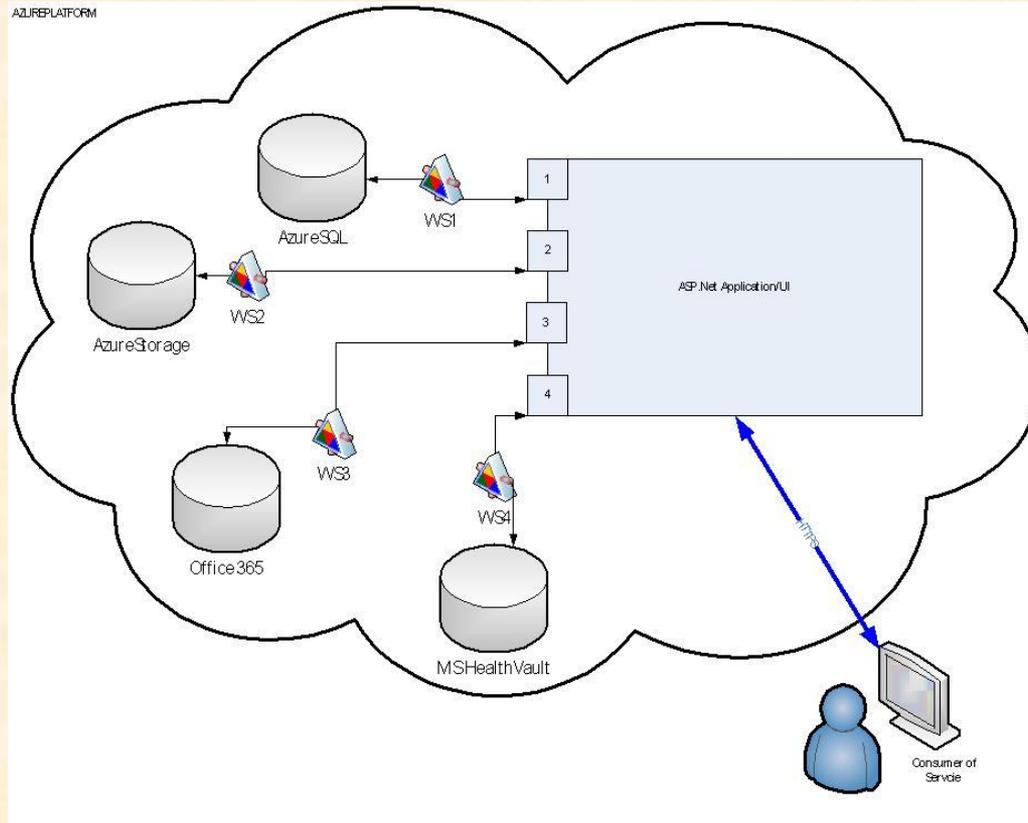
- Hardware Platforms
 - Azure Cloud Platform
 - Windows 7 Professional 64-bit
- Software Platforms / Technologies
 - ASP.NET / C#
 - jQuery
 - Microsoft SQL Azure
 - Microsoft Azure Storage
 - Microsoft Office 365
 - Microsoft Health Vault

The Gateway Experience

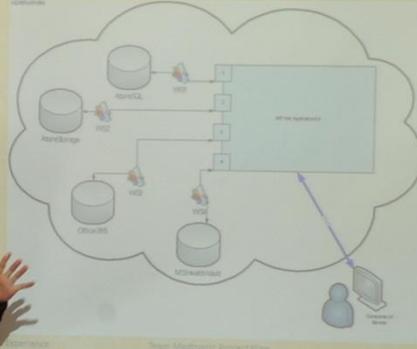
Team Medtronic, Project Plan

Team Medtronic
Project Plan Presentation

Team Medtronic Architecture Diagram



System Architecture



Team Medtronic
Project Plan Presentation

Team Medtronic Alpha Presentation

Personal Calendar

Cloud-Based Athletics Operations [Log In]

Home About

This is a sample RSS text!

Navigate me!

- My Calendar
- Facility Calendar
- School Calendar
- HealthVault
- Video Tutorials

Message me!

My Calendar

February 2011

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

Facility Calendar

February 2011

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



Team Medtronic Alpha Presentation

Team Medtronic Alpha Presentation

Video Tutorials

Cloud-Based Athletics Operations [Log In]

Home About

This is a sample RSS text!

Navigate me!

- My Calendar
- Facility Calendar
- School Calendar
- HealthVault
- Video Tutorials

Message me!

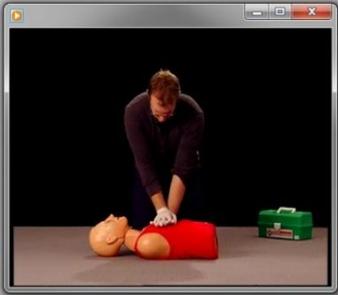
Video Tutorials

Name:

Category:

Upload File:

[First Aid CPR](#)



HealthVault Name:

School Calendar

February 2011

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

Facility Calendar

February 2011

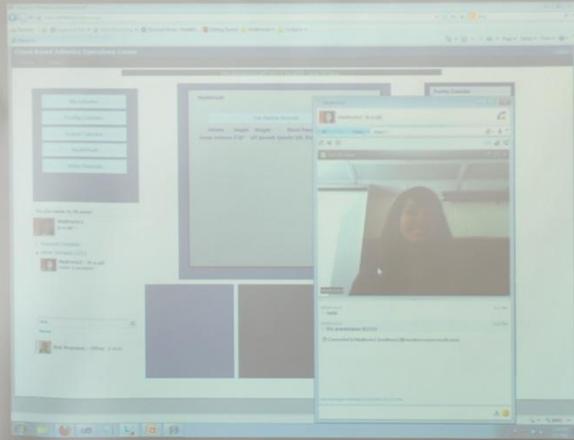
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	1	2	3	4	5
6	7	8	9	10	11	12

My Calendar

February 2011

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

The Capstone Experience



Team Medtronic Alpha Presentation

Team Medtronic Beta Presentation

Main Interface

The screenshot displays the Medtronic Cloud-Based Athletics Operations Center main interface. At the top, the Medtronic logo and the text "CLOUD-BASED ATHLETICS OPERATIONS CENTER" are visible. A "Logout" link is in the top right corner. Below the header, a news item reads "Connecticut edges Kentucky to reach title game".

On the left, a navigation menu includes: My Calendar, Facility Calendar, School Calendar, HealthVault, and Video Tutorials. Below this menu is a search bar with the text "This site makes my life easier!".

The central "Facility Calendar" shows a weekly view from Sunday, April 3, 2011, to Saturday, April 9, 2011. The calendar grid has time slots from 6 AM to 8 PM. Events are scheduled for 9:00 AM to 10:30 AM on Monday, Wednesday, and Friday, all labeled "Project Meeting".

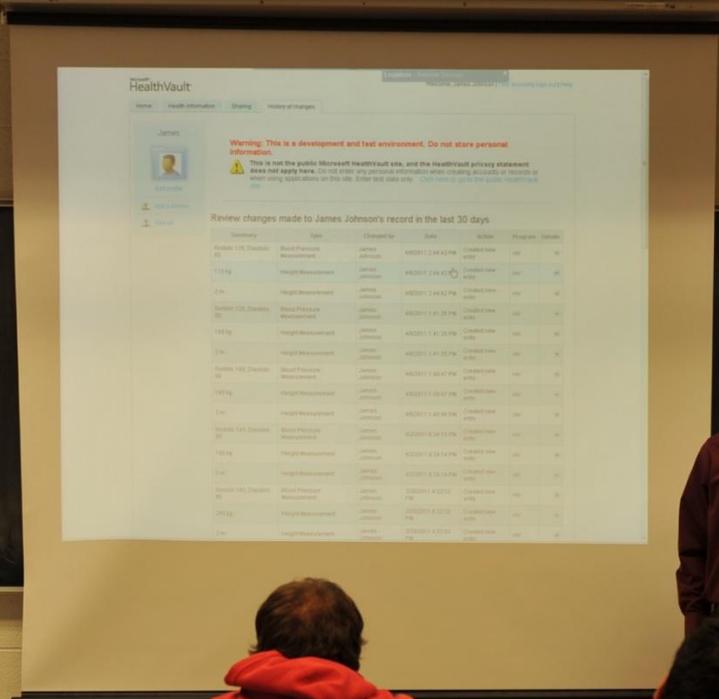
On the right, there is a video player showing a soccer game on a field. Below the video is the "School Calendar" for the same week, showing a "School Closed" event from 10:00 AM to 01:00 PM on Monday, April 4, 2011. Other events include "09:00 am to 05:00 pm" on Wednesday, April 6, 2011.

At the bottom right, the "HealthVault" section is active, displaying "Your Health Information". It shows the user is logged in as James Johnson. A table lists health data:

Type	Date	Value
Height	4/2/2011 7:24:07.795 PM	3.00
	4/2/2011	

An instant messaging window for "Medtronic2" is open in the bottom left, showing a chat log with the message "can you tell me where the tennis facility is?" and a response "A".

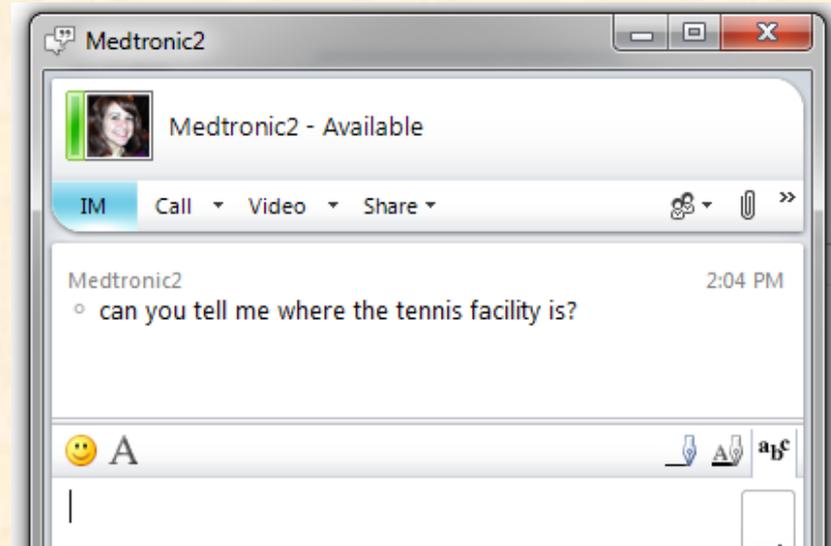
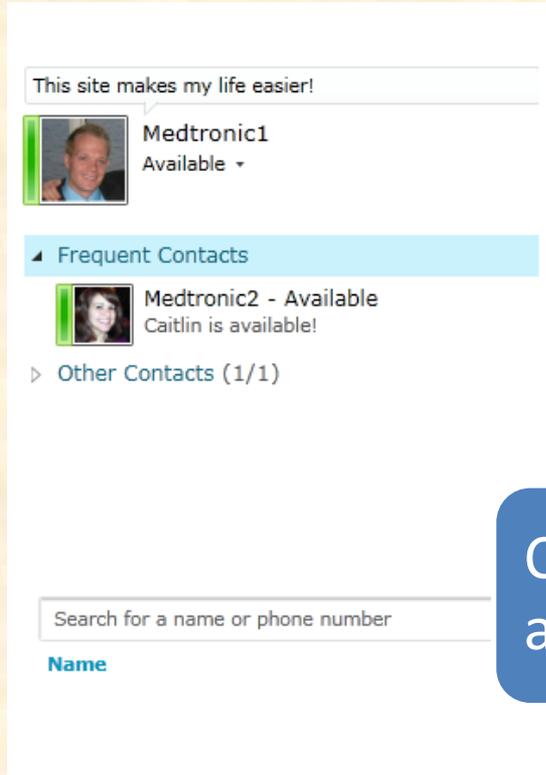




Team Medtronic Beta Presentation

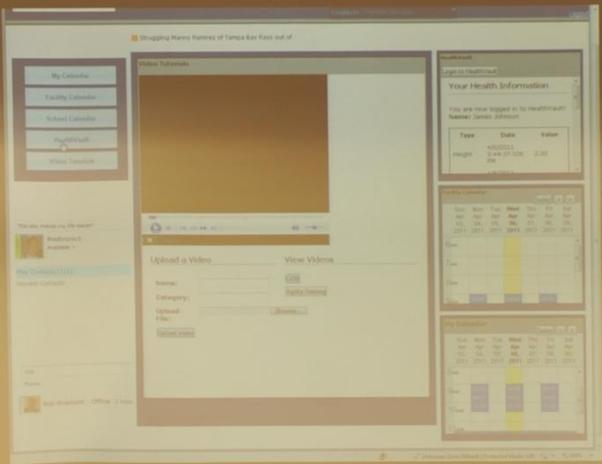
Team Medtronic Beta Presentation

Lync Presence Controls



Communicate with instant messaging
and video conferencing





Team Medtronic
Beta Presentation





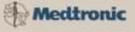
Medtronic, Inc. Cloud-Based Athletics Operations Center

In over 50 states, Medtronic's mission has been to help athletes, coaches, parents, and fans live the exciting life of a cloud service, a simple service offering based on Microsoft Azure Cloud Services, web-based and mobile.

The objective of our software system is to give coaches, athletes, and fans a platform to manage their own data to provide information and collaboration on improving the overall health of the athlete while in season, during and after the season, and to manage, provide information of resources and support functions at all stages of the season.

Our team has created a Cloud Based Athletics Operations Center to assist coaches and athletes with all aspects of their athletic and fan experience, including: Health Research, Values, and relevant B2B leads.

The key focus of the Athletics Operations Center is to provide coaches and athletes a robust environment in which to access reliable information, manage multiple users to easily communicate with others using the system. The Cloud Based Athletics Operations Center is available to all athletes and fans, and is primarily designed to be accessed on large screen-like systems. The web application is written in ASP.NET and is hosted on Microsoft Azure cloud-based hardware.



Medtronic Design Day Participants	Medtronic Design Day Participants
Chris Burt	Shelly Johnson
David Burt	Michelle Johnson
John Burt	Mike Johnson
Michelle Burt	Michelle Johnson
Michelle Burt	Michelle Johnson
Michelle Burt	Michelle Johnson
Michelle Burt	Michelle Johnson
Michelle Burt	Michelle Johnson
Michelle Burt	Michelle Johnson
Michelle Burt	Michelle Johnson

Team Medtronic
Design Day

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Team Meijer

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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

meijer[®]



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

- 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

18 Hrs 41 Mins 28 Secs



Acoustic Research

After Christmas Online Clearance Save 20-60%!

clearance **save 20-60%**

Team Meijer Project Overview

Consumer Payroll Check Cashing Analytics

- Consumer Payroll Check Cashing Service
 - In Store At Service Desk
 - Users Must Enroll 7 Days in Advance
 - Uses Third Party Authentication Service (Certegy)
- Design and Implement Reporting Features
 - Ad Hoc Reports by Customer, Store, Date, Etc.
 - Fraud Analysis
 - Reports by Store, Groups of Stores, and All Stores
 - Upload and Store Images of Returned Checks
 - Print Automated Prosecution Package for Law Enforcement
 - Predictive Alerts Engine
 - Transaction Trending
- Technologies
 - Microsoft Visual Studio 2010
 - Microsoft Office 2007, 2010
 - Microsoft SQL Server 2008
 - Microsoft SQL Server Reporting Services (SSRS)



meijer®

The Capstone Experience





Hussein
Hijazi

Anthony
Graziosi

Moe
Yassine

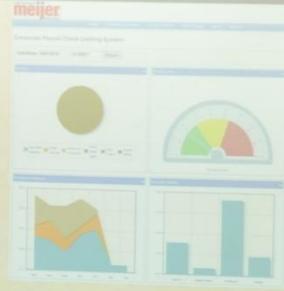
Matt
Rose

Team Meijer
Team Photo

Team Meijer Screen Mockup



Screen Mockups



Team Meijer
Project Plan Presentation

Team Meijer Screen Mockup



[Home](#) | [Customers](#) | [Activity Search](#) | [Reports](#) | [Utilities](#)

John Doe (A1212341)

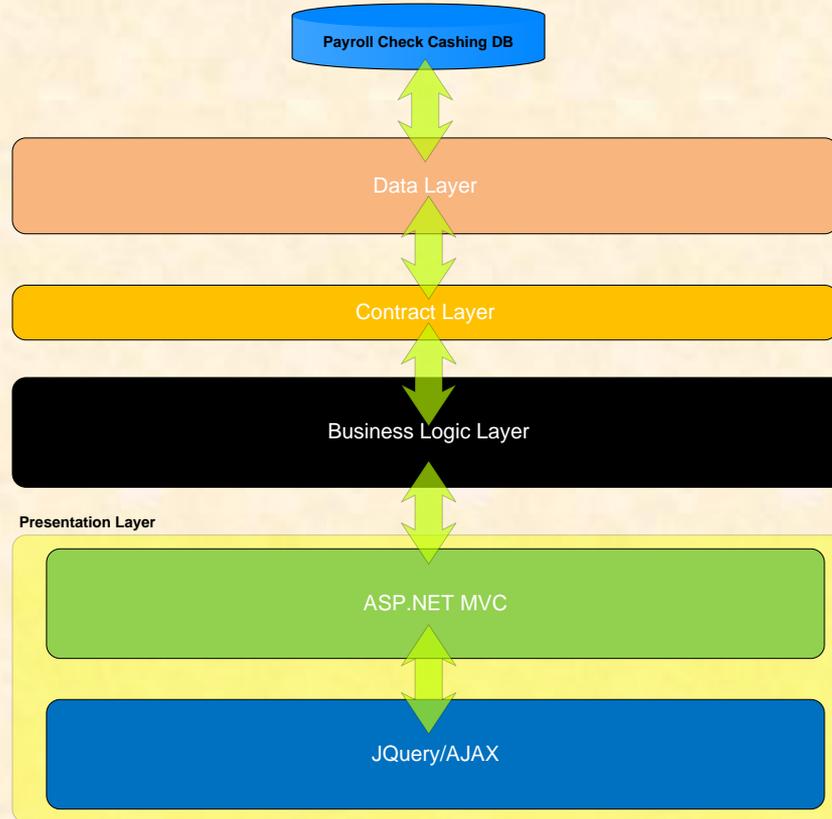
Customer Name John Doe
Enrolment Date 1/1/2009
Date of Birth 1/1/1989
Account Status Active Account

Employer Name Michigan State University
Employer Number EMP123215

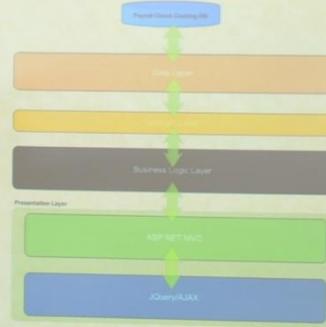
Activity Log			
	Activity Date	Action Type	Activity Status
View	1/1/2010	Action Type	Declined
View	1/1/2010	Action Type	Declined
View	1/1/2010	Action Type	Declined



Team Meijer Architecture Diagram



System Architecture

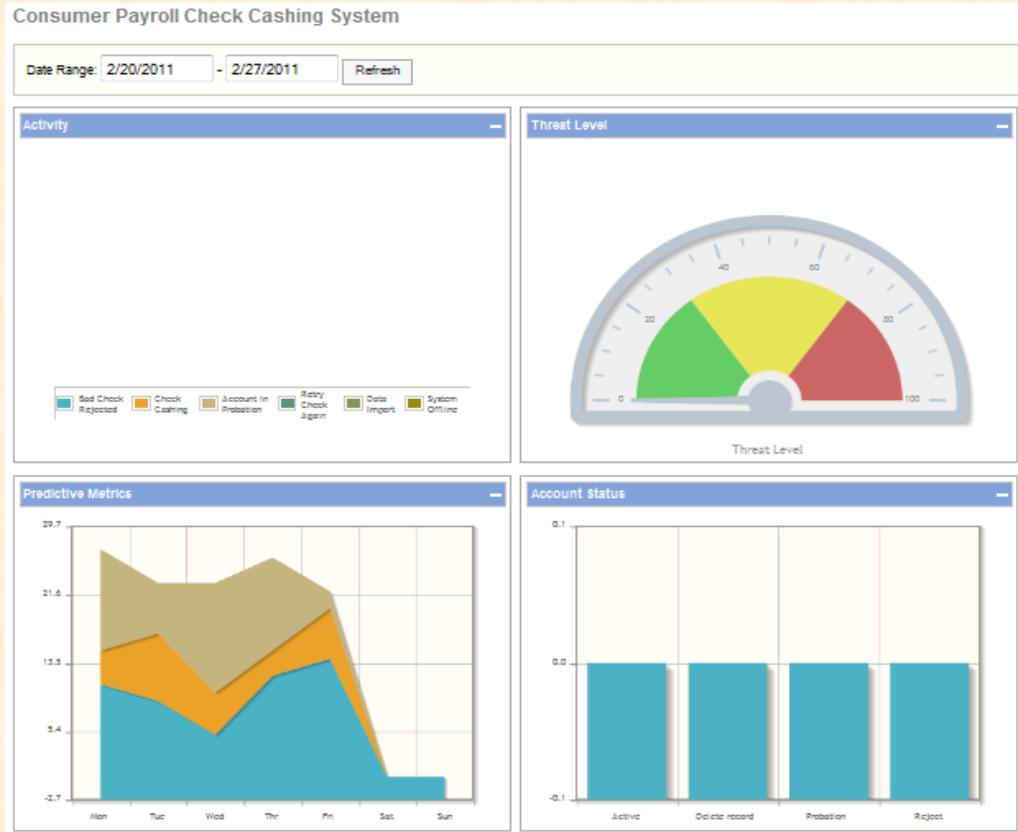


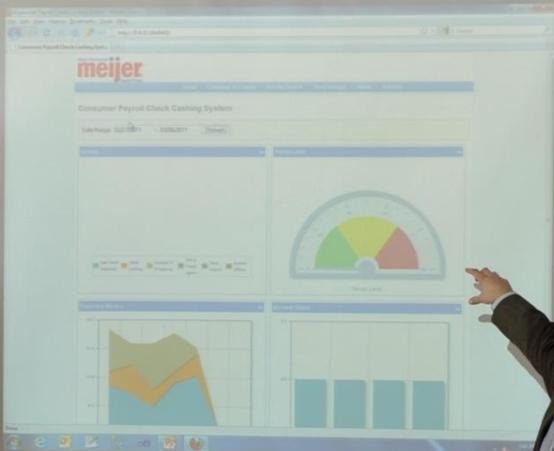
The Capstone Experience Team <Company Name> Project Plan 12

