

The Computer Science Senior Capstone Experience

CSE498 Collaborative Design

Department of Computer Science and Engineering

Michigan State University

Fall 2009

Professor Wayne Dyksen

Course Objectives

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

Course Objectives

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

Course Objectives

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

All-Hands Meetings

- MW, 3:00-3:50pm, 2445 Engineering Building
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Alpha and Beta Demonstrations
 - Formal Presentations
 - Project Videos
 - Guest Speakers

All-Hands Meeting Agendas

09/02: Course Overview
09/07: (Labor Day, No Meeting)
09/09: Project Plan
09/14: Project Schedule & Risk
09/16: Teams: Status Reports
09/21: Prototyping
09/23: Resume Writing & Interviewing
09/28: Teams: Project Plans
09/30: Teams: Project Plans
10/05: Teams: Project Plans
10/07: Career Gallery
10/12: Creating & Giving Presentations
10/14: Teams: Alpha Demonstrations
10/19: Teams: Alpha Demonstrations
10/21: Teams: Alpha Demonstrations
10/26: Teams: Alpha Demonstrations
10/28: Camtasia Demo

11/02: The Project Video
11/04: Teams: Status Reports
11/09: Teams: Beta Demonstrations
11/11: Teams: Beta Demonstrations
11/16: Teams: Beta Demonstrations
11/18: Teams: Beta Demonstrations
11/23: Ethics and Professionalism
11/25: Teams: Status Reports
11/30: Intellectual Property
12/02: Teams: Status Reports
12/07: Teams: Project Videos
12/09: Teams: Project Videos
12/10: Design Day Setup
12/11: Design Day
12/14: Teams: Project Videos

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Auto-Owners Insurance

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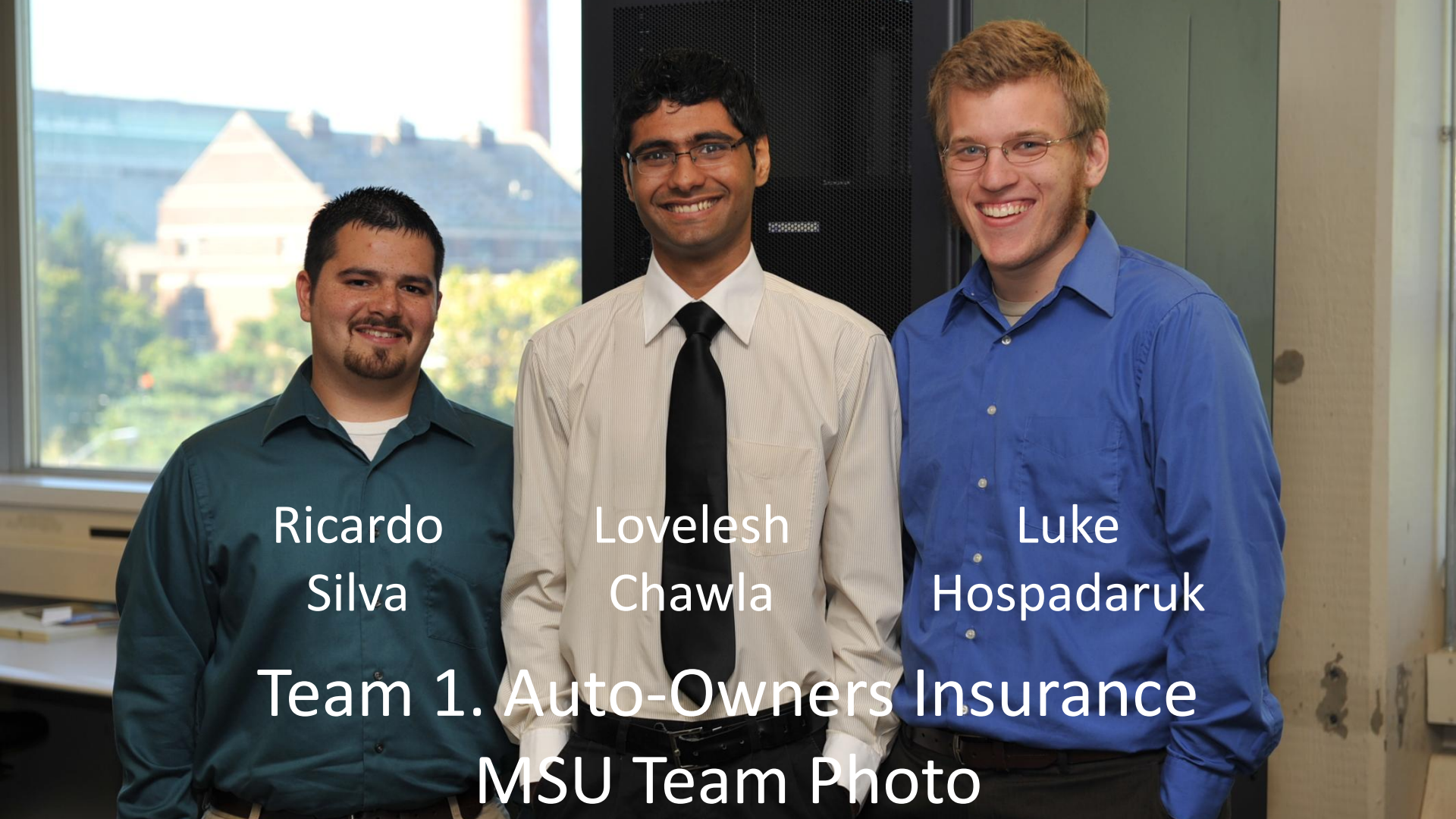
Team 1. Auto-Owners Insurance

Project Overview

Applications for Mobile Devices

- Locate Independent Insurance Agent
 - Search by Name, Address, or Zip Code
 - Provide Agent Information
 - Show Locations with Maps
- Initiate Claim
 - Policy Information
 - Incident Description
 - Upload Photos
- Technologies
 - Windows Mobile
 - iPhone
 - Blackberry



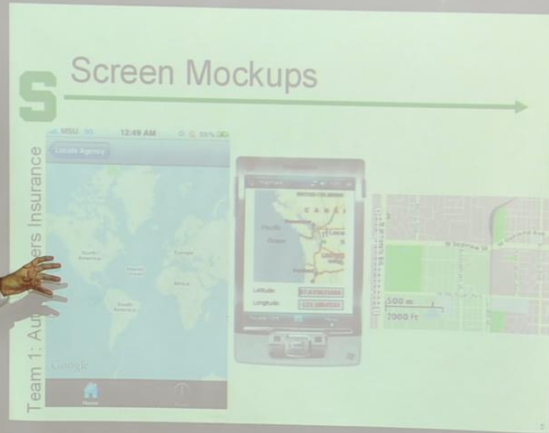


Ricardo
Silva

Lovelesh
Chawla

Luke
Hospadaruk

Team 1. Auto-Owners Insurance
MSU Team Photo



Team 1. Auto-Owners Insurance Project Plan Presentation

Team 1. Auto-Owners Insurance

Screen Mockups

MSU 3G 12:53 AM 62%

Home Information

First Name	First Name
Last Name	Last Name
Policy Number	Policy Number
Phone	Phone
Email	Email

Home About

AutoOwners

Name:

Policy No.:

Date: 9 /21/09

Picture:

Phone:

Email:

Submit

Accident Info

Claimant 1

First Name:

Last Name:

Phone Number:

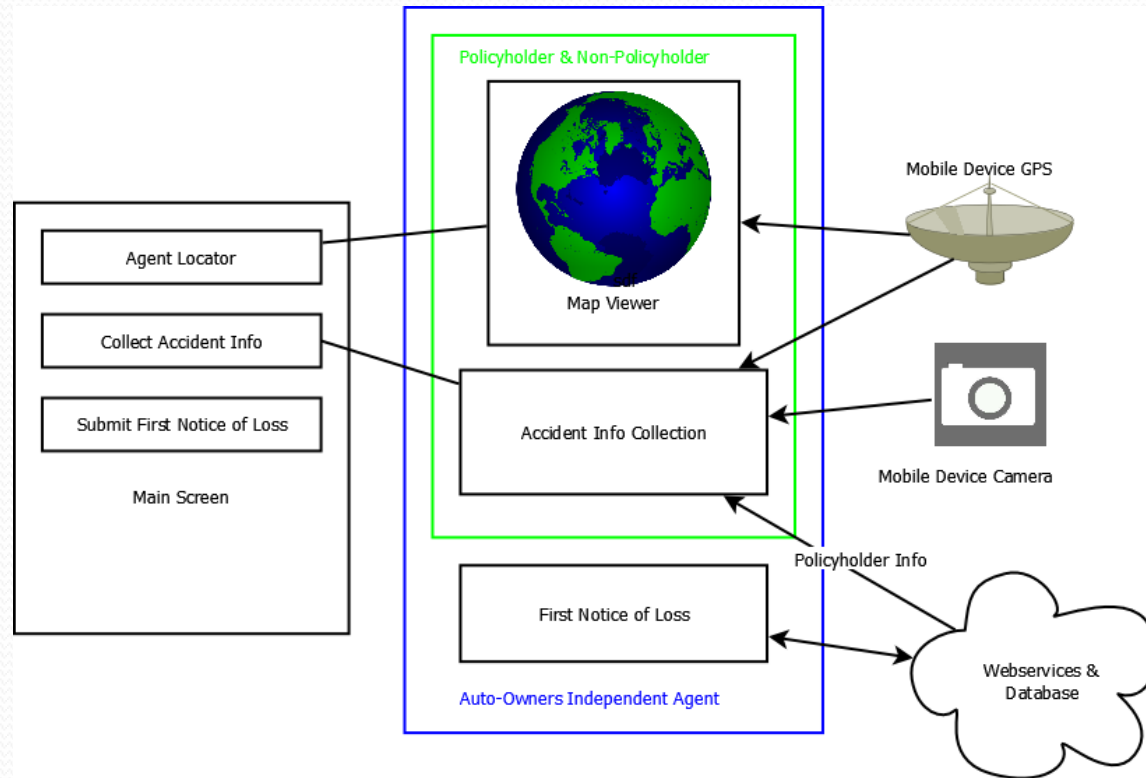
Plate Number:

New Claimant Submit Claim



Team 1. Auto-Owners Insurance Project Plan Presentation

Team 1. Auto-Owners Insurance Architecture Diagram

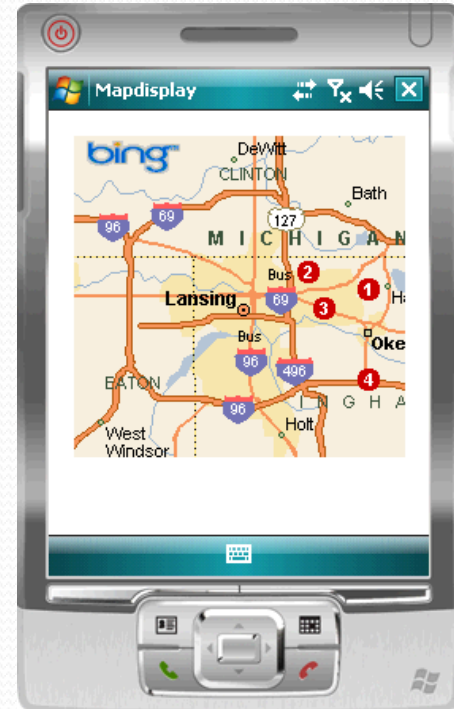
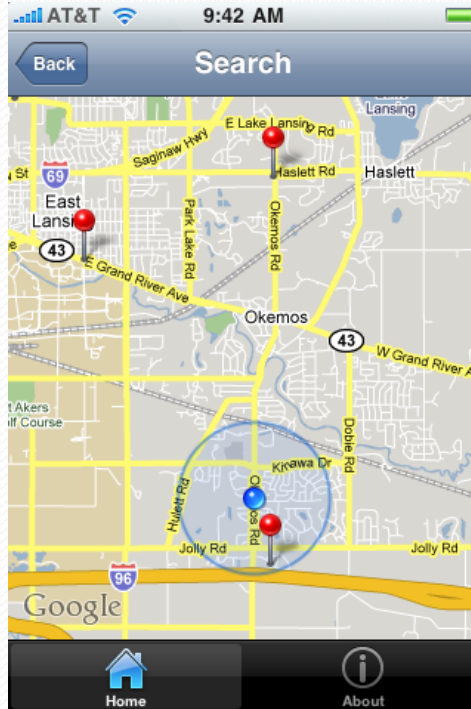
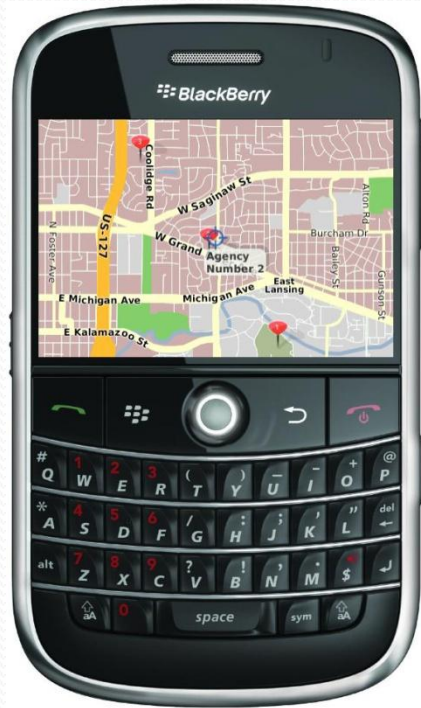