Team Meijer
Project Plan Presentation

Team Meijer Alpha Presentation

Dashboard Screen





Team Meijer Alpha Presentation

Team Meijer Alpha Presentation

Activity Search Screen

Higher Standards
meijer
Lower Prices

Home | Customer Accounts | Activity Search | Store Groups | Alerts | Reports

Activity Search

Action Type Activity Date -

[more search options](#)

Showing 1-20 of 53030

	Customer #	Check Date	Check Amount	Meijer	Certegy	Action	Date
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$90.00	Do Not Cash - Do not Try Again	Offline to Cert - no cashing	System Offline	1/18/2011
view	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SBN	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SBN	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SBN	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$60.00	Do Not Cash Check - Try Again	ID and DOB did not match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$50.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	1/18/2011	\$40.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	1/18/2011	\$45.00	Cash Check	No Text - Cash Check	Check Cashing	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash - Do not Try Again	Decline Message	Account in Probation	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$20.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	1/18/2011	\$10.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	12/31/2010	\$25.00	Cash Check	No Text - Cash Check	Check Cashing	1/14/2011
view	B123456789456	1/5/2011	\$150.00	Do Not Cash Check - Try Again	Recollect all data and retry	Retry Check Again	1/14/2011
view	B123456789456	1/5/2011	\$150.00	Do Not Cash Check - Try Again	Recollect all data and retry	Retry Check Again	1/14/2011

Customer ID	Name	Company	Company Address	Company City
00000000000000000000	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
00000000000000000000	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
00000000000000000000	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX

Team Meijer
Alpha Presentation



Team Meijer Beta Presentation

Customer Info Screen



Home | Customer Accounts | Activity Search | Store Groups | Alerts | Reports

B123456789456

Customer Number B123456789456
Name tester
Date Of Birth 3/19/1974 12:00:00 AM
Enrollment Date 1/18/2011 10:42:17 AM

Employer Id 38
Employer Name NUL
Routing Number 876543212
Government Check? No

Activity Log

Showing 1-10 of 183

	Customer #	Check Date	Check Amount	Meijer	Certegy	Action	Date
View	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$90.00	Do Not Cash - Do not Try Again	Offline to Cert - no cashing	System Offline	1/18/2011
View	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SSN	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SSN	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SSN	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$60.00	Do Not Cash Check - Try Again	ID and DOB did not match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$50.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
View	B123456789456	1/18/2011	\$40.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011

[Next Page](#)

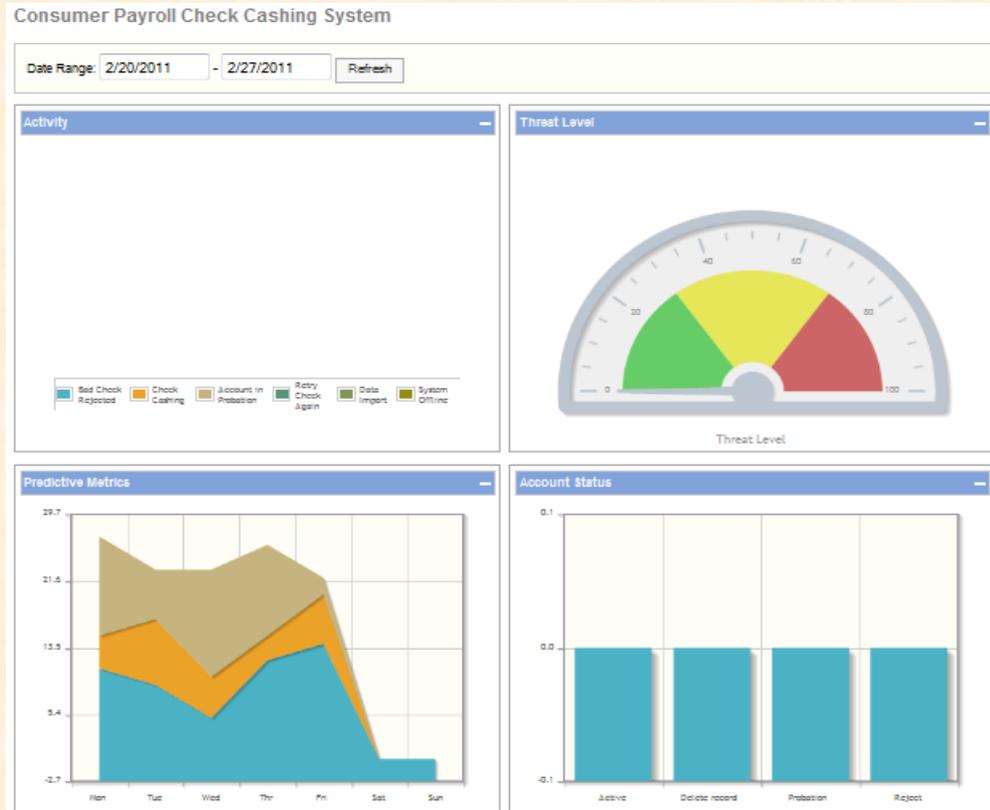




Team Meijer Beta Presentation

Team Meijer Beta Presentation

Dashboard Screen





Meijer
Consumer Payroll Check Cashing Analytics

1. Introduction
2. Project Overview
3. Data Collection
4. Data Analysis
5. Results
6. Conclusion

meijer

Project Manager
Data Analyst
Software Engineer
Product Designer
Marketing Specialist

Team Meijer
Design Day

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Team Motorola Mobility

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



MOTOROLA

 WELCOME TO **MOTOROLA**



FOR **CONSUMERS**



FOR **BUSINESS**

Team Motorola Mobility Project Overview

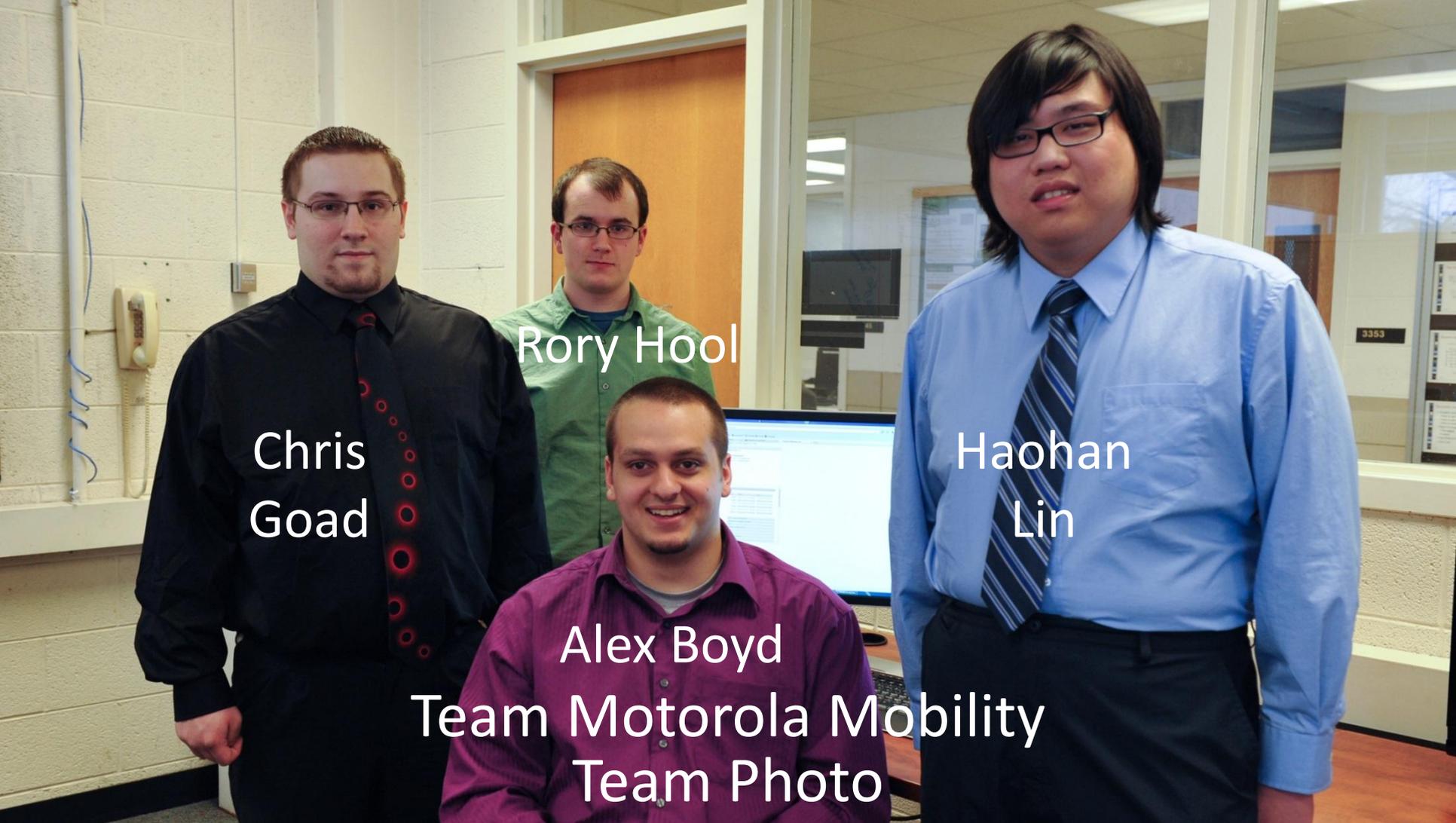
Enhance Programming Guide Authoring System

- [Enhanced Program Guides for Mobile Devices](#), Fall 2010
 - Provide Enhanced Information
 - Actor Biographies
 - Merchandise Seen on Show
 - Etc.
 - Pushed to Mobile Devices
 - While Consumer Watches Content
 - Non-Intrusive Manner
- Project Extensions
 - Life Cycle Management System
 - Network Operators (e.g., Comcast)
 - Content Providers (e.g., NBC Universal, Disney)
 - Secondary Metadata
 - Triggers
 - Synchronization
 - Display in Selectable Layers
 - Consumer Interactivity with Metadata
- Technologies
 - Java (Servlets, JEE, JSE)
 - Web Services (RESTful)
 - Web Development (XML, JSON, JavaScript, GWT)
 - iPhone, iPad Development (Objective-C)
 - Android Development (Java)



MOTOROLA





Chris
Goad

Rory Hool

Haohan
Lin

Alex Boyd

Team Motorola Mobility
Team Photo

Team Motorola Mobility Screen Mockup

Main Page

Content Authoring Tool

Main Content Management Association Management

Logged in as: Kabe [Preferences](#) | [Logout](#)

Primary Content

Extreme Dinosaurs
Mass grave beds in Canada and Argentina support a theory about a...

Deep Sea Aliens
Unravel the intelligence of the octopus

Vampires from the Abyss
The mysteries of the vampire squid.

The Planets
The explosive birth of our solar system

How Do They Do It?
Mega hotels: lasers; desert golf.

How Do They Do IT?
Manufacturing drink cartons, prefabricated homes and mobile...

How Do They Do IT?

Content Information

Title: Extreme Dinosaurs
Description: Mass grave beds in Canada and Argentina support a theory about a flesh-eating dinosaur that hunted in packs.
Series Type: Documentary
Genres: Science, History, Paleontology
Running Time: 60 minutes

Show times:

New York, NY

Los Angeles, CA

Science Channel

Date	Time	Secondary Content	Rerun
Friday 02-04-2011	6:00PM PST	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Monday 02-07-2011	4:30PM PST	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Monday 02-07-2011	8:30PM PST	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Monday 02-14-2011	4:30PM PST	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

East Lansing MI

London, England

Secondary Content

General Lineup Specific Instance Specific

- f** Title: Science Channel Facebook Page
Format: Facebook Page
Time: 1:30
- 📷** Title: City of LA PSA
Format: Image
Time: 2:45
- 📺** Title: Interview with Dr. Dinoman
Format: Video
Time: 4:00
- 📷** Title: Scale image of dinosaurs and
Format: Image
Time: 6:15
- 🔗** Title: Link to Science Channel Site -
Format: Hyperlink
Time: 7:45
- 📺** Title: Advert for following program
Format: Video
Time: 14:00
- 📺** Title: Advert for LA pizza
Format: Video
Time: 16:00
- 📷** Title: Advert for Olympics
Format: Image
Time: 20:00
- 📷** Title: 3D Render of Brontosaurus
Format: Image
Time: 22:00

Screen Mockups

Main Page

The screenshot displays a software interface with several panels. On the left, there are sections for 'General Information' and 'Advanced Settings'. The 'Advanced Settings' section includes a 'Project Information' table with columns for 'Project Name', 'Start Date', and 'End Date'. The table contains three rows of data:

Project Name	Start Date	End Date
Project 001-001-001	1/1/2010 12:00	1/1/2010 12:00
Project 001-001-002	1/1/2010 12:00	1/1/2010 12:00
Project 001-001-003	1/1/2010 12:00	1/1/2010 12:00

Below the table, there are sections for 'Project Details' and 'Project Summary'. The 'Project Summary' section includes a 'Project Overview' table with columns for 'Project Name', 'Start Date', and 'End Date'. The table contains three rows of data:

Project Name	Start Date	End Date
Project 001-001-001	1/1/2010 12:00	1/1/2010 12:00
Project 001-001-002	1/1/2010 12:00	1/1/2010 12:00
Project 001-001-003	1/1/2010 12:00	1/1/2010 12:00

At the bottom of the interface, there is a 'Project Summary' section with a 'Project Overview' table and a 'Project Details' section.

Team Motorola Mobility
Project Plan Presentation

Team Motorola Mobility Screen Mockup

Association Management - Table View, Searching Secondary Content with filters

Content Authoring Tool
Main | Content Management | **Association Management** | Logged in as: Kabe | Preferences | Logout

Currently Selected Primary Content:
Title: Extreme Dinosaurs - Episode 112 [change content]
Lineup Specific: Los Angeles, CA [change lineup] [remove lineup filter]
Specific Instance: Friday 02-04-2011, 6:00 PM PST [change instance] [remove instance filter]

Table View | Timeline View

Associated Secondary Content | General | Lineup Specific | Instance Specific

Icon	Title	Format	Time	Toggle	Action
📄	Science Channel Facebook Page	Facebook Page	1:30	OFF	ⓧ
📷	City of LA PSA	Image	2:45	ON	ⓧ
📺	Interview with Dr. Dinoman	Video	4:00	ON	ⓧ
📷	Scale image of dinosaurs and humans	Image	6:15	ON	ⓧ
🔗	Link to Science Channel Site - Dinosaur	Hyperlink	7:45	OFF	ⓧ
📺	Advert for following program	Video	14:00	ON	ⓧ
📺	Advert for LA pizza	Video	16:00	ON	ⓧ
📷	Advert for Olympics	Image	20:00	ON	ⓧ
📺	3D Render of Brontosaurus	Image	22:00	OFF	ⓧ

Secondary Content

Find: Suggested Content
Filters:
Dinosaur
Tags: [Dropdown]
 Just my content
 Content Format:
Video (Selected)
Image
Hyperlink
Text
Facebook Page
Start: / /
End: / /

Results

<input type="checkbox"/>	Interview with Dr. Dinoman	Video	4:00	✓
<input type="checkbox"/>	Jurassic Park TV Spot	Video	6:45	
<input type="checkbox"/>	3D Render of Brontosaurus	Video	7:00	✓
<input type="checkbox"/>	Godzilla Advertisement	Video	12:0	
<input type="checkbox"/>	Velociraptor Muscle Model			

Remove associated content
Are you sure you want to remove this Generally Associated content? This will affect all showings. Consider disabling at Lineup or Instance level.
Remove | Cancel

Tags
Title
Description

On Hover
Waiting for URL from Science Channel web team [Remove note]

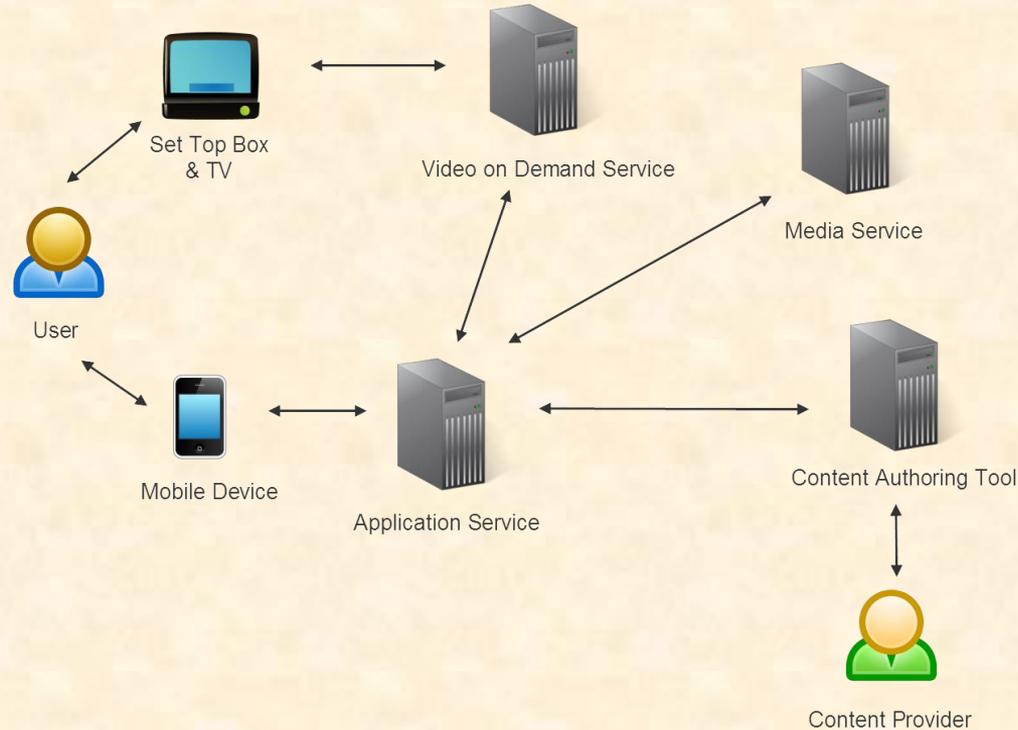
On Click (to Tags dropdown)

On Click (to Results item)

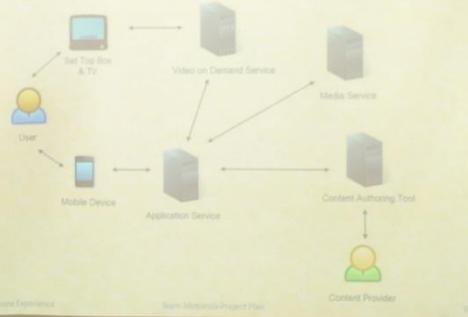
Refers to content already associated with primary content we are viewing, follows color coded standards



Team Motorola Mobility Architecture Diagram



System Architecture



Team Motorola Mobility
Project Plan Presentation

Team Motorola Mobility Alpha Presentation

View of Secondary Content

iPad 10:00 PM 82%

Select Episode Watching: "Mythbusters"

MythBusters IMDB Page

Adam Savage Wikipedia Article

Jamie Hyneman Wikipedia Article

MythBusters Wikipedia Article

MythBusters Interview - CBS News



WIKIPEDIA
The Free Encyclopedia

Main page
Contents
Featured content
Current events
Random article
Donate to Wikipedia

Interaction
Help
About Wikipedia
Community portal
Recent changes
Contact Wikipedia

Toolbox

Print/export

Languages
Български
Català
Dansk
Deutsch
Ελληνικά
Español

Article Discussion Read Edit View history Search

Adam Savage

From Wikipedia, the free encyclopedia

Adam Whitney Savage (born July 15, 1967^[*citation needed*]) is an [American industrial design](#) and [special effects designer/fabricator](#), actor, educator, and co-host of the [Discovery Channel](#) television series *[MythBusters](#)*.^[1]

Contents [hide]

- 1 Early life and education
- 2 Career
- 3 MythBusters
- 4 Personal life
- 5 References
- 6 External links

Early life and education [edit]

Born in [New York City](#), Savage was raised in [Sleepy Hollow](#) in [Westchester County](#).^[2] His father, W. Lee Savage, was a painter, filmmaker, and animator known for his work on *[Sesame Street](#)*. His mother is a [psychotherapist](#). His sister Kate Savage is also an artist.