Team 1. Auto-Owners Insurance
Alpha Demonstration

Team 1. Auto-Owners Insurance

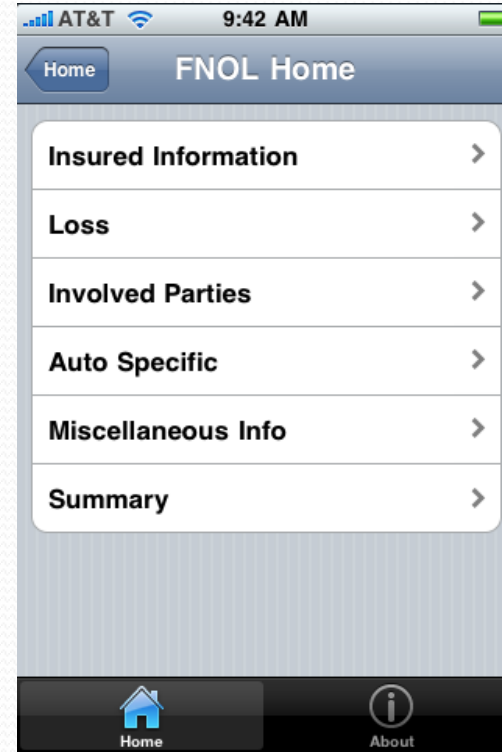
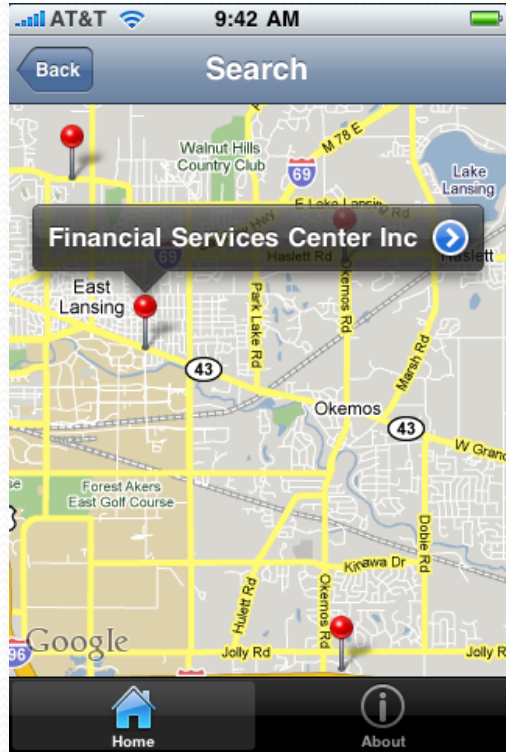
Alpha Demonstration





Team 1. Auto-Owners Insurance Alpha Demonstration

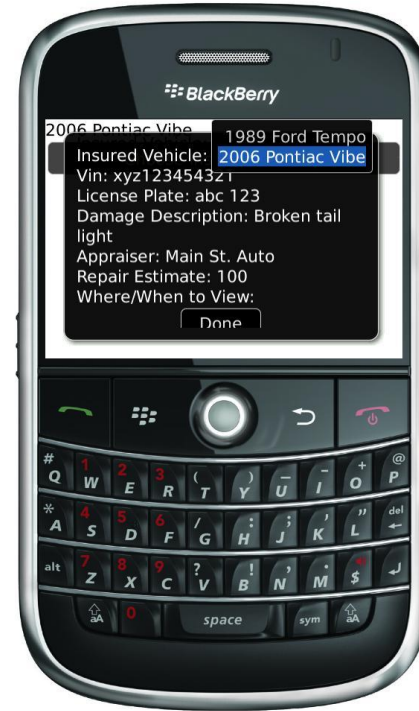
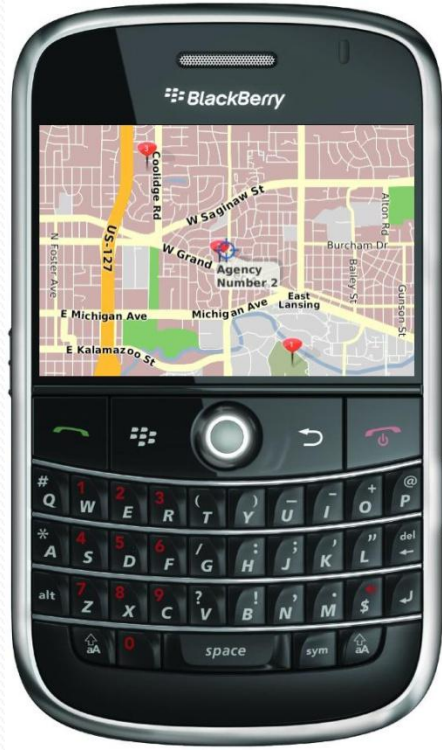
Team 1. Auto-Owners Insurance Beta Demonstration



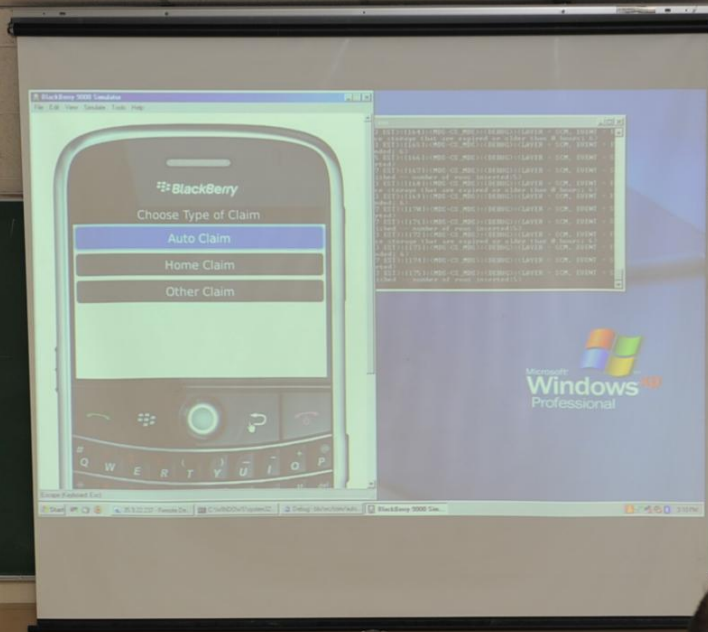


Team 1. Auto-Owners Insurance
Beta Demonstration

Team 1. Auto-Owners Insurance Beta Demonstration

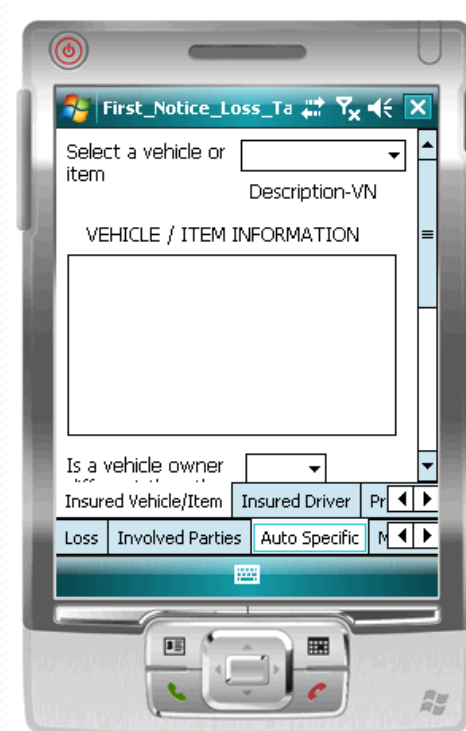
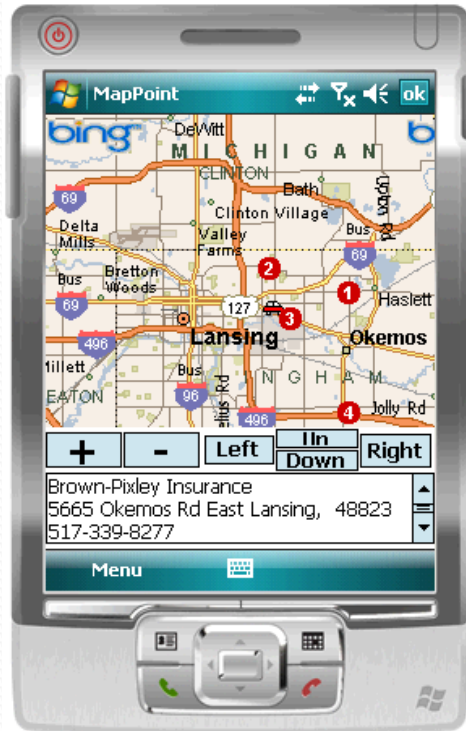


Team 1. Auto-Owners Insurance Beta Demonstration



Team 1. Auto-Owners Insurance

Beta Demonstration





Team 1. Auto-Owners Insurance Beta Demonstration



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Special Feature:

- [Tanker Facts blog](#)

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To view the animation to the left you need a Flash player.