Adam Savage began acting as a child, and has had five years of acting school.^[1] His early credits include voicing [animated characters](#) that his father produced for *[Sesame Street](#)*, *[Mr. Whinnle's](#)* stock boy "limmy" in a *[Charmin](#)* commercial, a helper in

Adam Sav



Born Adam Whitn
July 15, 196
New York C

Occupation *MythBusters*
designer/fab
educator

Spouse Julia Savag
Website
<http://www.adamsavage.com>

Previous Show Next Show Reset Stop All



Team Motorola Mobility Alpha Presentation

Team Motorola Mobility Alpha Presentation

Association Management

Logout Currently Logged in as: null

Home Content Management Asset Management

Currently Selected Primary Content Change Primary Content

That '70s Show
Steaking
Kelso (Ashton Kutcher) persuades Eric (Topher Grace) to streak during President Ford's visit to town. With Laura Prepon, Danny Masterson and Wilmer Valderrama.
Show Type : Series Series ID : EP00277598 Program ID : EP002775980003 Original Air Date : 904953600000

Table View Timeline View

Title: Hugh Laurie - Wikipedia Article Delete
Format: Wikipedia Article
Time: 1

Title: Will Ferrell - Wikipedia Article Delete
Format: Wikipedia Article
Time: 1543

Title: Will Ferrell Interview Delete
Format: Youtube Video
Time: 387

Title: MythBusters - Crash and Burn Video Delete
Format: Youtube Video
Time: 344

Secondary Content

Search Content

- Hugh Laurie - Wikipedia Article
- Will Ferrell - Wikipedia Article
- Will Ferrell Interview
- Red Wings Statistics
- Flyers Statistics





Team Motorola Mobility
Alpha Presentation





Team Motorola Mobility Alpha Presentation

Team Motorola Mobility Beta Presentation

“CompleteTV” Mobile App

Select Episode Watching: "MythBusters" Favorites

Kari Byron

@nitekastguitar April 6th!!! Wednesday. Yay!

As requested, here is the full photo from the interview: <http://t.co/2R9jAu1>

@LIComputerGuy Will be shooting more soon! Thanks.

<http://t.co/E5aufR0> I did an interview with @keithdtk for Suicidegirls.com. Accompanied by a Kristin Cofer photo;

@normmacdonald You should take over the Artie chair!

Grant Imahara

MythBusters Official

Adam Savage

Angry Birds

Drop Box

MythBusters - Crash and Burn

Mythbusters - Walking on Water

Red Wings Statistics

Red Wings vs Colorado Fight

MythBusters IMDB Page

Mythbusters - Walking on Water

Adam Savage Wikipedia Article

Mythbusters - Car on Runway

Jamie Hyneman Wikipedia Article

Currently Featuring:
Red Wings vs Colorado Fight

Currently Featuring:
Red Wings Statistics

Currently Featuring:
Mythbusters - Walking on Water

Previous Show Next Show Reset Stop All



Team Motorola Mobility
Beta Presentation

Team Motorola Mobility Beta Presentation

Content Authoring Tool

MOTOROLA MOBILITY Content Authoring Tool Logout Currently Logged in as: null

Home Content Management Asset Management

TV Programs

- Clean House**
The Fleming Family
- ESPNEWS**
null
- Miss Spider's Sunny Patch Friends**
Country Bug-kin; A Star Fell on Sunny Patch
- MythBusters**
Airplane on a Conveyor Belt
- Olivia**
Olivia Packs Up; Olivia Is Invited to Dinner
- Olivia**
Olivia Paints a Mural; Olivia's Day at the Office

Clean House The Fleming Family

The crew embarks on a rescue mission when possessions fracture a family.

Show Type : Series
Series ID : EP00602685
Program ID : EP006026850114
Original Air Date : 1227052800000

Broadcasting Station(s)

Style

Schaumburg - Comcast

START TIME	DURATION
Wed Sep 29 01:00:00 EDT 2010	01:00:00

Science Channel HD

CompleteTV Content

- Red Wings Statistics
- MythBusters IMDB Page
- Red Wings Statistics
- Red Wings Statistics
- Jamie Hyneman Wikipedia Article
- Red Wings Statistics
- MythBusters - Crash and Burn Video
- MythBusters IMDB Page
- MythBusters - Crash and Burn Video
- Adam Savage Wikipedia Article
- MythBusters Interview - CBS News
- MythBusters Wikipedia Article
- IMDB IMDB2

KEY



Motorola Mobility
Enhanced Content Authoring Services

T

MOTOROLA

Team Motorola Mobility
Design Day

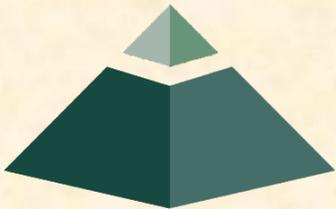
MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Team Raytheon

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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

Raytheon



http://www.raytheon.com/

Raytheon Company: Custome...



Raytheon

Contact Us | Connect With Us |

RTN ▲ 45.57 (+0.62)

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[Businesses](#)

[Capabilities](#)

[Corporate Responsibility](#)

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[Careers](#)

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[Eleven Raytheon Employees to Be Honored at 2011 BEYA Awards](#)

[Raytheon-sponsored Study Examines Global Math Learning](#)

[Wounded Warrior Project Expands With Raytheon Support](#)

[Time Names XOS 2 'Most Awesomest' Invention of 2010](#)

Raytheon

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[RACR Takes Flight With a Series of Successful Demonstrations](#)



[ELCAN's DigitalHunter Rifle Scope Hits the Mark](#)



[Raytheon-Boeing JAGM Team Verifies Rocket Motor During Flight Test](#)

Raytheon Insight »



[Raytheon Company Announces Agreement to Acquire Applied Signal Technology, Inc.](#)



[Raytheon's Support of the Armed Services](#)



[Raytheon Wins 2010 Safety Excellence Award From AIA](#)

Newsroom »

[Raytheon BBN Technologies Awarded Defense Funding to Advance Optical Communications and Imaging](#)
Posted: Tue, 21 Dec 2010 09:00:00 -0500

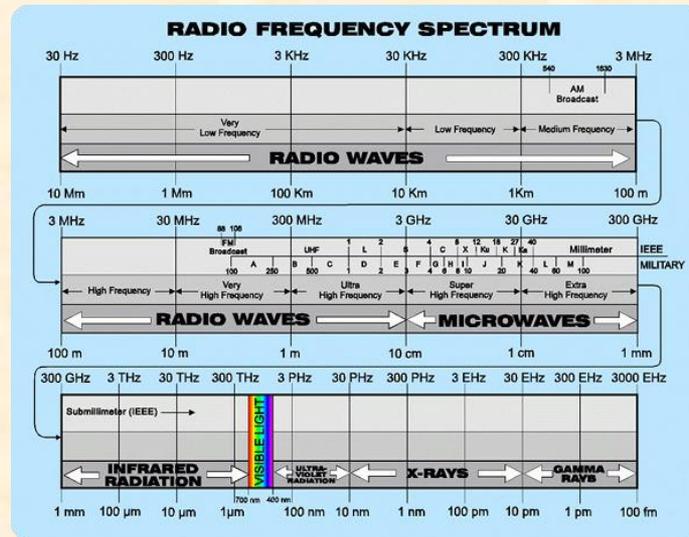
[Raytheon Company Announces Agreement to Acquire Applied Signal Technology, Inc.](#)
Posted: Mon, 20 Dec 2010 07:00:00 -0500

[Raytheon Intelligence-Sharing System Begins Operations at Ramstein Air Base, Germany](#)

Team Raytheon Project Overview

Radio Spectrum Analyzer for Mobile Platforms

- Optimize Use of Radio Frequency Spectrum
 - Identify and Analyze Used Frequency Ranges
 - Recommend Frequency Range to Use
 - To Maximize Bandwidth and Minimize Noise
 - For Tuning and Controlling Military Radios
 - Based on Spectrum Allocation Policies
- Design Features
 - User Interface
 - Manage Spectrum Allocation Policies
 - Display Frequency Usage and Assignments
 - Platform Independent
 - Embedded Platforms (e.g., Radios)
 - Android Smartphones
 - Laptops and iPad-Like Devices
 - Web Service to Manage Spectrum
 - Usage and Assignments
 - Allocation Policies
 - Interoperable with C
- Technologies
 - C, C++
 - Web Application Programming
 - Web Services
 - Raytheon TacLink® EZConnect™



Raytheon

The Capstone Experience





Will
Bonner

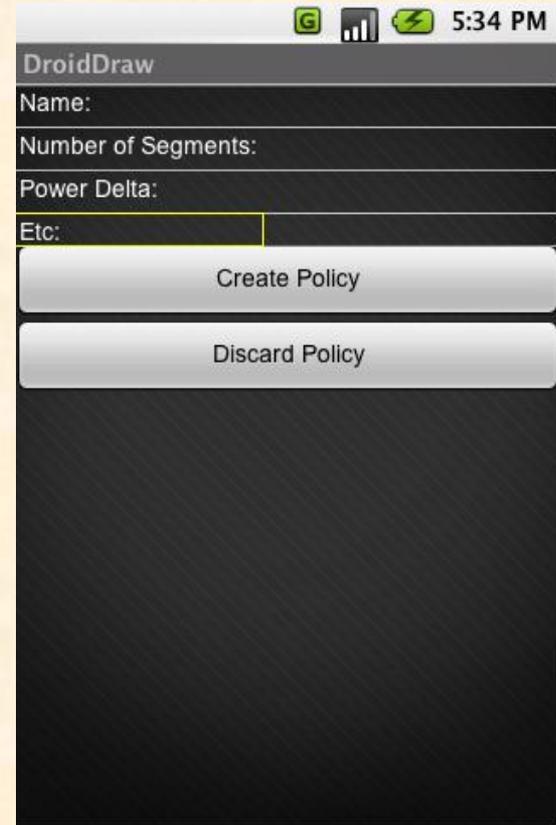
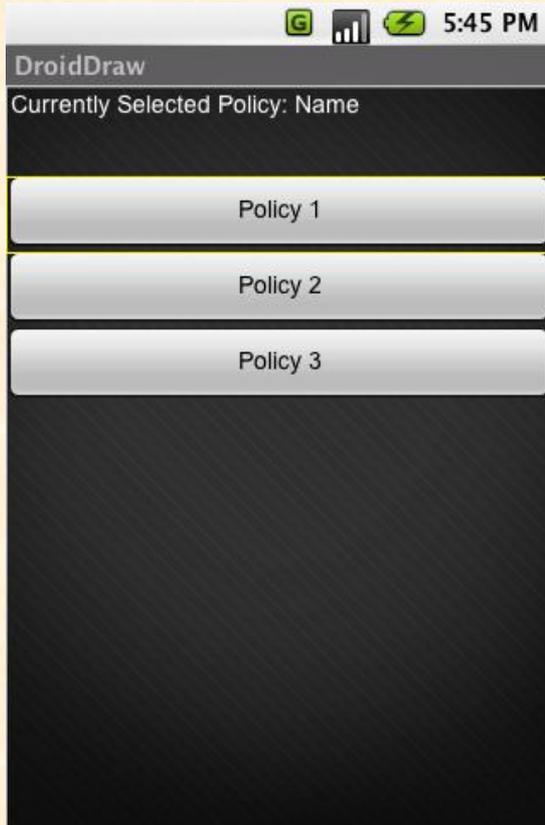
Matt
Bowser

Jimmy
Voss

Team Raytheon
Team Photo

Srinivasa
Settaluri

Team Raytheon Screen Mockup

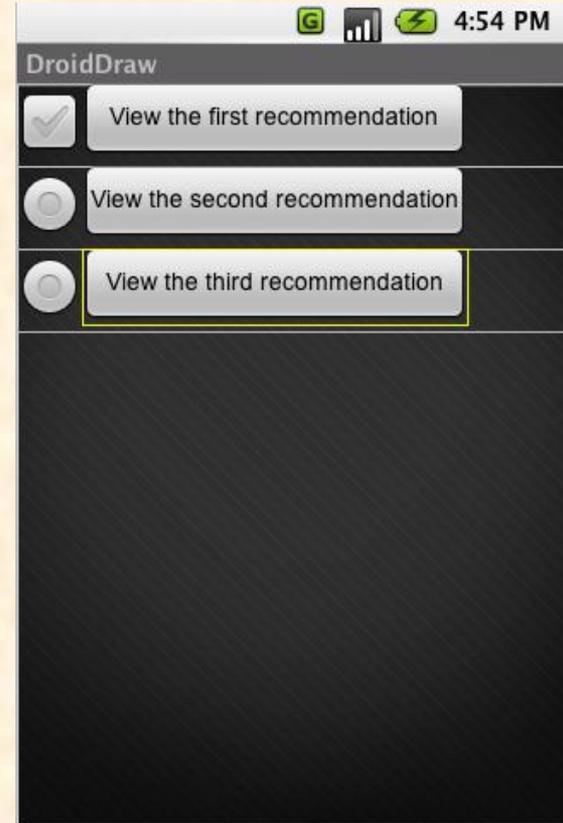
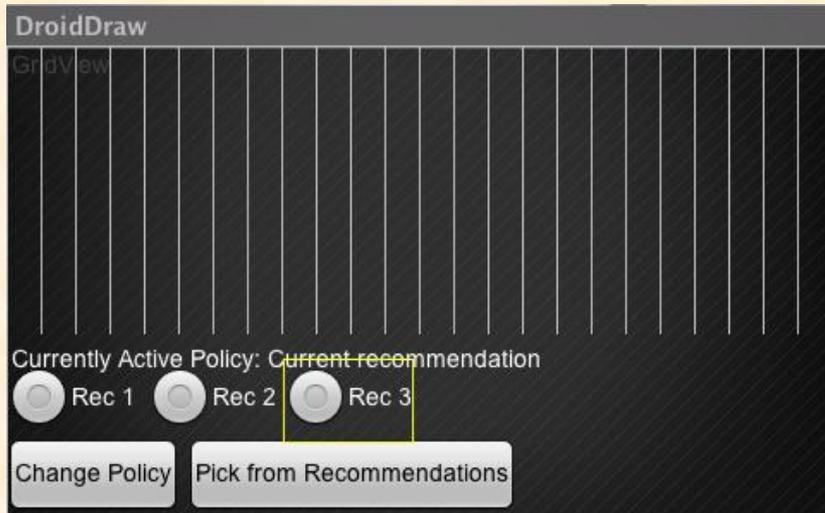


Screen Mockups

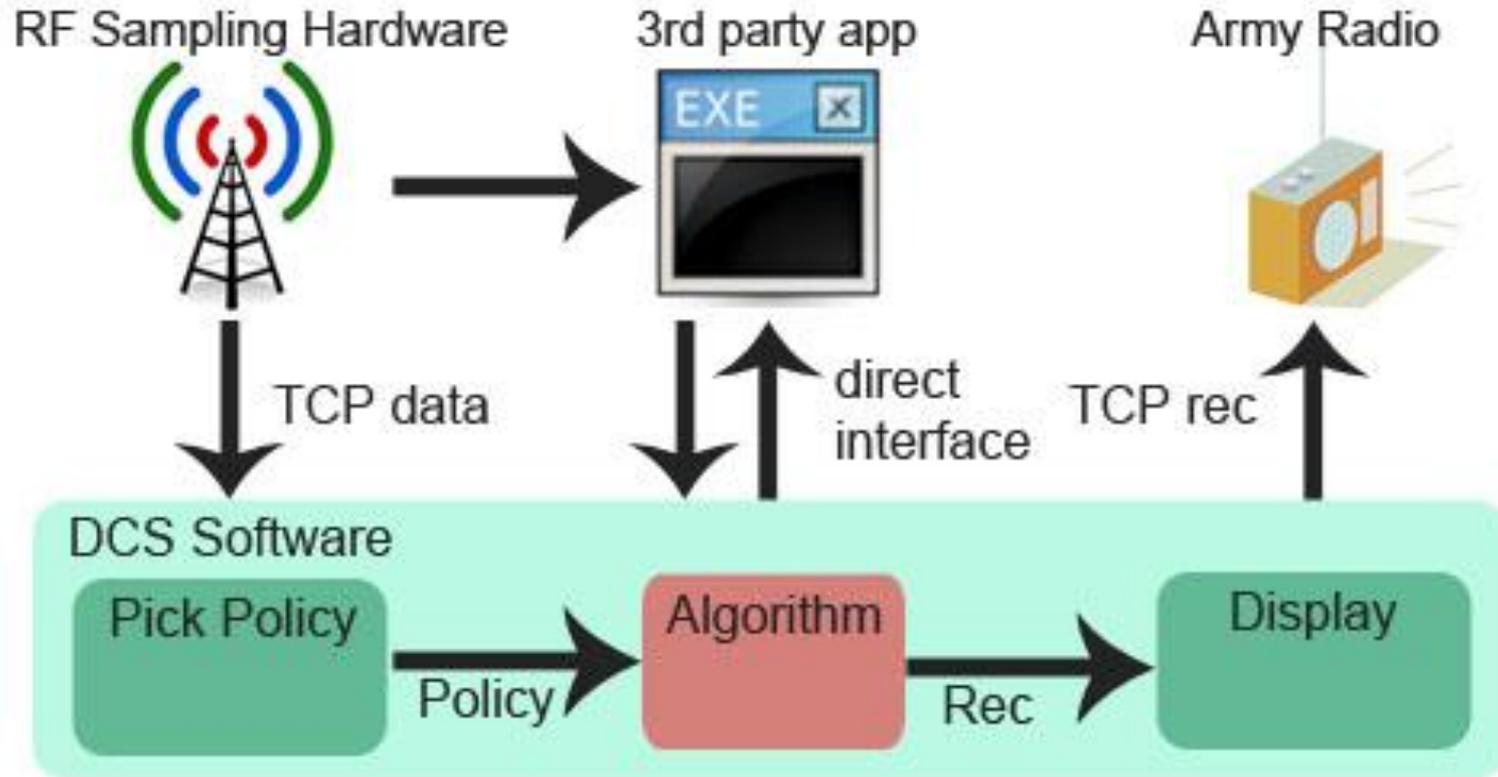


Team Raytheon
Project Plan Presentation

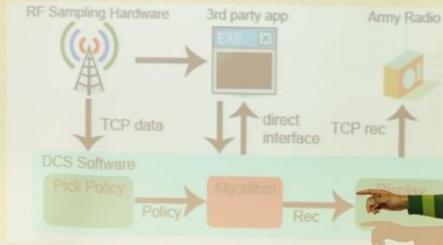
Team Raytheon Screen Mockup



Team Raytheon Architecture Diagram

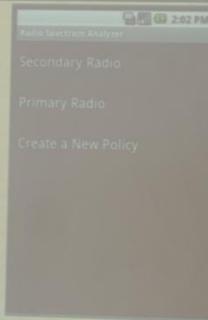


System Architecture



Team Raytheon
Project Plan Presentation

Policy Selection



Team Raytheon
Alpha Presentation

Team Raytheon Alpha Presentation

Policy Create/Edit

Radio Spectrum Analyzer

Creating a new Policy

Policy Name:

Minimum Sampling Frequency (500 - 3000 MHz):

Maximum Sampling Frequency (500 - 3000 MHz):

Tuning Bandwidth (10 - 100 MHz):

Number of Segments (1 - 12):

Radio Spectrum Analyzer

Segment Bandwidth (0.5-5.0):

Power Delta (0.01-0.99):

Base Power (-100.0-40):

Segment Spacing (0.1-1.5):