In The News:

Boeing Delivers Super Hornet Proposal to Brazil for F-X2 Competition

Boeing and Seal Dynamics Sign Contract for Innovative Supply-Chain Solution

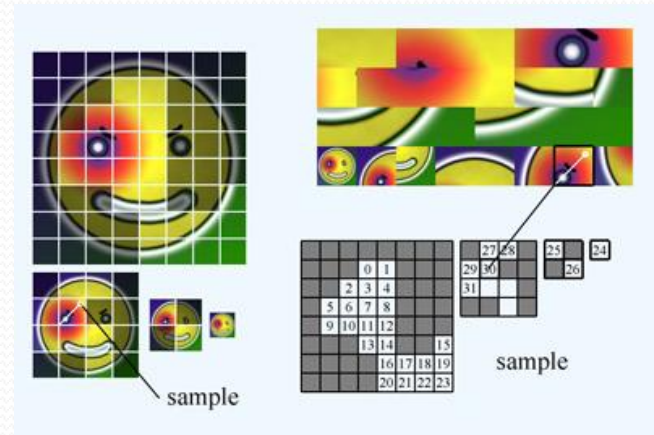
Boeing American Airlines

Team 2. Boeing

Project Overview

Sparse Visual Texturing

- Sparse Virtual Texturing (SVT)
 - Simulate Large Textures with Much Less Texture Data
 - Download Smaller Data and Apply Pixel Shader
 - Map Virtual Large Texture to Actual Physical Texture
- Application of SVT to Ground Textures and Terrains
 - Ground Textures (Geotiffs)
 - Terrain Databases (OpenSceneGraph IVE)
- Integration of SVT into Boeing Virtual Application Suites
 - Flight, Urban Combat, Etc...
 - Control of SVD Parameters via GUI
 - Include Fly, Drive, Skim, Traverse, Move
- Technologies
 - Geotiffs
 - OpenSceneGraph
 - Virtual Planet Builder