Create/Update Policy

Discard Policy



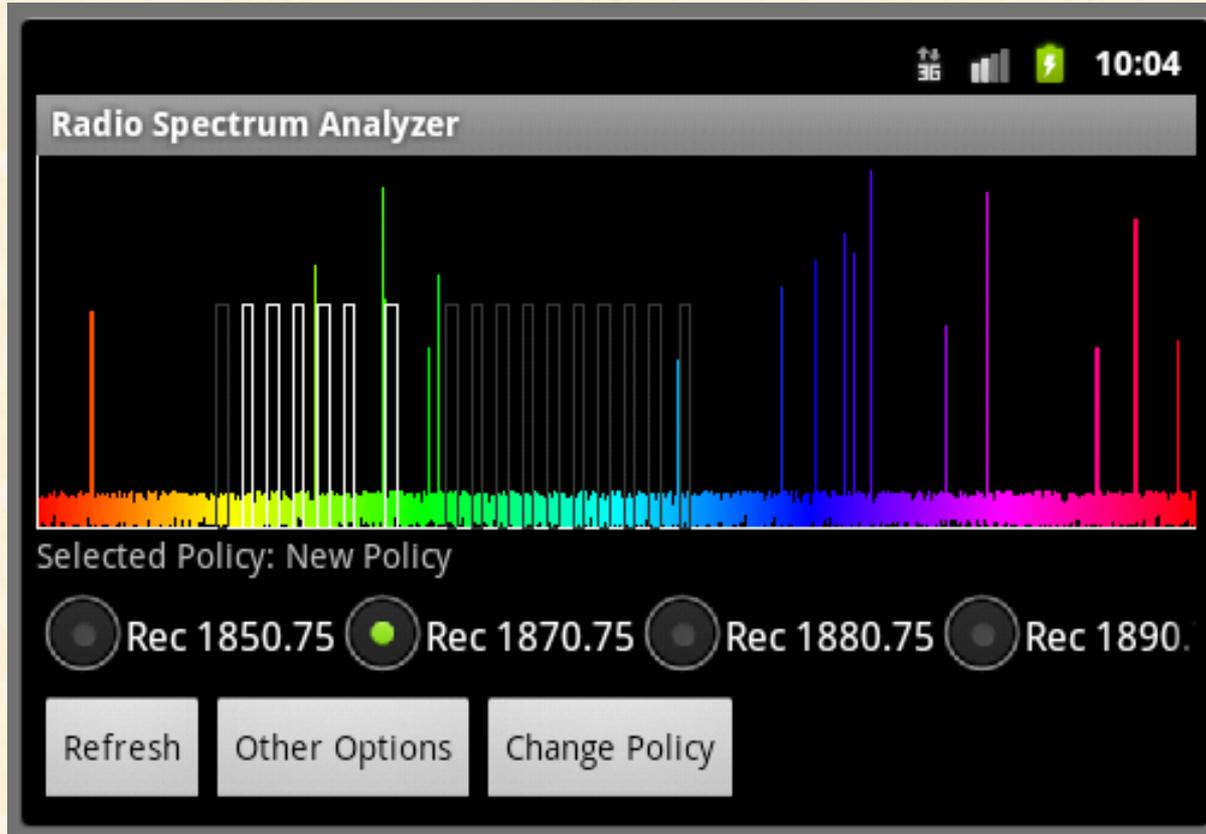
Policy Create/Edit

The image shows two side-by-side screenshots of a mobile application titled 'Radio Spectrum Analyzer'. The left screenshot is the 'New Policy' screen, featuring input fields for 'Policy Name', 'Minimum Sampling Frequency (Hz/MHz)' (with the value 1750), 'Maximum Sampling Frequency (Hz/MHz)' (with the value 1850), 'Current Bandwidth (MHz)' (with the value 20), and 'Number of Segments (Hz)' (with the value 5). The right screenshot is the 'Edit Policy' screen, showing fields for 'Policy Name' (with the value 20), 'Minimum Sampling Frequency (Hz/MHz)' (with the value 0.2), 'Maximum Sampling Frequency (Hz/MHz)' (with the value 2), 'Current Bandwidth (MHz)' (with the value 13), and 'Number of Segments (Hz)' (with the value 0.3). At the bottom of the right screenshot are two buttons: 'Create/Update Policy' and 'Discard Policy'. The application interface includes a status bar at the top with the time 9:52 and a footer with the text 'The Classroom Experience' and 'Team Raytheon Alpha - Powered on'.

Team Raytheon
Alpha Presentation

Team Raytheon Alpha Presentation

Spectrum View



Team Raytheon Beta Presentation

Edit and Create Radio Policies

Radio Spectrum Analyzer

Updating Policy: MIPS radio

Policy Name:

Minimum Sampling Frequency (500 - 3000 MHz):

Maximum Sampling Frequency (500 - 3000 MHz):

Tuning Bandwidth (10 - 100 MHz):

Create/Update Policy

Discard Policy

Radio Spectrum Analyzer

Updating Policy: MIPS radio

Number of Segments (1 - 12):

Power Level (1 - 50 dbm):

Segment Bandwidth (0.5-5.0):

Power Delta (0.01-0.99):

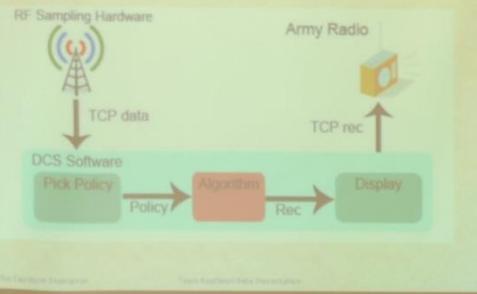
Base Power (-100.0-40):

Create/Update Policy

Discard Policy



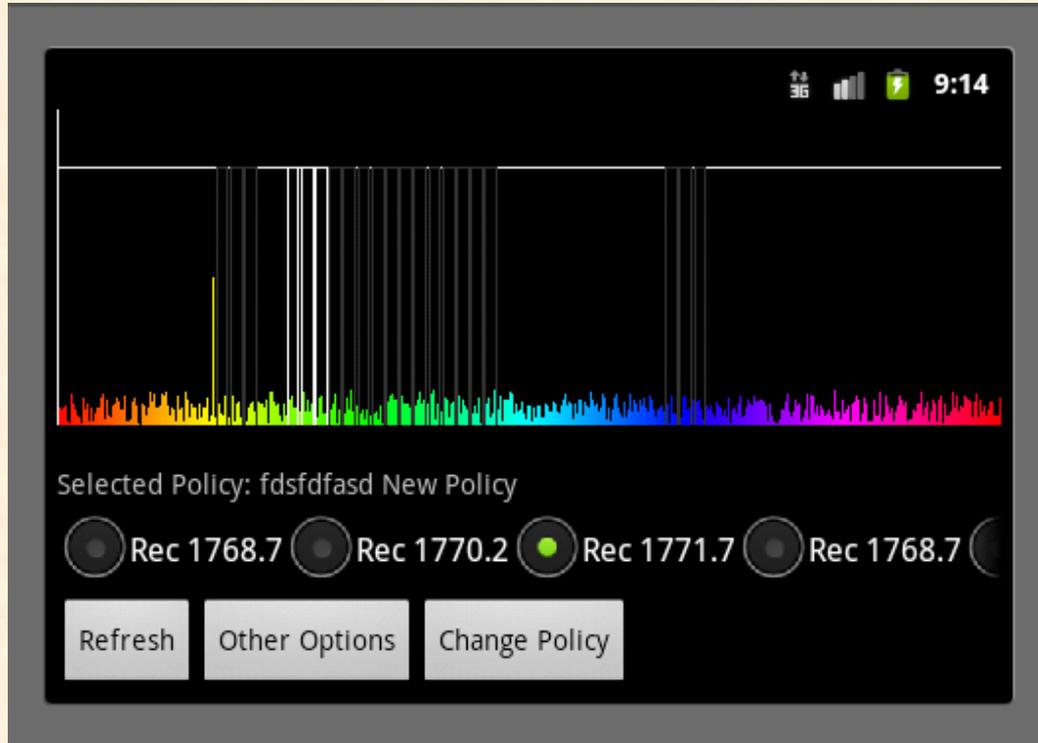
System Architecture

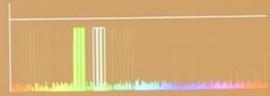


Team Raytheon
Beta Presentation

Team Raytheon Beta Presentation

View Radio Recommendation





Selected Policy: New Path
● Rec 1776.5 ● Rec 1781.3 ● Rec 1782.8 ● Rec 1784.3
[button] [button] [button]

Team Raytheon Beta Presentation



Raytheon Dynamic Spectrum Access for Network Radios

With proliferation of military radio communication systems, the need for coordinating resources between military units has never been greater. The radio spectrum is a limited resource, and the need for dynamic spectrum access (DSA) is increasing. Currently, radio broadcast frequencies have to be manually configured. We have created a program which automates and optimizes this process. This will ensure that communication is achieved in a secure and efficient manner. Our program runs on an Android smart phone which can be connected to a military radio, allowing the user to be alerted to nearby threats.

Our software pulls radio spectra from a military radio. With this data, a decision is made as to what radio frequencies are suitable for transmission. If nearby transmissions which are already in place on the air are detected, allowing the operator to tune into an existing radio network. If the radio operator wants to set up a new transmission on a channel already in use, program recommends a set of radio frequencies near which to broadcast, conforming to some minimal requirements established by the user. The user can scroll through all available broadcasting recommendations and select one of those recommendations to which to broadcast. Once the new broadcast is set up, other friendly radio operators can identify and tune to this same set of frequencies.

The algorithm used to generate broadcasting recommendations was coded originally from the hardware version. Raytheon currently owns the algorithm's code, allowing for future development of non-hardware dependent versions.



Raytheon



Team Raytheon Design Day

MICHIGAN STATE

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The Capstone Experience

Team Sparrow

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



Sparrow



You inspire us

Our bold vision to be a national leader in quality and patient experience is inspired by our families, neighbors and the people of mid-Michigan.

[▶ See our latest advertising campaign](#)



MySparrow

Pay your bill. Refill a prescription. Ask a question. Get things done.

- ▶ [For Patients](#)
- ▶ [For Physicians](#)
- ▶ [For Associates](#)

[Our services: quick view](#)

Latest news

Lansing woman looks forward to Christmas at home after Sparrow surgeons save hand | December 16, 2010

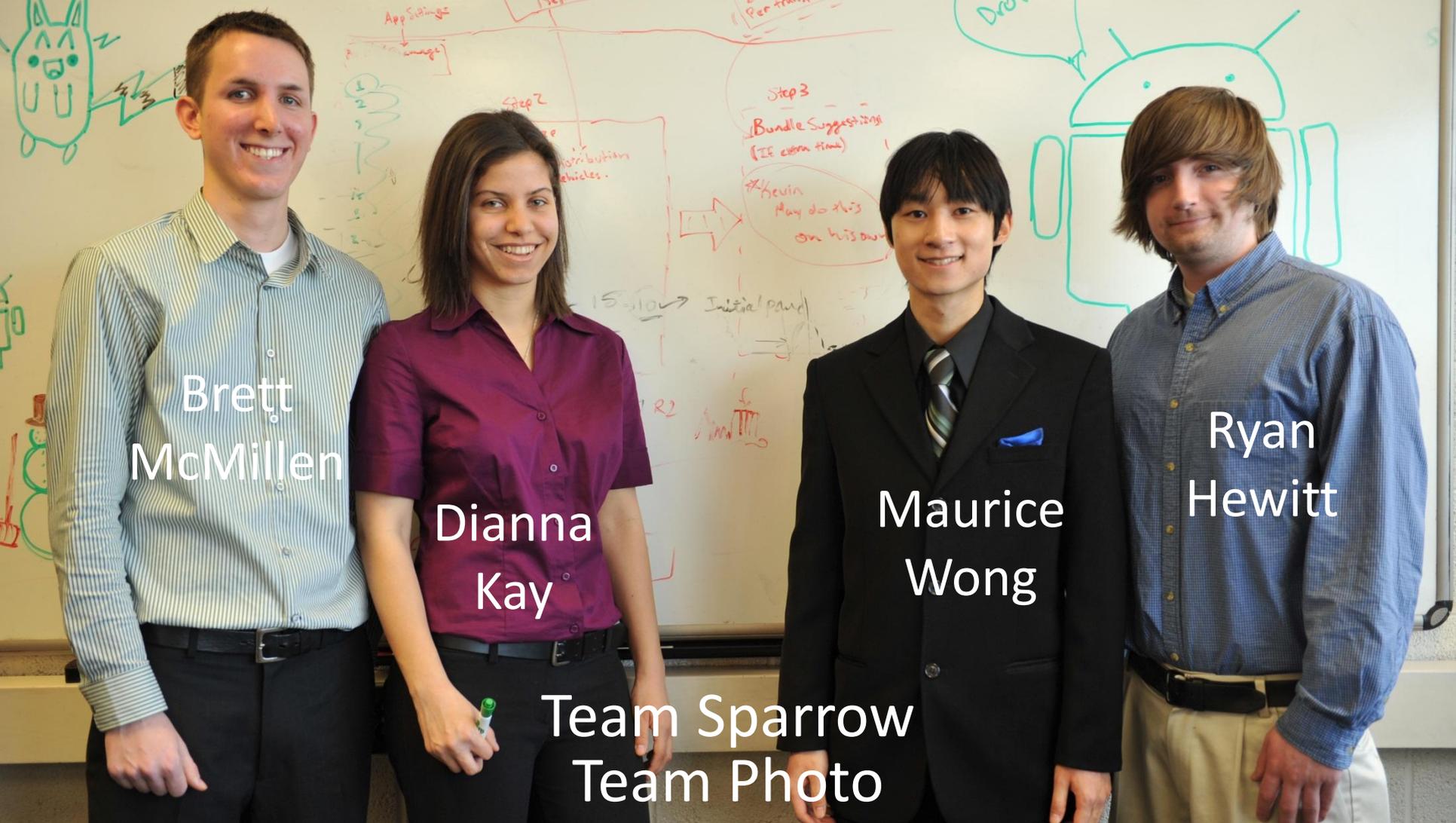
Team Sparrow

Project Overview

iSupport Center

- Medical Informatics at Sparrow
 - 400+ Applications and Systems
 - Patient Medical Information
 - Schedules (Doctors, Patients, Operating Rooms)
 - Etc.
 - Delivery Critical (Matter of Life and Death)
 - Accurately, Timely, and Securely
 - Anytime and Anywhere
- iSupport Center
 - Manage IT Systems and Services
 - Improve Reliability and Response Time
 - Features
 - Catalogue
 - Maintain Licensing and Updates
 - Report, Assign, Track, and Resolve Problems
 - Etc.
- Technologies
 - Microsoft .NET
 - Microsoft SharePoint
 - Microsoft SQL Server
 - Symantec Altris Management Suites
 - Under Construction



A group of four people, three men and one woman, are standing in front of a whiteboard. The whiteboard contains various diagrams and drawings, including a cartoon cat on the left, a large Android robot on the right, and several flowcharts and notes in red and green. The notes include 'App Settings', 'Per train', 'Step 2', 'Bundle Suggestions (IE extra time)', 'Kevin may do this on his own', and 'Initial part'. The people are dressed in business casual attire. The names of the team members are overlaid on the image in white text.

Brett
McMillen

Dianna
Kay

Maurice
Wong

Ryan
Hewitt

Team Sparrow
Team Photo

Team Sparrow Screen Mockup

Incidents

- [Forgot password](#)
- [Computer exploded](#)
- [Network virus](#)
- [Printer broken](#)
- [Gibson being hacked](#)

Application Search

[Advanced Search](#)

Reporting

Facility Maps

Floors: [1st](#) | [2nd](#) | [3rd](#) | [4th](#) | [5th](#) | [6th](#) | [7th](#)



Links

Functional Specifications

- Application Search
 - Problem
 - Information overload
 - Solution
 - Simple user interface
 - jQuery auto complete
 - Extended search
 - Alternate search suggestions

The Capstone Experience

Team Sparrow: Project Plan

Team Sparrow
Project Plan Presentation

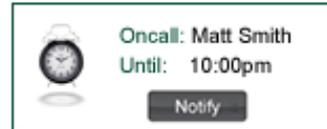
Team Sparrow Screen Mockup

 Sparrow Support

Dianna Kay | [Sign Out](#)

Microsoft Office

Original author(s) Microsoft
Developer(s) Microsoft
Initial release 2010
Stable release 2010 (14.0.5128.5000) / October 26, 2010; 2 months ago
Written in C++
Operating system Microsoft Windows
Available in Over 35 languages
Type Office suite
License Proprietary
Website office.microsoft.com



Oncall: Matt Smith
Until: 10:00pm

Notify

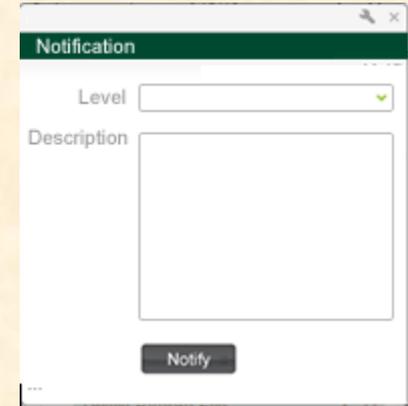


Calendar

Agenda Week Month

<< April 2008 >>

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



Notification

Level

Description

Notify

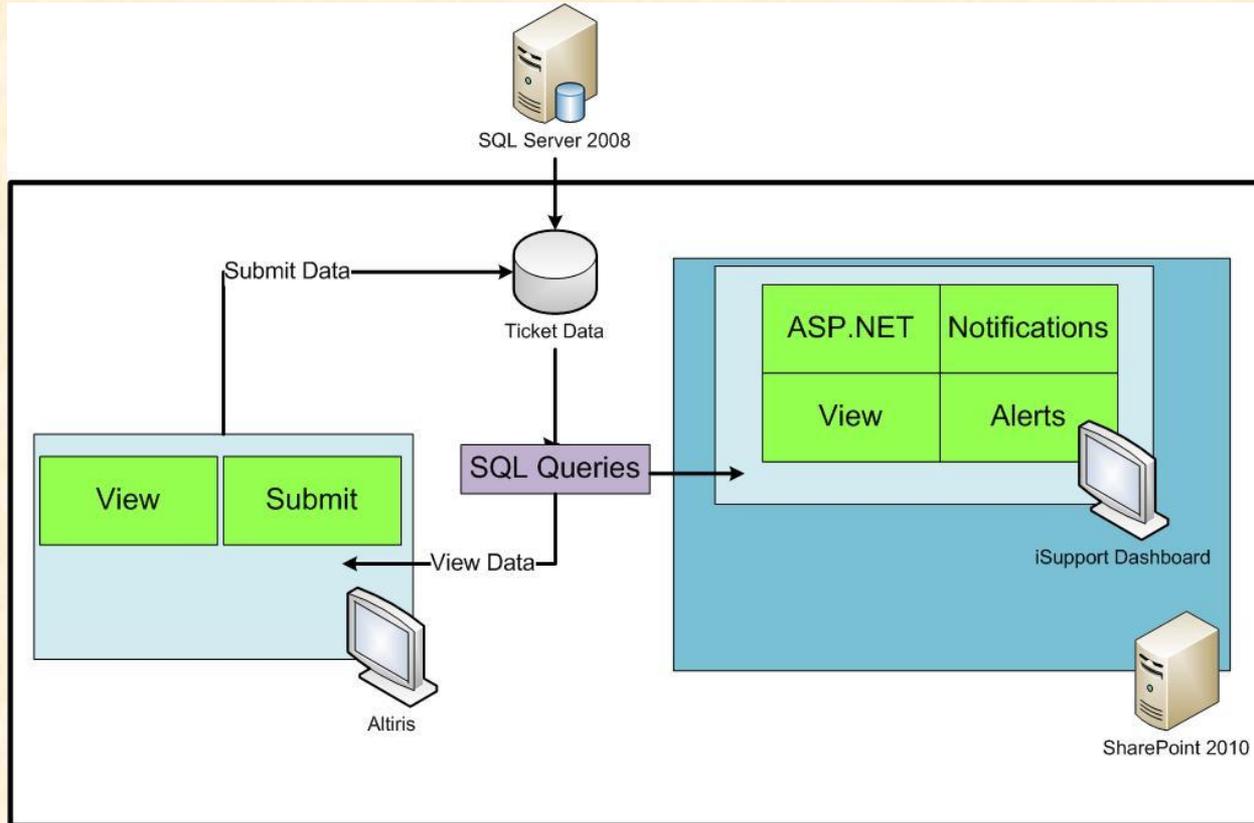


Level 5 Alert 02:07

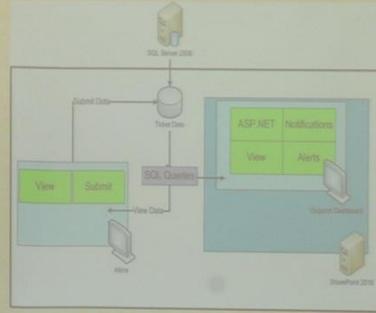
☆ a

A computer blew up on floor 6. Urgent printing needs.

Team Sparrow Architecture Diagram



System Architecture



The Capstone Experience Team Sparrow Project Plan 10

Team Sparrow
Project Plan Presentation

Team Sparrow Alpha Presentation

iSupport Dashboard

iSupport Center Welcome CAPSTONEMSU\sparrow

[Home](#) Site Actions

iSupport Center > isupport-dashboard

iSupport Dashboard

Development site for iSupport

Incidents

Donnys says the backup generators are failing and we are losing power to the hospital!
The SPARROWdata.net system is infected with wormblaster32 trojan
The phone is down on the terrace floor, fix it asap
Help with putting Windows XP sp3 on my dekstop workstation computer.
Help me with my password, this machine is broken. Computers are so confusing!
Need two extra sticks of PC3-5200 8-8-8-4 timed ram!

Application Search

Facility Map

Floors: Search (by ipAddress):

Map Satellite Hybrid

Map data ©2011 Google - Terms of Use

Calendar

< February 2011 >

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

[View Calendar](#)

Help Desk Reports

Number of Tickets/Level Reported

Level 1: 3
Level 2: 23
Level 3: 4

Time Since...

Last Ticket: 0 days 11 hours 7 minutes and 1
Last Level 1 Ticket: 0 days 11 hours 9 minutes and 12



Team Sparrow
Alpha Presentation

Team Sparrow Alpha Presentation

Incident List

iSupport Dashboard

Development site for iSupport

Incidents

Donnys says the backup generators are failing and we are losing power to the hospital!

The SPARROWdata.net system is infected with wormblaster32 trojan

The phone is down on the terrace floor, fix it asap

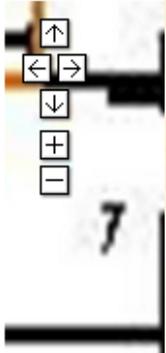
Help with putting Windows XP sp3 on my dekstop workstation computer.

Help me with my password, this machine is broken. Computers are so confusing!

Need two extra sticks of PC3-5200 8-8-8-4 timed ram!

Application S

Ne|
Network
Internet



editIncidents

Welcome System Account

iSupport Center

Search this site...

Home Site Actions

iSupport Center > editIncidents

Incident Information

Development site for iSupport

Incident	
ID:	1337
Source:	unicenter
Category:	Break-Fix
Assigned To Worker ID:	1337
Created By Worker ID:	1337
Modified By Worker ID:	1337
Created On:	2/20/2011 11:34:12 AM
Minutes Spent:	1
Action:	Edit
Title:	Donnys says the backup generators are failing and we are losing power to the hospital!
Comment:	Terribly important, need to be addressed immediately. People need our services!
Owned By Worker ID:	1337
Impact Lookup ID:	100

[View Ticket Log](#)

Team Sparrow Alpha Presentation

On-Call Calendar

Calendar

February 2011

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

View Calendar

Help Desk Reports
Number of Tickets/Level Reported

New Actions Settings View: Calendar

February, 2011 Expand All Collapse All Day Week Month

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4	5
6	7	8	9	10	11	12 7:00 PM CAPSTONEMSU\danni
13	14	15	16	17	18	19
20 8:00 PM Maurice B. Wong	21	22	23 7:00 PM Maurice B. Wong	24	25	26 7:00 PM CAPSTONEMSU\ryan
27	28	1	2	3	4	5 8:00 PM CAPSTONEMSU\ryan





Team Sparrow
Alpha Presentation

Team Sparrow Beta Presentation

iSupport Dashboard

Home ?

My Incidents

[55556] | The SPARROWdata.net system is infected with wormblaster32 trojan

[60000] | Ebola virus escaped our quarantine facilities, head for evacuation chambers.

[56123] | The phone is down on the terrace floor, fix it asap

[87087] | Breakout of the flu, need all personnel machine desanitized on floors 3 and 4.

[95959] | Zone31100bldg3flPPFS-EC2000/CA: This is just a test to see how long I can ...

[Previous](#) | [Next](#) ->
View Group Members' Incidents
Last Updated: Sun Apr 3 21:24:34 PDT 2011

Links

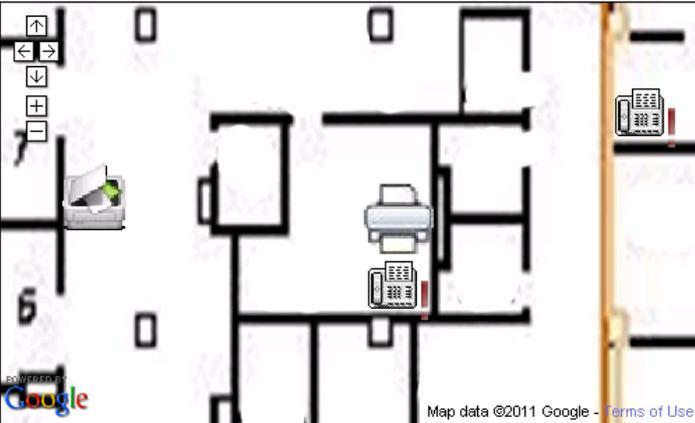
- [FAQ's Page](#)
- [Reports](#)

Application Locator

Search:

Facility Map

Floors: Search: Search ?



Map data ©2011 Google - [Terms of Use](#)

On-Call Calendar

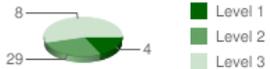
April, 2011

S	M	T	W	T	F	S
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Calendar details:
April 29: 10:00
April 30: 6:00
May 1: 8:00
May 2: 3:00
May 3: 7:00
May 4: 1:00
May 5: 5:00

Help Desk Reports

Number of Tickets Today



Level	Count
Level 1	8
Level 2	29
Level 3	4



Team Sparrow Beta Presentation

Team Sparrow Beta Presentation

My Incidents

[55556] | The SPARROWdata.net system is infected with wormblaster32 trojan

[60000] | Ebola virus escaped our quarantine facilities, head for evacuation chambers.

[56123] | The phone is down on the terrace floor, fix it asap

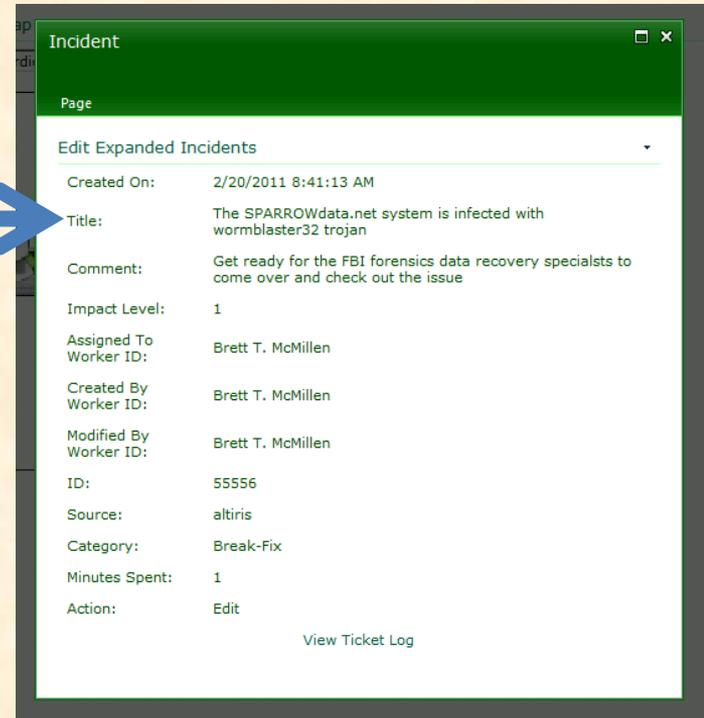
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[95959] | Zone31100bldg3flPFS-EC2000/CA: This is just a test to see how long i can ...

[Previous](#) | [Next](#) ->

View Group Members' Incidents

Last Updated: Sun Apr 3 21:24:34 PDT 2011



Incident	
Page	
Edit Expanded Incidents	
Created On:	2/20/2011 8:41:13 AM
Title:	The SPARROWdata.net system is infected with wormblaster32 trojan
Comment:	Get ready for the FBI forensics data recovery specialists to come over and check out the issue
Impact Level:	1
Assigned To Worker ID:	Brett T. McMillen
Created By Worker ID:	Brett T. McMillen
Modified By Worker ID:	Brett T. McMillen
ID:	55556
Source:	altiris
Category:	Break-Fix
Minutes Spent:	1
Action:	Edit
View Ticket Log	

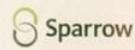


Team Sparrow Beta Presentation



Sparrow Health System iSupport Center

There are two options for the iSupport Center, a website or a dedicated kiosk. The website option is the most cost-effective and allows for easy updates. The kiosk option is more expensive but provides a dedicated space for users. The website option is the most flexible and allows for easy updates. The kiosk option is more expensive but provides a dedicated space for users.



Member Benefits Overview

Member Benefits Overview

- Health Insurance
- Dental Insurance
- Vision Insurance
- Life Insurance
- Disability Insurance
- Employee Assistance Program
- Flexible Spending Account
- Health Savings Account
- Employee Stock Purchase Plan
- Employee Stock Ownership Plan
- Employee Loan Program
- Employee Tuition Reimbursement
- Employee Child Care Reimbursement
- Employee Transportation Reimbursement
- Employee Relocation Assistance
- Employee Severance Pay
- Employee Retirement Plan
- Employee Pension Plan
- Employee Profit Sharing Plan
- Employee 401(k) Plan
- Employee 403(b) Plan
- Employee 529 Plan
- Employee 528 Plan
- Employee 529C Plan
- Employee 529D Plan
- Employee 529E Plan
- Employee 529F Plan
- Employee 529G Plan
- Employee 529H Plan
- Employee 529I Plan
- Employee 529J Plan
- Employee 529K Plan
- Employee 529L Plan
- Employee 529M Plan
- Employee 529N Plan
- Employee 529O Plan
- Employee 529P Plan
- Employee 529Q Plan
- Employee 529R Plan
- Employee 529S Plan
- Employee 529T Plan
- Employee 529U Plan
- Employee 529V Plan
- Employee 529W Plan
- Employee 529X Plan
- Employee 529Y Plan
- Employee 529Z Plan



Team Sparrow
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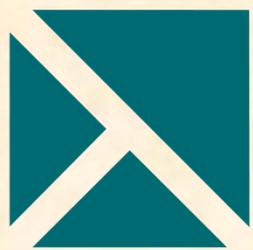
The Capstone Experience

Team TechSmith

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



TechSmith®

- TechSmith**
- Snagit
- Jing
- Camtasia Studio
- Camtasia for Mac
- Camtasia Relay
- Screencast.com
- Morae



Tec

We create recording, communication, and presentation software that helps you work effectively and conduct market research.

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

- Online Store
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- 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](#)

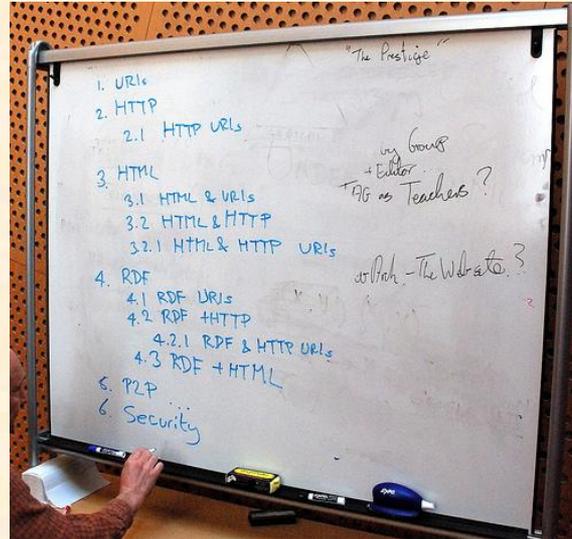
Learning & Support

- [Tutorials](#)
- [Documentation](#)

Team TechSmith Project Overview

WhiteCaps: Mobile Whiteboard Capture Solution

- TechSmith Screen Capture Solutions
 - Jing
 - Snagit
 - Camtasia
- Whiteboard Capture Solution
 - Capture, Annotate and Share
 - Via Mobile Phone and the Cloud
- Features
 - User Accounts
 - Upload, Share, Annotate, and View
 - Contextual Metadata
 - Location, Date, and Time
 - QR (Quick Response) Codes
 - Content History and Notifications
 - Photo Deskewing and Stitching
- Technologies
 - Apple iOS iPhone SDK, C, Objective-C
 - Google Android SDK, Java
 - Microsoft .NET, C#, WPF
 - Microsoft Azure Cloud Computing and Web Services



A group photo of four people standing in front of a wall with a large screen displaying the TechSmith logo. From left to right: a man in a light green shirt, a man in a dark red shirt and tie, a woman in a dark patterned top, and a man in a dark blue shirt. The background features a wall with a large screen showing the TechSmith logo and a window to the right.

Dillon
Walls

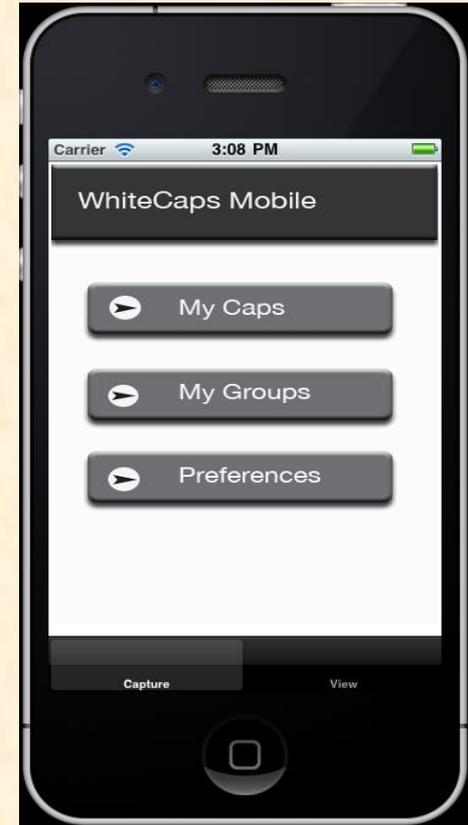
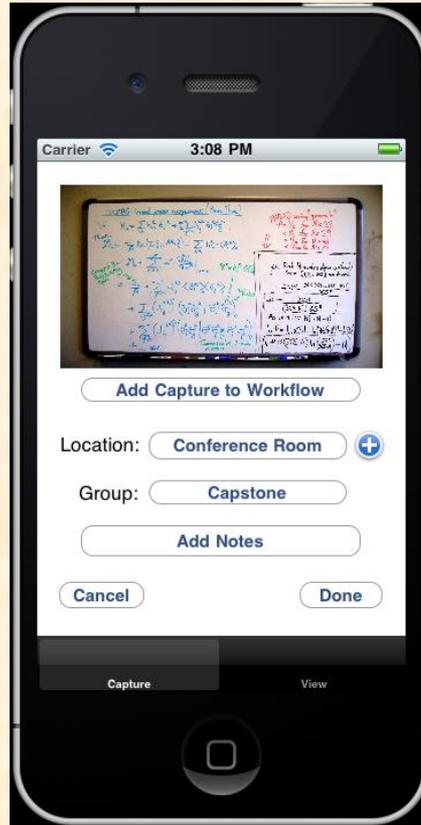
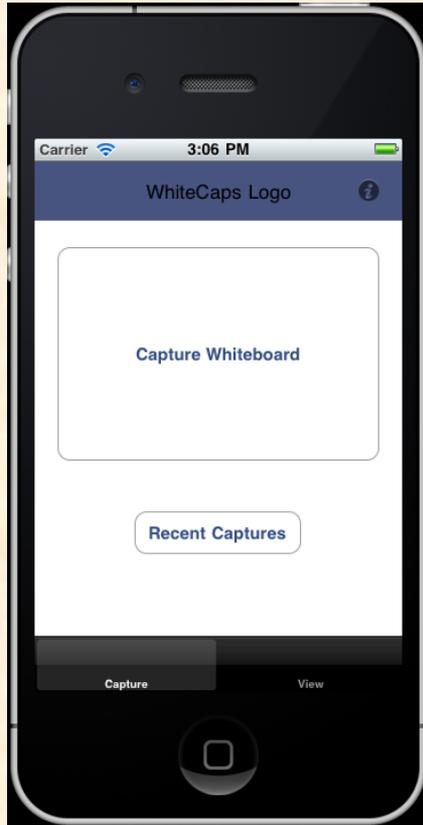
Rob
Allie

Cassi
Miller

Matt
Dobson

Team TechSmith
Team Photo

Team TechSmith Screen Mockups

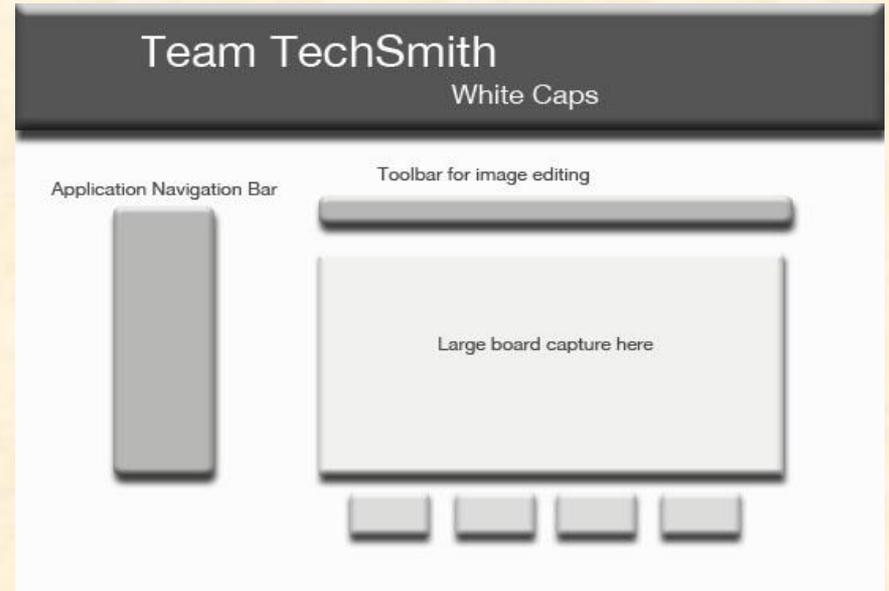
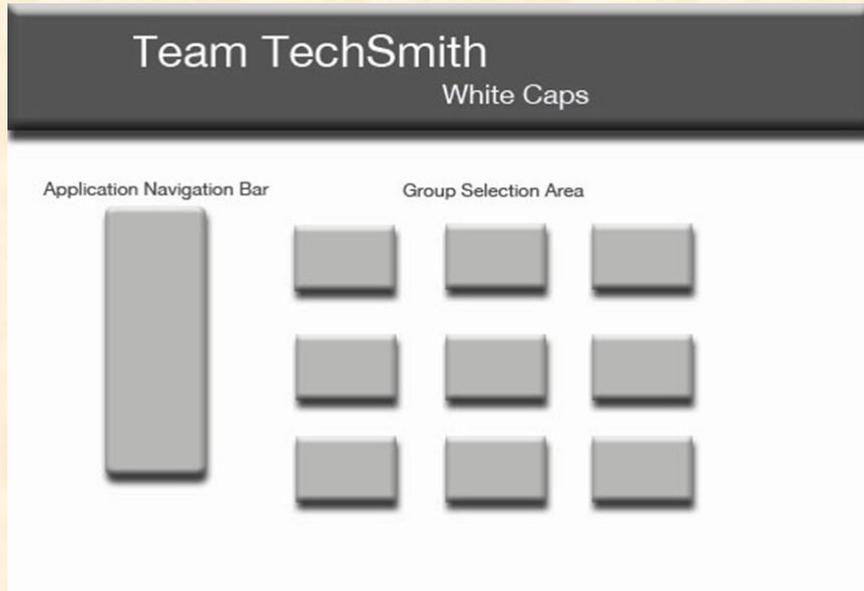