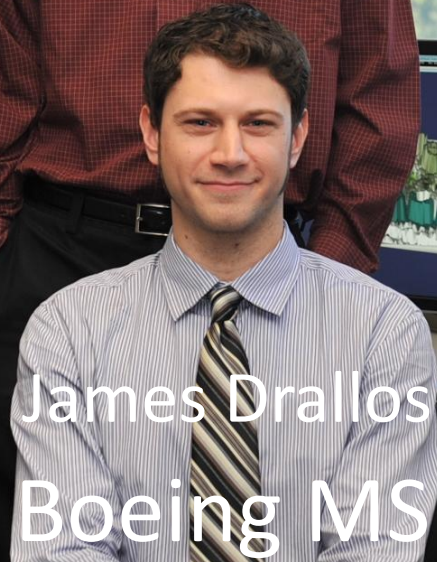




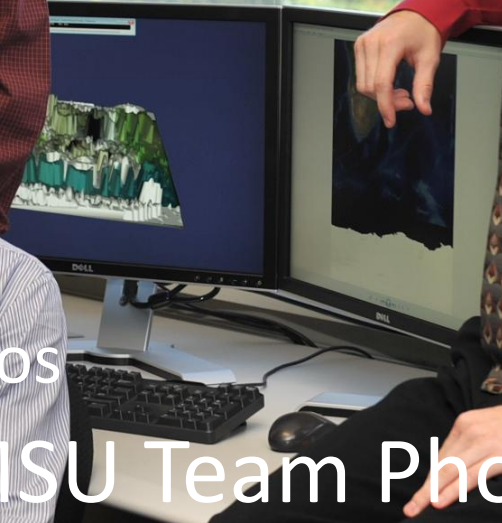
Adam Starks



Patrick
Ohren



James Drallos



Alexander
Kobylarek

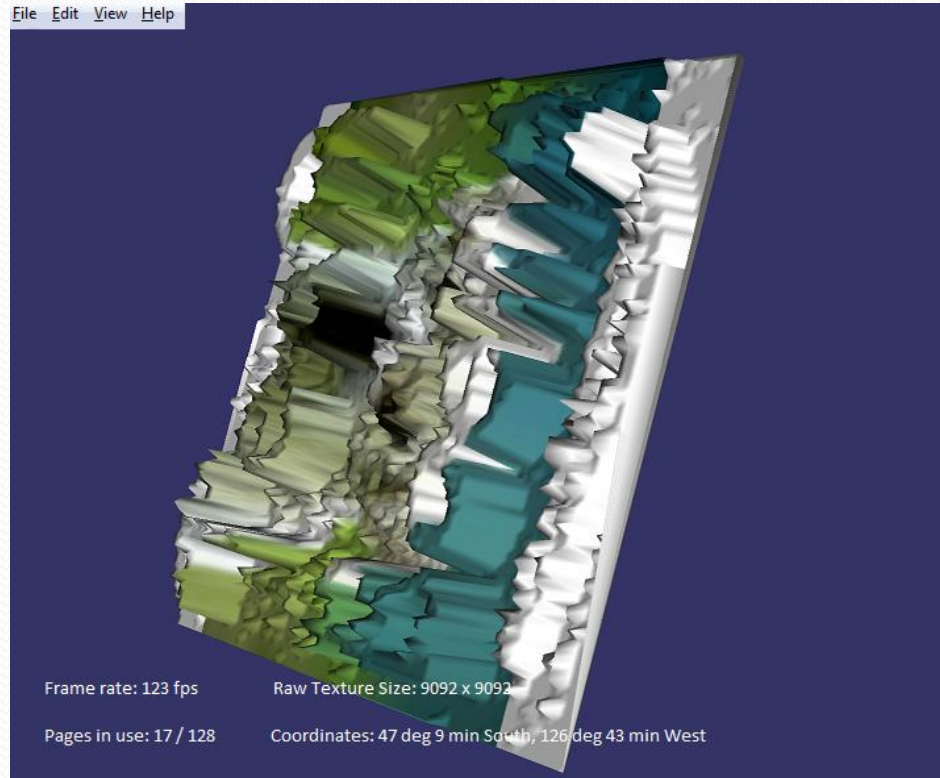
Team 2. Boeing MSU Team Photo

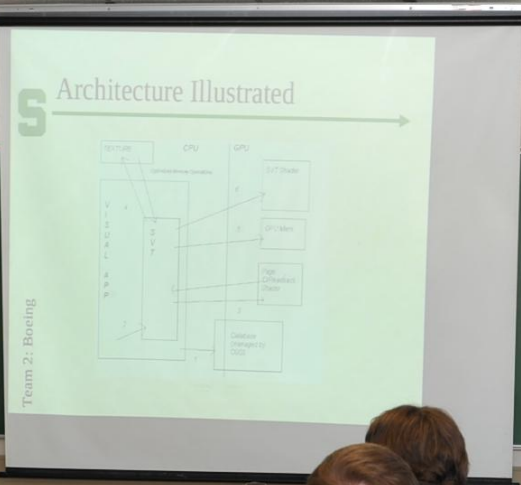


Team 2. Boeing Project Plan Presentation

Team 2. Boeing

Screen Mockup