Screen Mockups

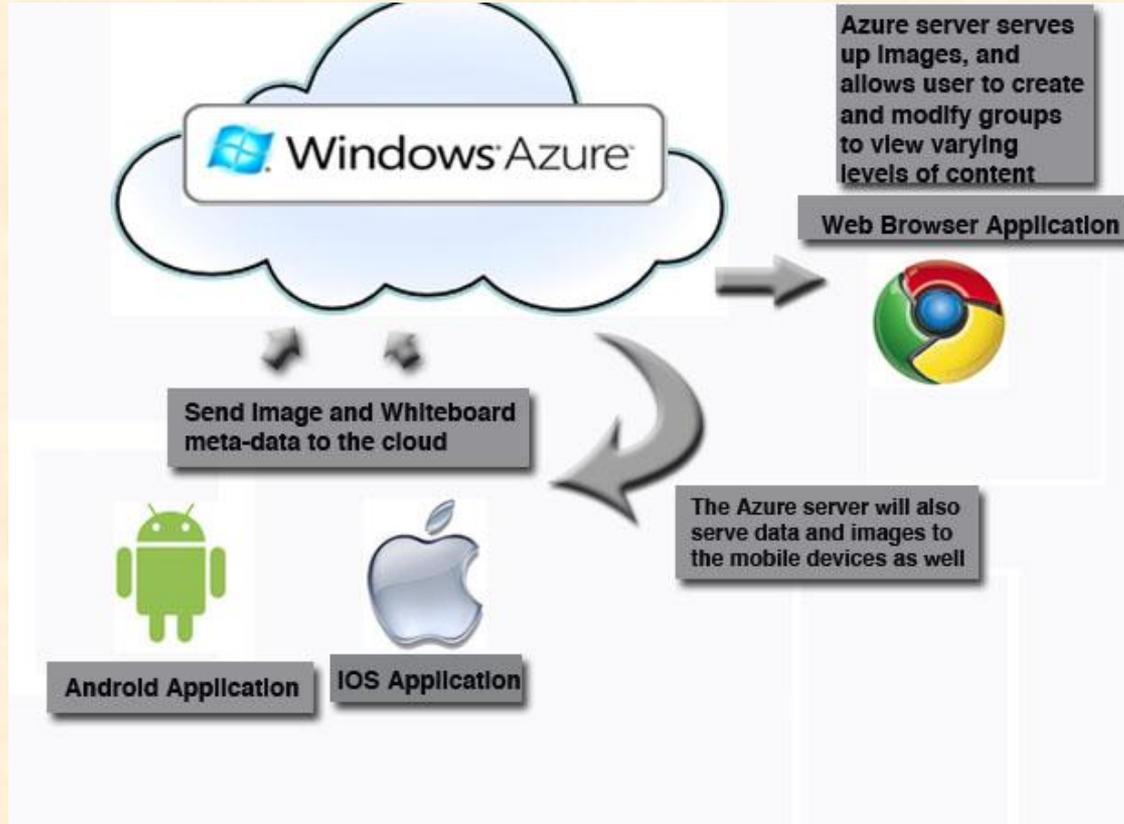


Team TechSmith
Project Plan Presentation

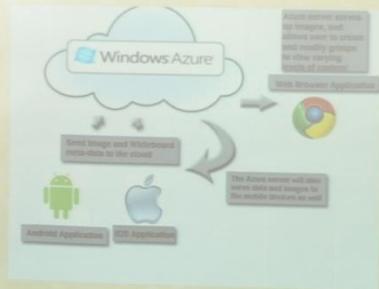
Team TechSmith Screen Mockups



Team TechSmith Architecture Diagram



System Architecture



The Customer Experience
Team TechSmith Project Plan

Team TechSmith
Project Plan Presentation

Project Overview

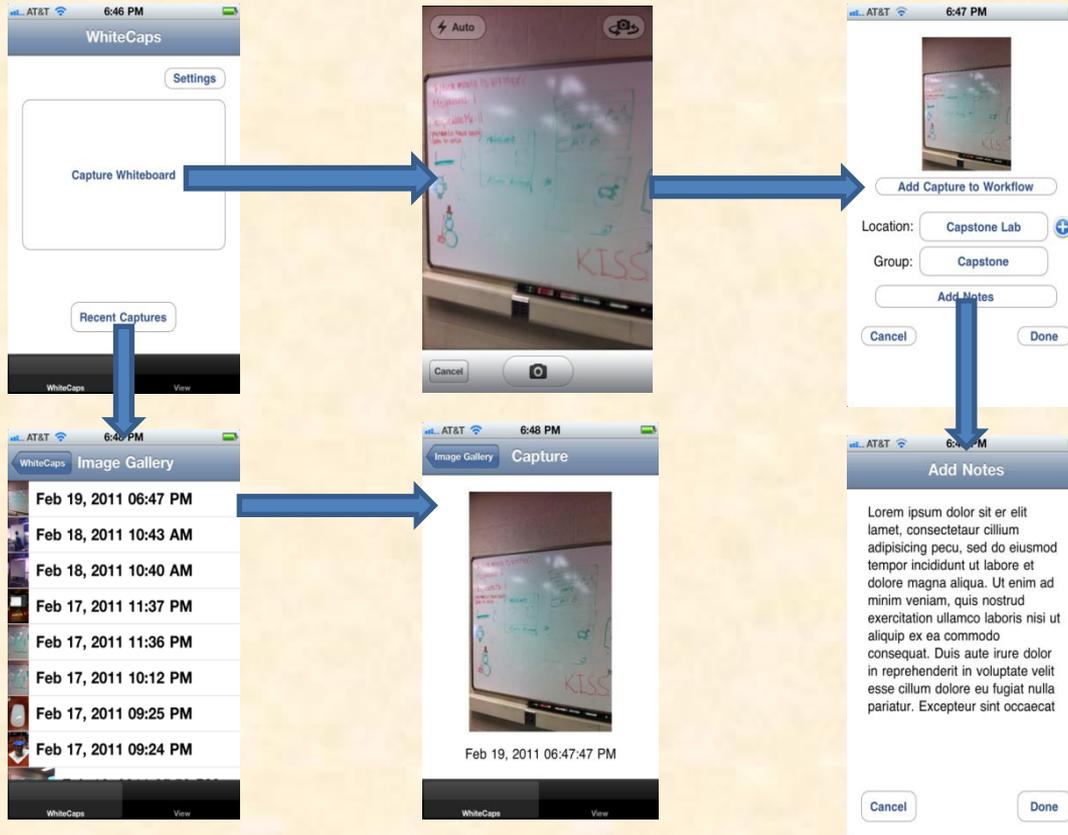
- WhiteCaps
- Mobile devices that capture whiteboards and other information
- Cloud to hold whiteboard images and metadata
- Web client to manage user profiles and whiteboard captures and sync to the cloud

© 2010 TechSmith Corporation

Team TechSmith
Alpha Presentation

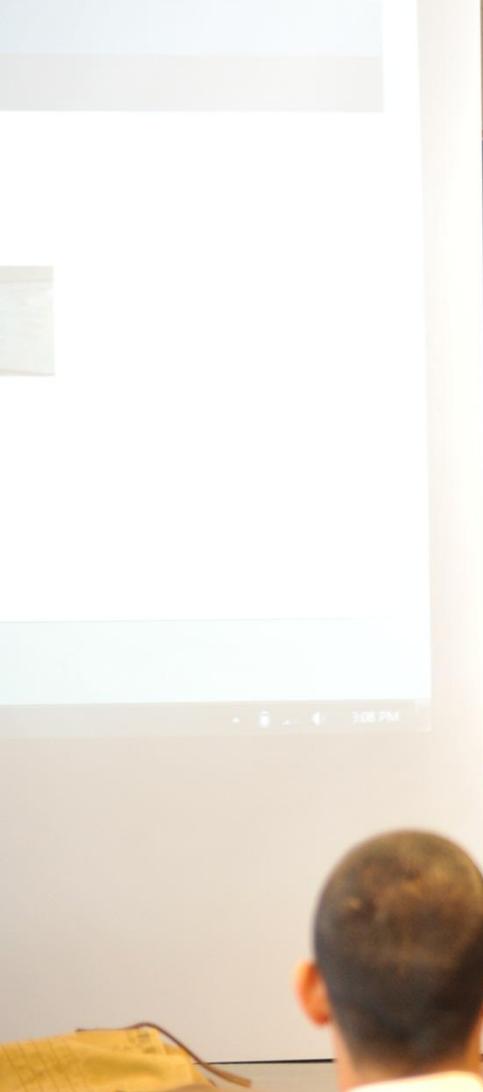
Team TechSmith Alpha Presentation

WhiteCaps Use Case



Whitecaps
demo

Team TechSmith
Alpha Presentation





White Caps

WhiteCaps

- Customized whitecaps
- Fast loading
- User friendly

Whitecaps
demo

Team TechSmith
Alpha Presentation

Team TechSmith Alpha Presentation

Browse Single Group

WHITECAPS

Home About

GROUP DISPLAY

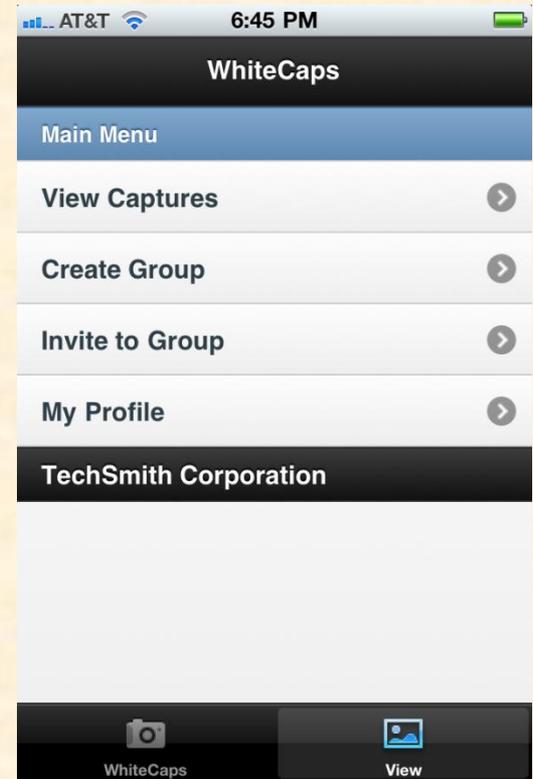
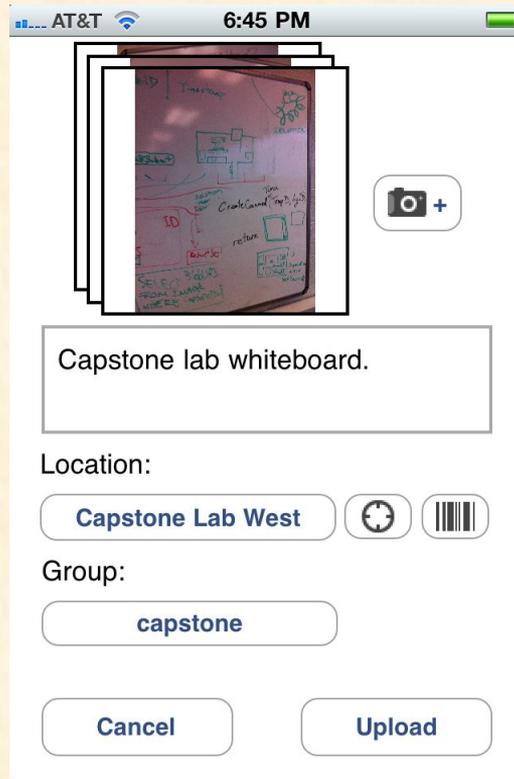
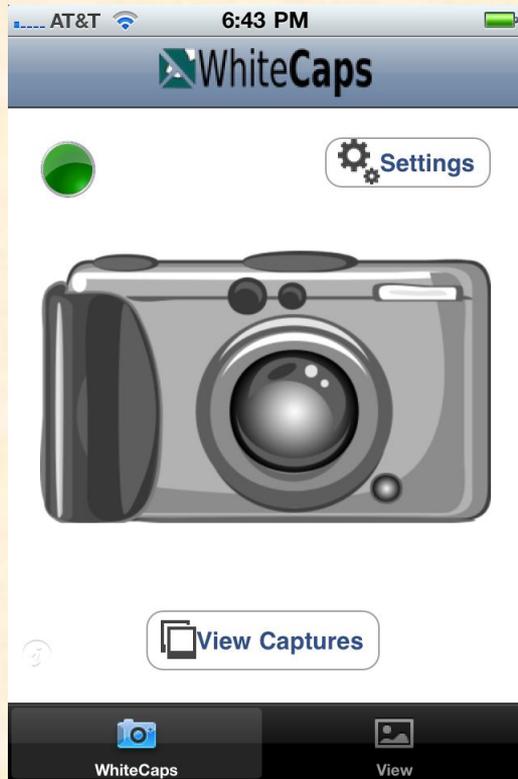


The screenshot shows a web application interface for 'WHITECAPS'. It features a dark blue header with the brand name and a navigation menu with 'Home' and 'About' links. Below the header, the main content area is titled 'GROUP DISPLAY' and contains a 2x3 grid of six square images. The images are: a close-up of a red flower, a desert landscape with a rock formation, a white hydrangea flower, a jellyfish, a koala, and a field of yellow tulips.



Team TechSmith Beta Presentation

iPhone App





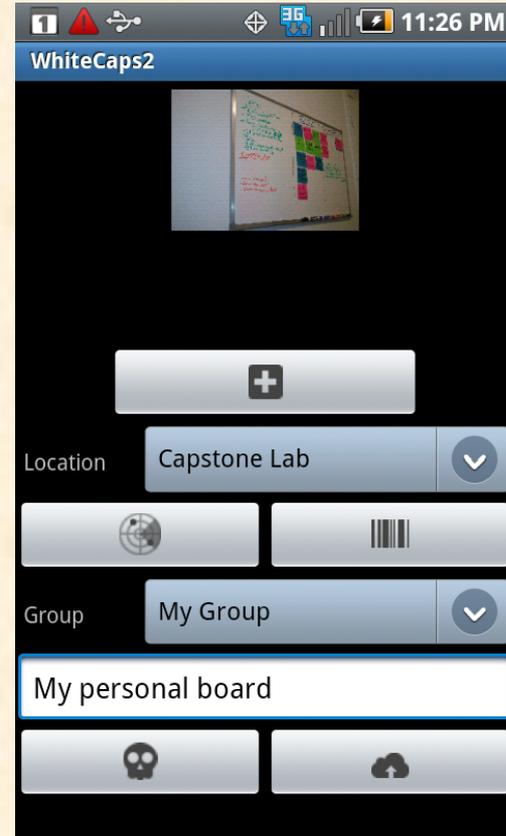
Team TechSmith Beta Presentation



Team TechSmith Beta Presentation

Team TechSmith Beta Presentation

Android App



The Capstone Experience





Team TechSmith
Beta Presentation

TechSmith WhiteCaps Mobile Whiteboard Capture Solution

Software developers can use whiteboards to brainstorm and document colorful diagrams and ideas. These ideas usually end up getting stored in one TechSmith camera or with a Mobile Whiteboard Capture Solution in which a person can snap a picture of a whiteboard and have that picture automatically saved and organized in the cloud to be searched later. The goal of this project is to allow TechSmith employees, as well as the general public, to use whiteboards to collaborate and share information more easily.

This project includes a web application as well as mobile applications for the iPhone and Android devices. Users of the mobile app have the ability to take pictures which will automatically be uploaded to the cloud. Users are able to add metadata such as locations, group names, and notes to whiteboard captures. They can request and share their captures with other users or groups of users. All whiteboard captures and user profiles can be accessed on the web application from either the mobile phone or computer where users can add metadata, manage captures, search or browse through captures, and manage user groups and profiles.

The web application is developed in C# using the .NET 4.5 framework and Windows Azure SQL. The iPhone application is developed in Objective-C using Xcode 5.0.1, and the Android application is developed in Java using the Android SDK. The application uses Azure Cloud Services for web hosting and data storage.



TechSmith



Team TechSmith Design Day

MICHIGAN STATE

UNIVERSITY

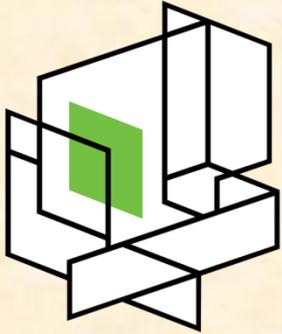
The Capstone Experience

Team Urban Science

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



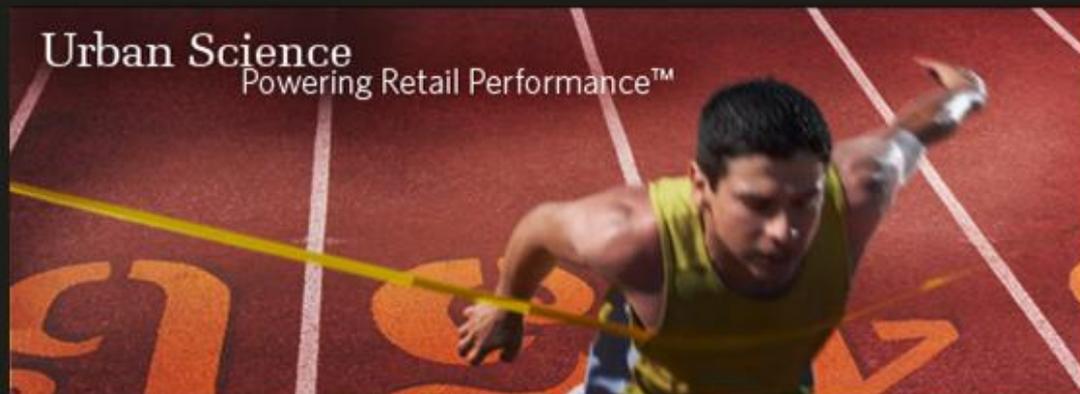
URBAN SCIENCE™



URBAN SCIENCE

[SOLUTIONS](#)[RESULTS](#)[NEWS & EVENTS](#)[ABOUT US](#)[CAREERS](#)

Search



Urban Science
Powering Retail Performance™

To achieve extraordinary results, you need to look beyond the obvious. Urban Science can help.

At Urban Science we live and breathe the simple concept that [successful retail operations](#) are all about location, performance and satisfied customers. To bring this idea to life, we create and analyze market and consumer data like no one else.

Using a unique combination of analytics, proprietary software and [experience](#), we help our automotive and retail clients plan effectively, define and measure performance, and develop sales and marketing programs that deliver results.

[Solutions](#)[Results](#)

Latest News:

Urban Science tells 1to1 Weekly that orphaned customers can be a real opportunity... [Read more...](#)

Urban Science data featured in USA Today [Read more...](#)

Contact Us

1.800.321.6900 [EMAIL](#)

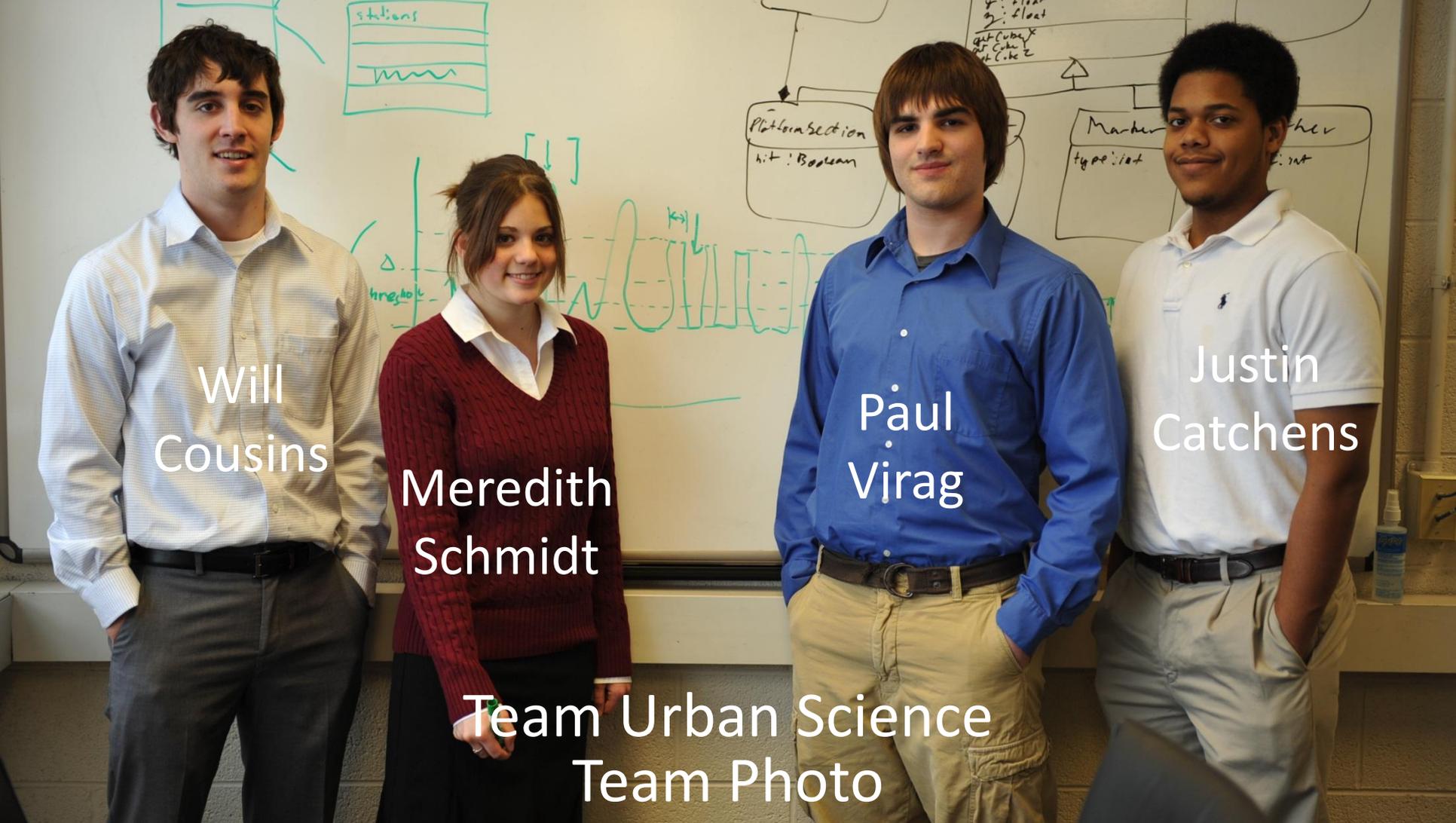
Team TechSmith Project Overview

Bringing LeadVision to the Web

- LeadTV
 - Visualization of Automotive Sales Leads
 - “TV” Model
 - Client-Based Application
 - Displayed on Dedicated Monitor
 - Little or No Interaction
- Web LeadTV
 - Browser-Based
 - Enhanced Capabilities and Usability
- Features
 - Customize Leads Visualized
 - By Brands and/or Models
 - By Top 5
 - Etc.
 - Zoom and Pan
 - Time Shifting
 - Etc.
- Technologies
 - Web Application Programming
 - Java and/or Silverlight
 - SQL Databases



URBAN SCIENCE

A group photo of four students standing in front of a whiteboard. The whiteboard contains several diagrams, including a table with the word 'stations' at the top, a flowchart with boxes labeled 'PlatformSection' and 'Marker', and a graph with a dashed line and the word 'threshold'. The students are dressed in collared shirts and sweaters. The names of the students are overlaid on the image in white text.

Will
Cousins

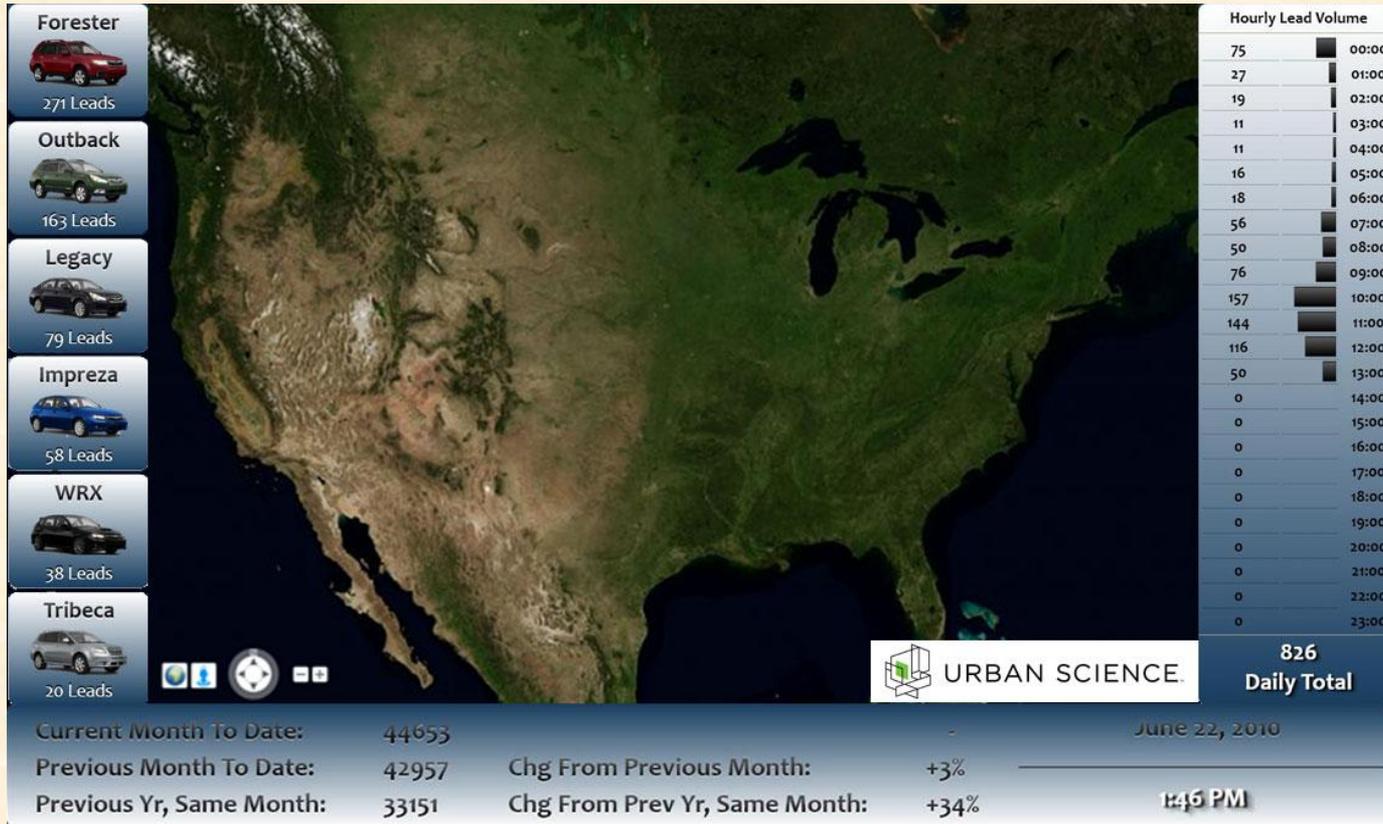
Meredith
Schmidt

Paul
Virag

Justin
Catchens

Team Urban Science
Team Photo

Team Urban Science Screen Mockup



Project Overview

- Creating an interactive version of LeadVision
- Audience: customers walking into a dealership/corporate office
- “Lead” – request sent by customer
- No user input needed
- Daily lead data shown

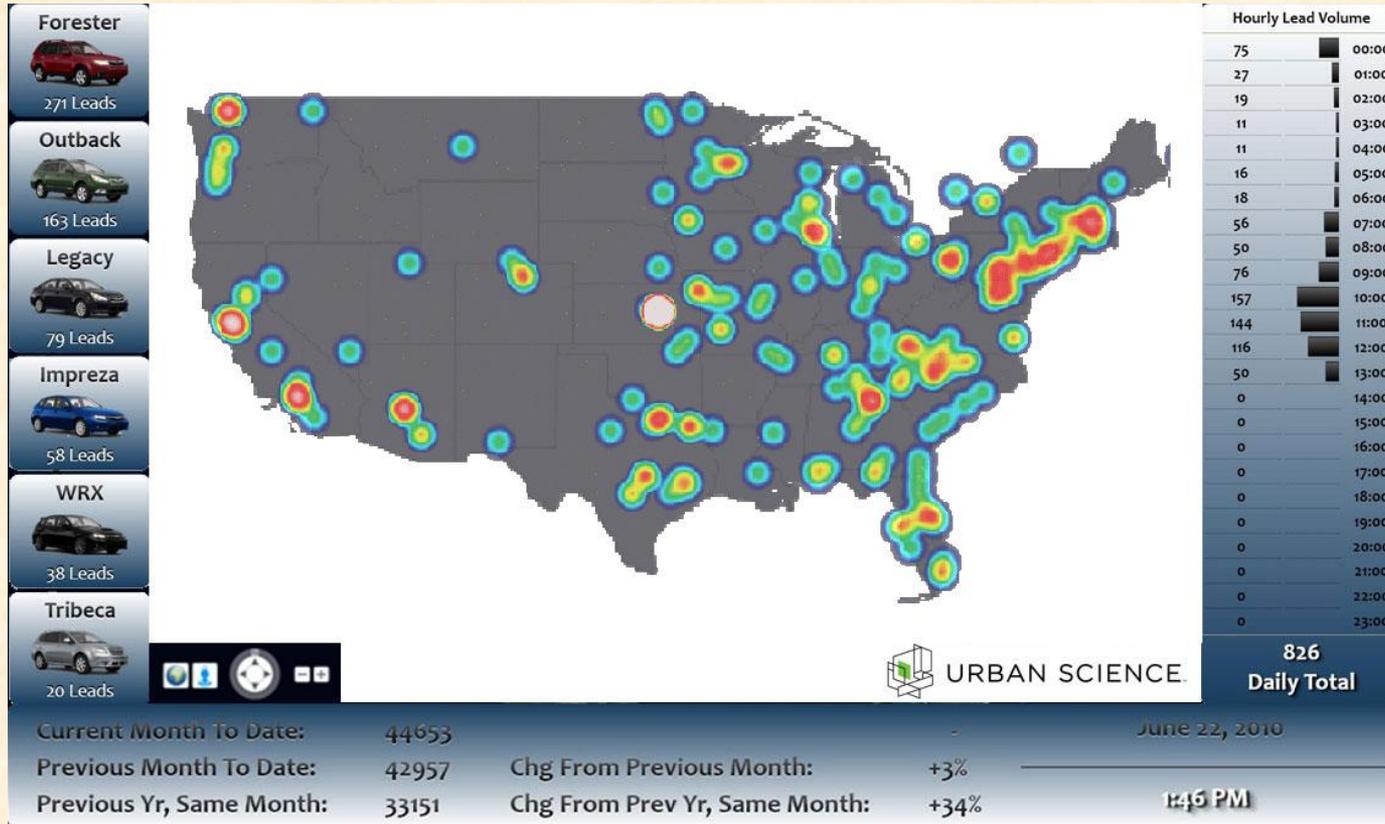


The Customer Experience

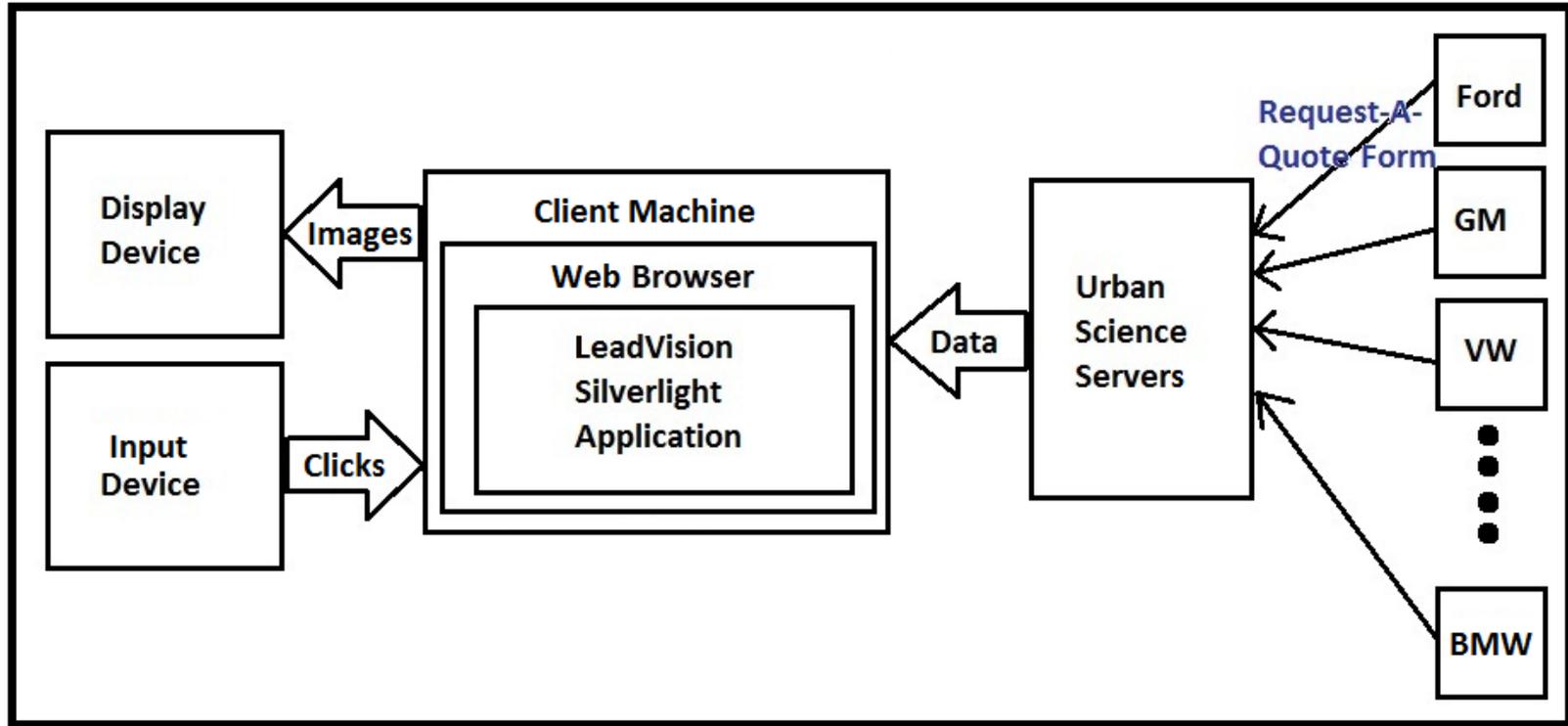
Team Urban Science Project Plan

Team Urban Science
Project Plan Presentation

Team Urban Science Screen Mockup



Team Urban Science Architecture Diagram



Risks

- Geographical Data
 - How do we get it? How can we make use of it?
 - Panning and zooming
- Learning Silverlight
 - Displaying map/showing data
- Ticker
 - What kinds of statistics/how to store & load them
- Flexibility/Testing
 - Making it work on different browsers

Team Urban Science
Project Plan Presentation

Team Urban Science Alpha Presentation

Car Buttons and Ticker



The Capstone Experience



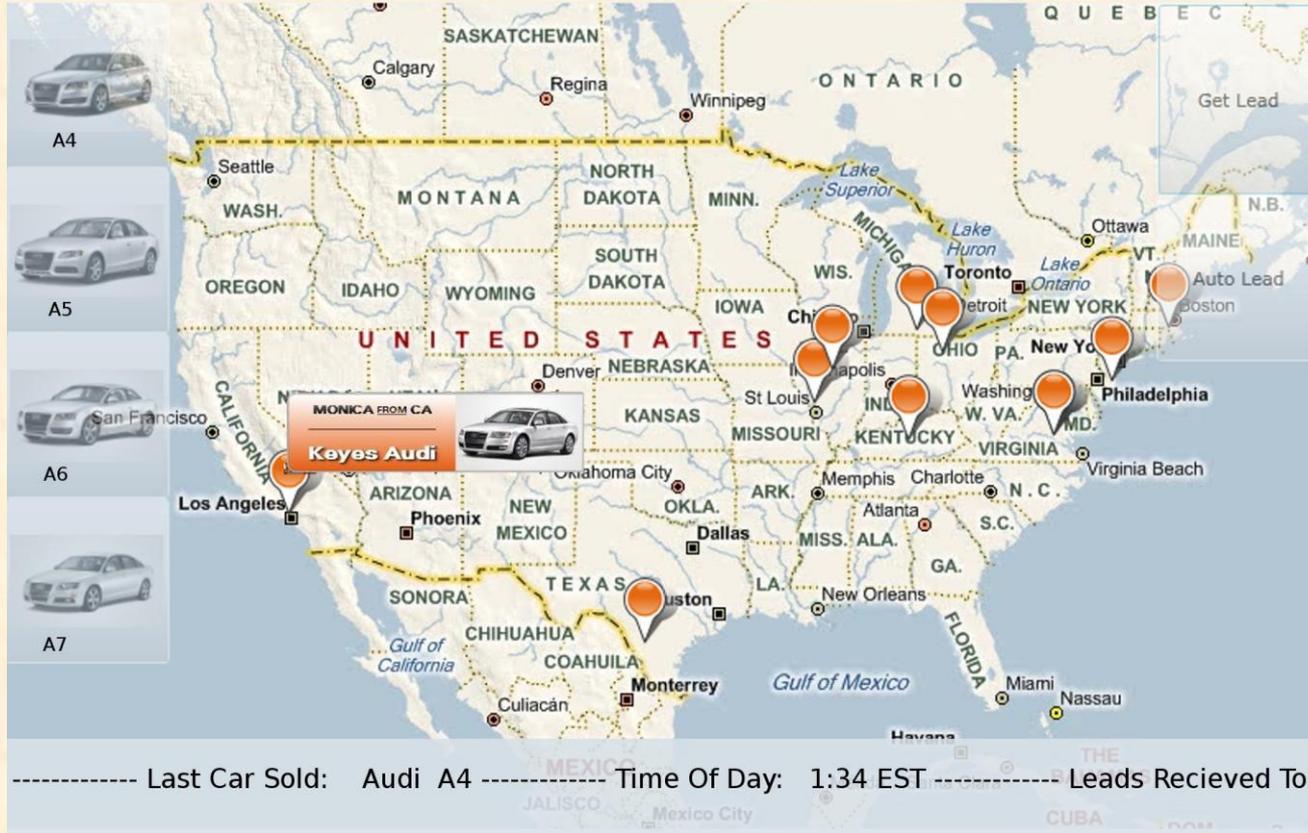
Map With Borders And Zoom In Feature



Team Urban Science
Alpha Presentation

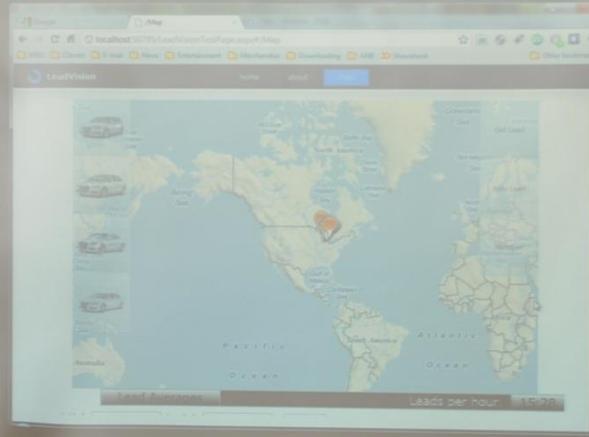
Team Urban Science Alpha Presentation

Audi Lead in L.A.



The Capstone Experience

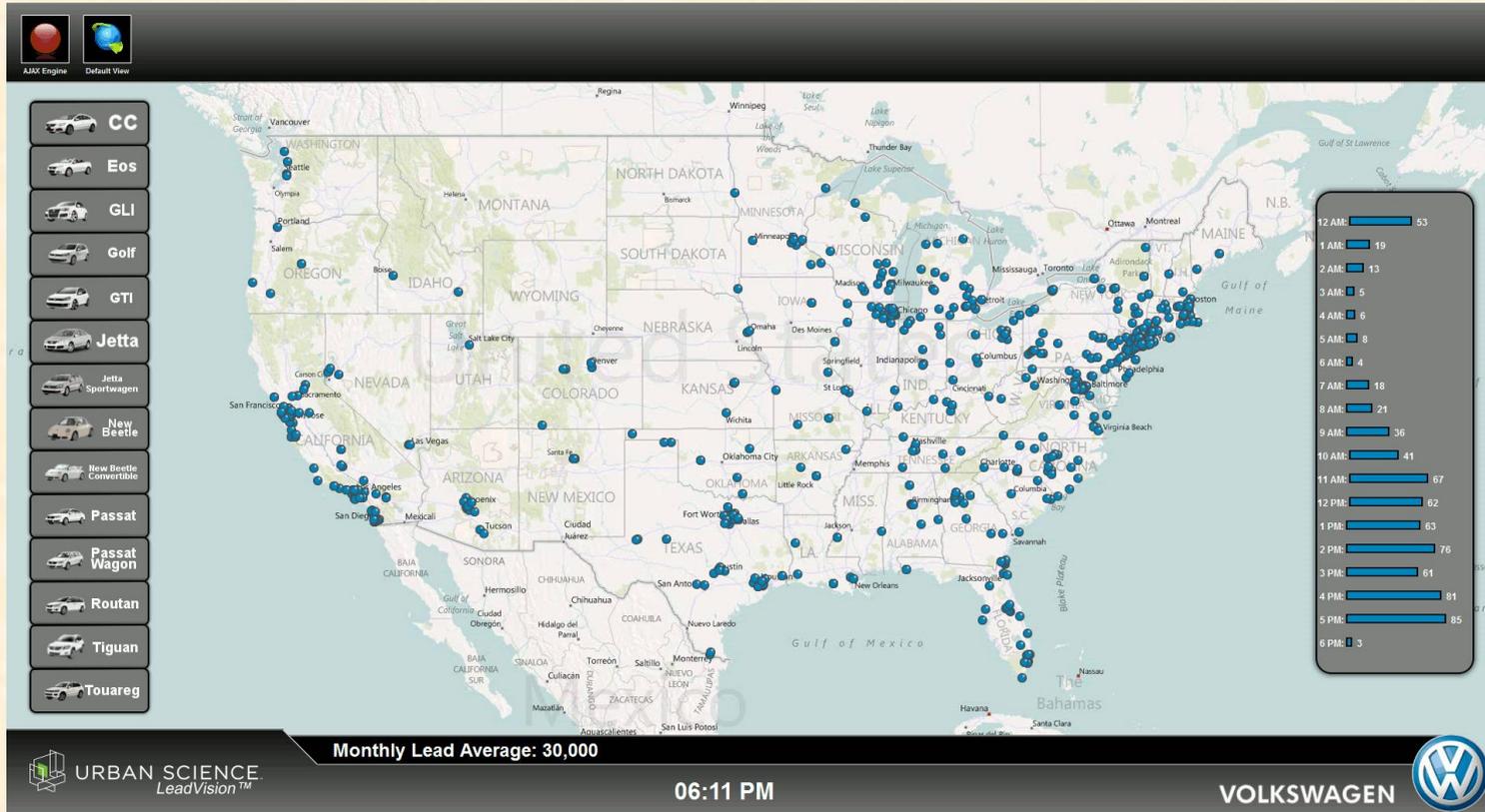




Team Urban Science
Alpha Presentation

Team Urban Science Beta Presentation

LeadVision Default View

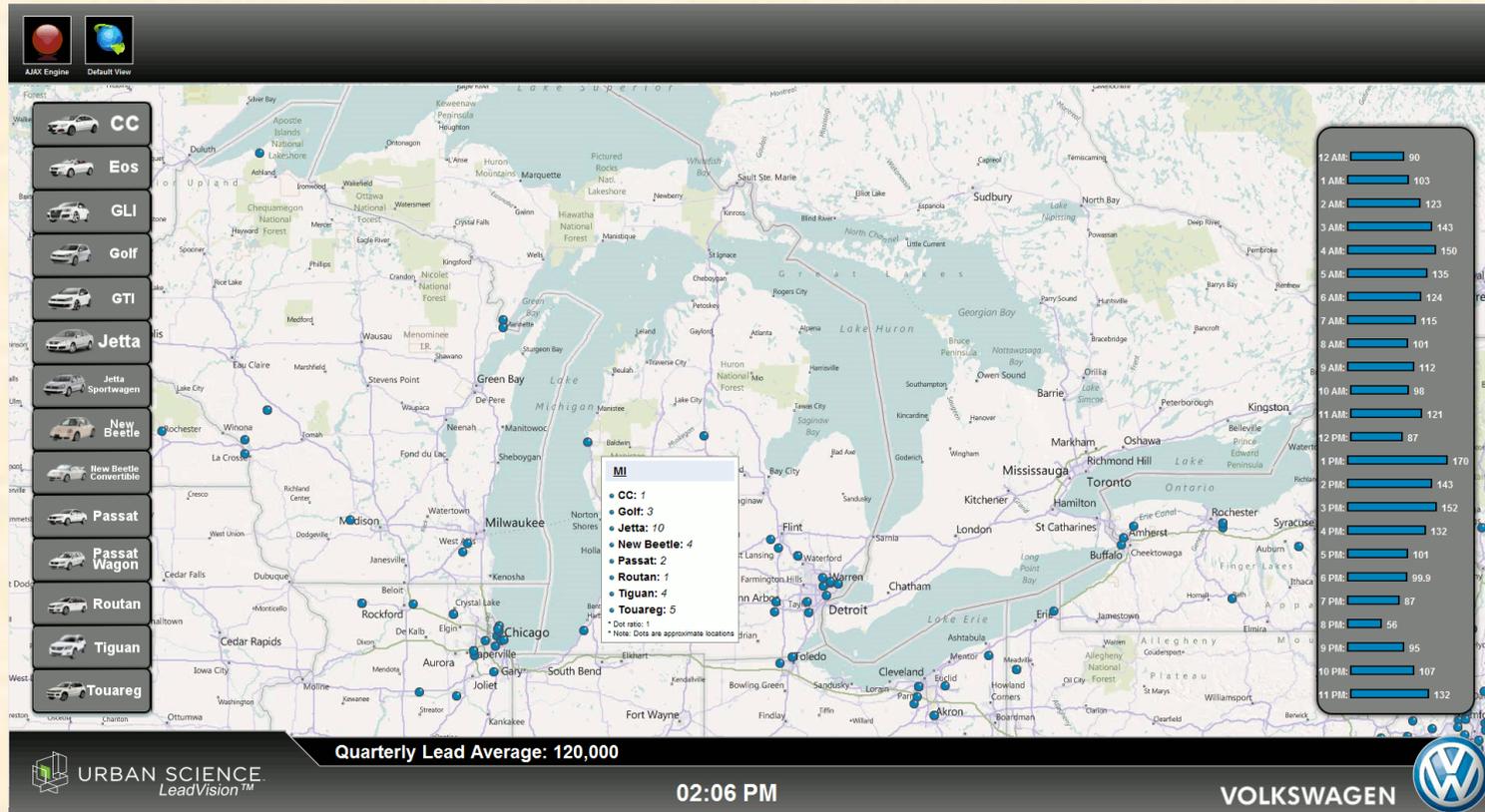


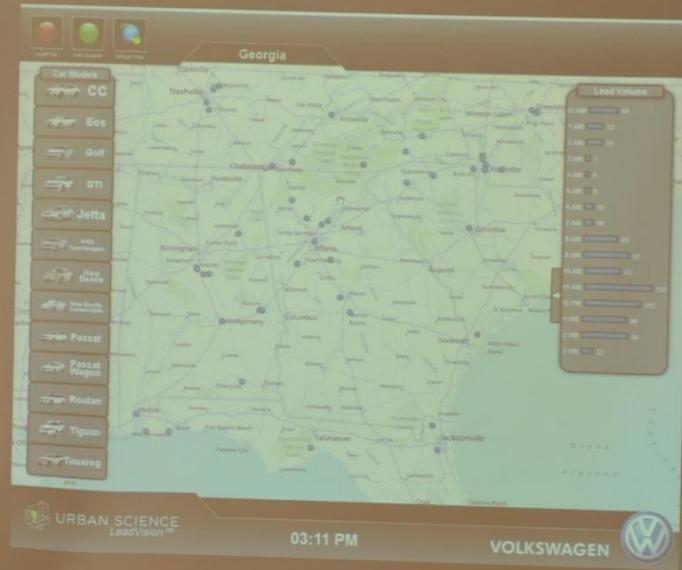


Team Urban Science
Beta Presentation

Team Urban Science Beta Presentation

LeadVision Mouse-Over





Team Urban Science
Beta Presentation



UNION
CENTRAL

Urban Science
Bringing LeadVision to the Web

Only the thousands of people who visit our site to see the data and the maps that we have created for you. Our website has been designed to be easy to use and to provide you with the information you need to make the most of our data. We have a lot of information to share with you and we want to make sure you can find it all in one place. We have a lot of information to share with you and we want to make sure you can find it all in one place. We have a lot of information to share with you and we want to make sure you can find it all in one place.



URBAN SCIENCE



Urban Science is a leading provider of data and information for the urban planning and development industry. Our data is used by a wide range of organizations, including government agencies, private industry, and academic institutions. We provide a comprehensive suite of services, including data collection, analysis, and visualization. Our data is used to inform decision-making and to improve the quality of life in urban areas.

GE Aviation
MSU Next Generation

Y ou are living in a "new" world. The world is changing. The world is becoming more and more connected. The world is becoming more and more global. The world is becoming more and more diverse. The world is becoming more and more complex. The world is becoming more and more challenging. The world is becoming more and more exciting. The world is becoming more and more beautiful. The world is becoming more and more wonderful. The world is becoming more and more amazing. The world is becoming more and more incredible. The world is becoming more and more extraordinary. The world is becoming more and more remarkable. The world is becoming more and more extraordinary. The world is becoming more and more remarkable. The world is becoming more and more extraordinary. The world is becoming more and more remarkable.



Team Urban Science
Design Day

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



Capstone Lab
View of Spartan Stadium



Capstone Lab
View of Spartan Stadium

MICHIGAN STATE

UNIVERSITY

The Capstone Experience

Design Day Award Winners

April 30, 2010



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



Auto-Owners Exhibition Award

Team GE Aviation, Spring 2010

[Flight Deck Lateral Map Display](#)

Jason Ridgon, Jordan Clare, Cory Sites, Adam Dupler

Presented by Ron Simon of [Auto-Owners Insurance](#)





Chrysler Praxis Award

Team Boeing, Spring 2010

[XML Texture Composition](#)

Jeremiah Cunningham, Jessica Parks, Marc Coleman, Jonathan Harris

Presented by Rick Rose of [Chrysler](#)





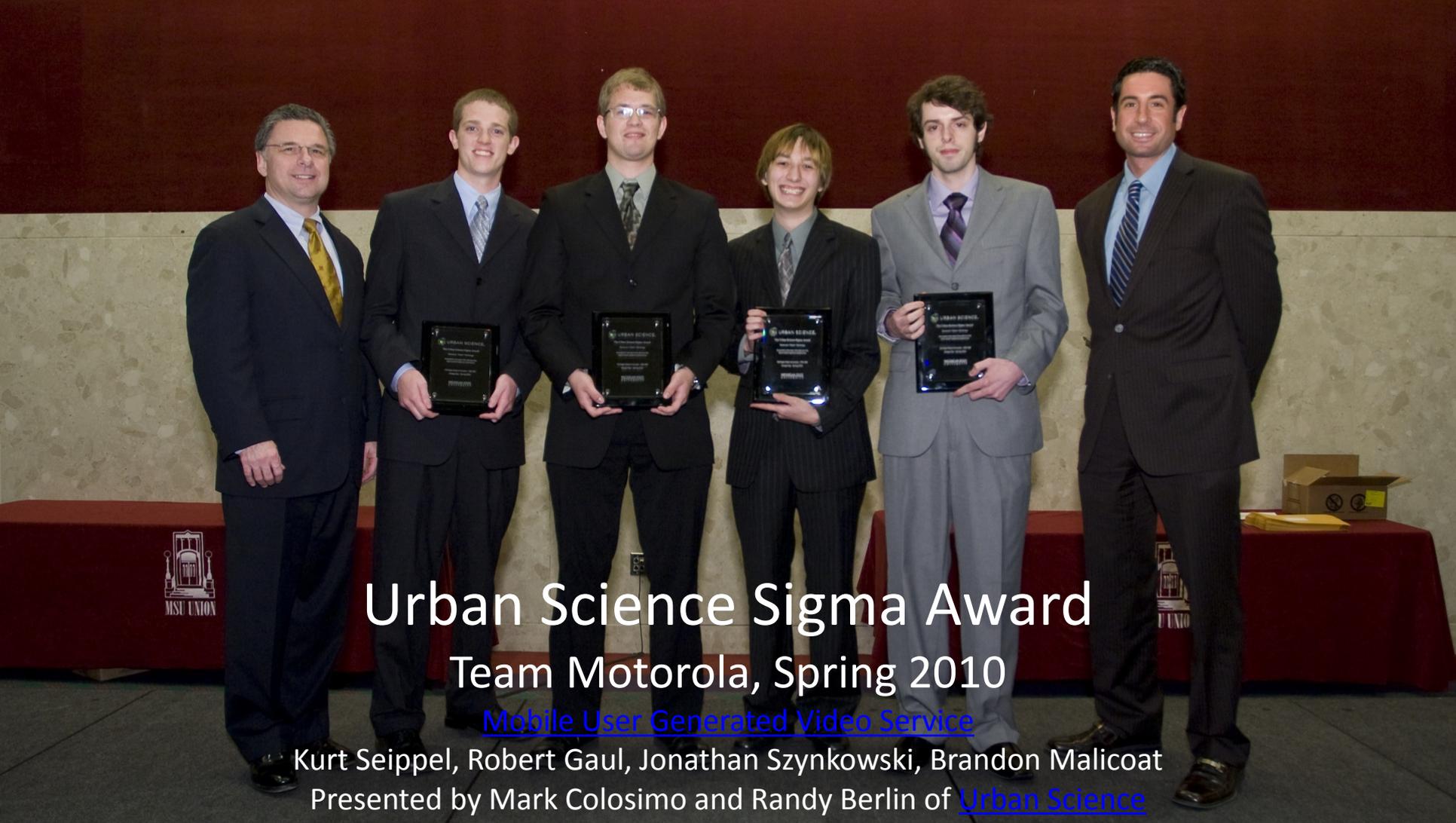
TechSmith Screencast Award

Team Medtronic, Spring 2010

[Mobile Health Management System](#)

Michael Keeseey, Kevin Chen, Karthik Chokkaram, Meghan McNeil

Presented by Dean Craven of [TechSmith](#)



Urban Science Sigma Award

Team Motorola, Spring 2010

[Mobile User Generated Video Service](#)

Kurt Seippel, Robert Gaul, Jonathan Szykowski, Brandon Malicoat

Presented by Mark Colosimo and Randy Berlin of [Urban Science](#)

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Design Day Award Winners

December 10, 2010



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



Auto-Owners Exhibition Award

Team Meijer, Fall 2010

[ITS Products and Services Request System](#)

Matt Packowski, Austin McCarty, Andrew Thielking

Presented by Scott Lake and Bob Buchanan of [Auto-Owners Insurance](#)



Chrysler Praxis Award

Team Motorola, Fall 2010

[Enhanced Program Guide for Mobile Devices](#)

Andrew Rossow, Drew Hanlon, Tim Aubel, Brian Cripe

Presented by Karen Wrobel of [Chrysler](#)



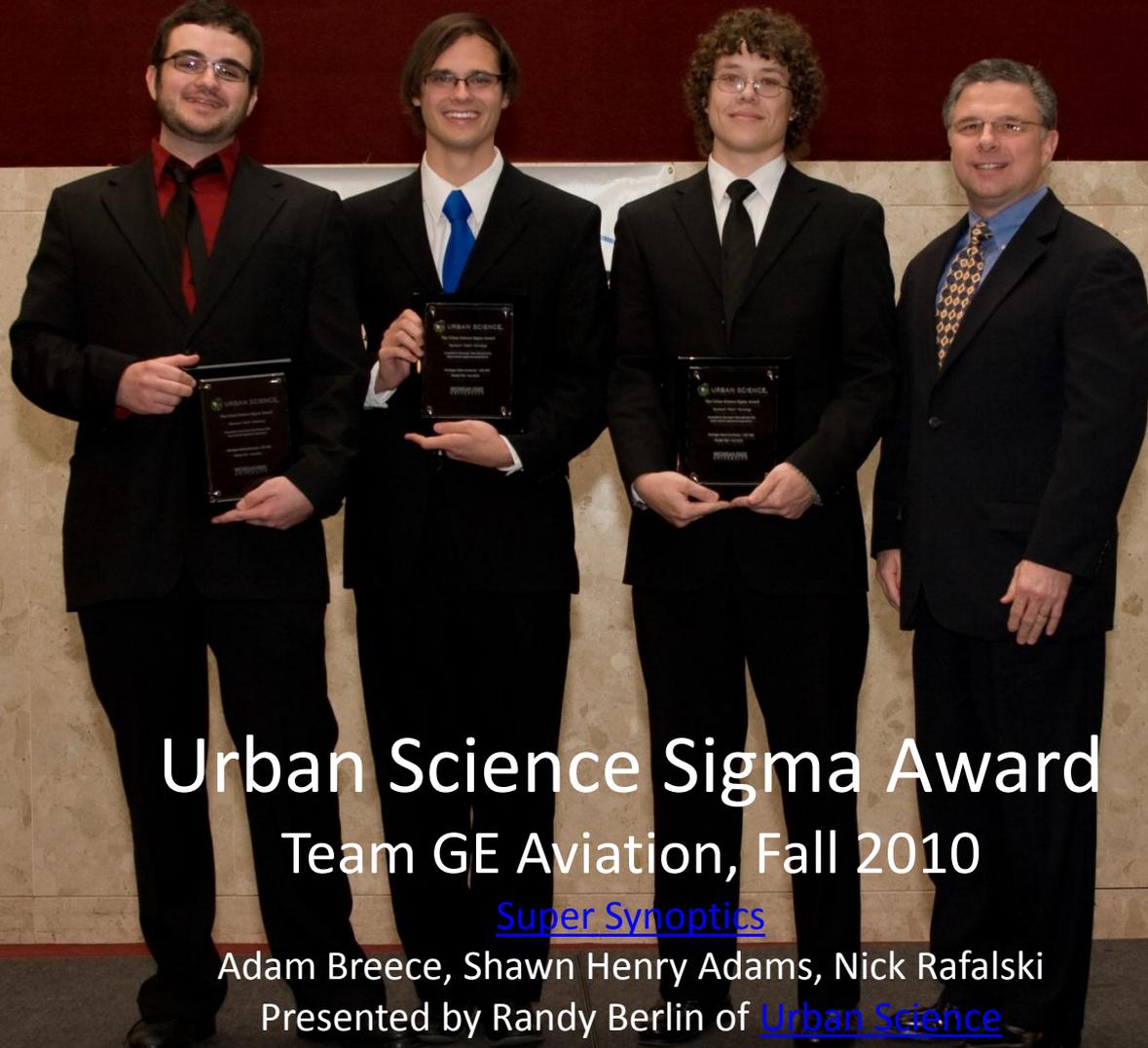
TechSmith Screencast Award

Team Medtronic, Fall 2010

[Medtronic Wellness Portal](#)

Zach Riggle, Joe Heldt, Chris Van Wiemeersch, Vu Bui

Presented by Dean Craven of [TechSmith](#)



Urban Science Sigma Award

Team GE Aviation, Fall 2010

[Super Synoptics](#)

Adam Breece, Shawn Henry Adams, Nick Rafalski

Presented by Randy Berlin of [Urban Science](#)

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Design Day Award Winners

April 29, 2011



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

Auto-Owners Exhibition Award

Raytheon, Spring 2011

[Dynamic Spectrum Access for Network Radios](#)

James Voss, William Bonner, Matt Bowser, Srinivasa Settaluri

Presented by Scott Lake and Bob Buchanan of [Auto-Owners Insurance](#)



Chrysler Praxis Award

Team Boeing, Spring 2011

[BAPS: Battle Aircraft Position Share](#)

Steven Garske, Eric Muller, Adam Cook, Andrew Kos

Presented by Karen Wrobel of [Chrysler](#)



TechSmith Screencast Award

Team Medtronic, Spring 2011

[Cloud-Based Athletics Operations Center](#)

Caitlin Russ, Evan Francis, Michael Holp, Christopher Paterson

Presented by Dean Craven of [TechSmith](#)

A photograph of four young adults standing in front of a whiteboard. From left to right: a man in a light blue striped shirt, a woman in a maroon shirt, a man in a black suit, and a man in a blue button-down shirt. The whiteboard behind them has various diagrams and drawings, including a green Android robot, a cat-like character, and handwritten notes in red and green. The notes include 'Step 2', 'Step 3', 'Bundle Suggestions (IE exam time)', and 'Kevin may do this on his own'.

Urban Science Sigma Award

Team Sparrow, Spring 2011

[iSupport Center](#)

Brett McMillen, Dianna Kay, Maurice Wong, Ryan Hewitt

Presented by Randy Berlin of [Urban Science](#)

MICHIGAN STATE

U N I V E R S I T Y

The Capstone Experience

Dr. Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University
Spring 2011



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



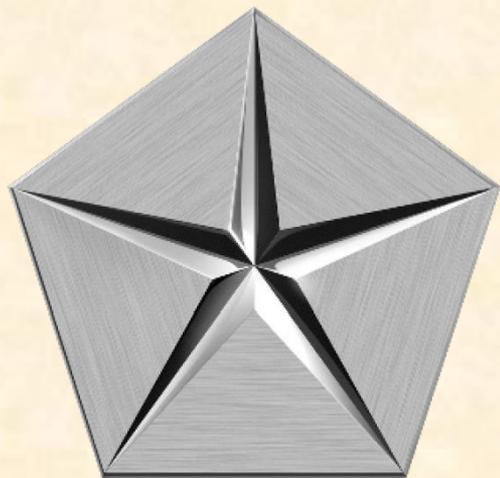
Auto-Owners Insurance

Life Home Car Business

The "No Problem" People®



BOEING



CHRYSLER

The image features the Dow logo, which consists of the word "DOW" in a bold, white, sans-serif font centered within a red diamond shape. The diamond is oriented horizontally. The background is a light beige color with a subtle, repeating pattern of the word "DOW" in a smaller, lighter font. At the top and bottom of the image, there are dark green horizontal bars with a thin grey segment on the left side.

DOW

®





Medtronic

meijer[®]



MOTOROLA

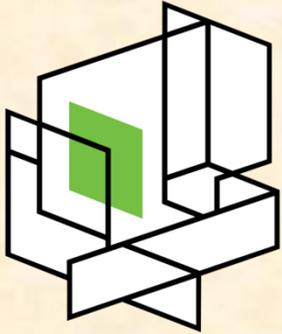
Raytheon



Sparrow



TechSmith®



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