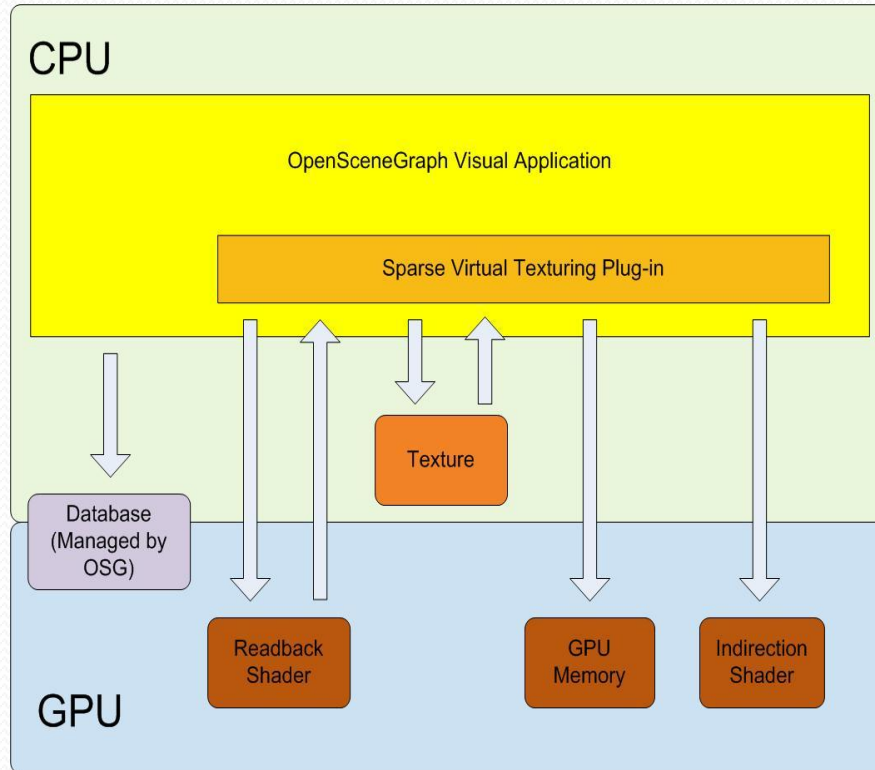




Team 2. Boeing
Project Plan Presentation

Team 2. Boeing

Architecture Diagram

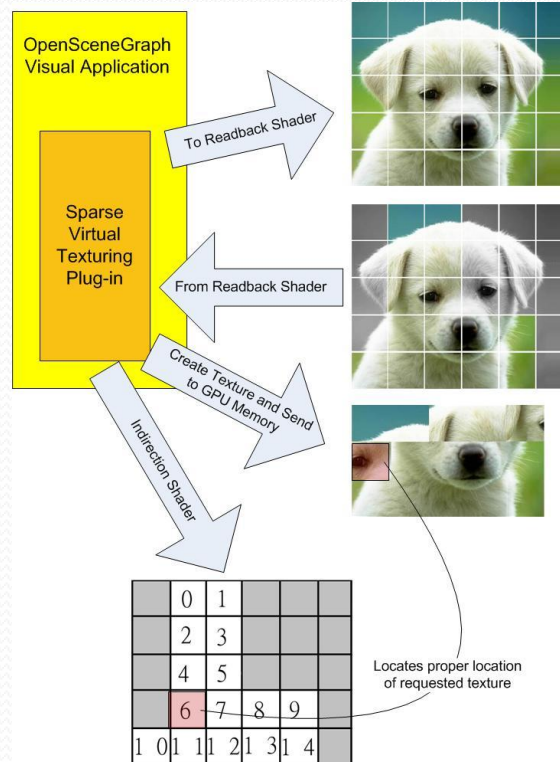




Team 2. Boeing Alpha Demonstration

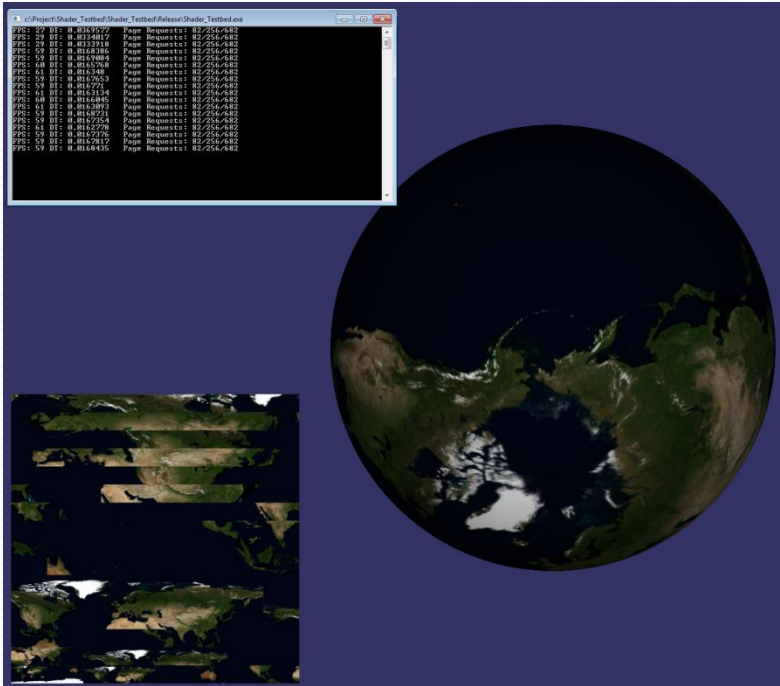
Team 2. Boeing

Alpha Demonstration



Team 2. Boeing

Alpha Demonstration

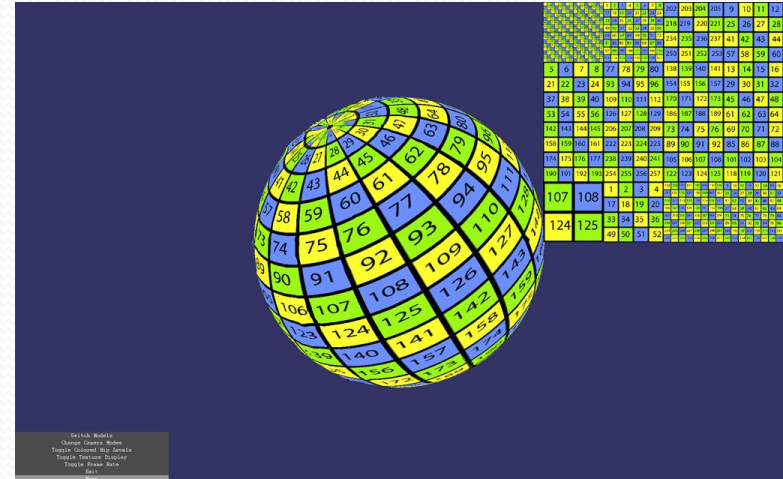
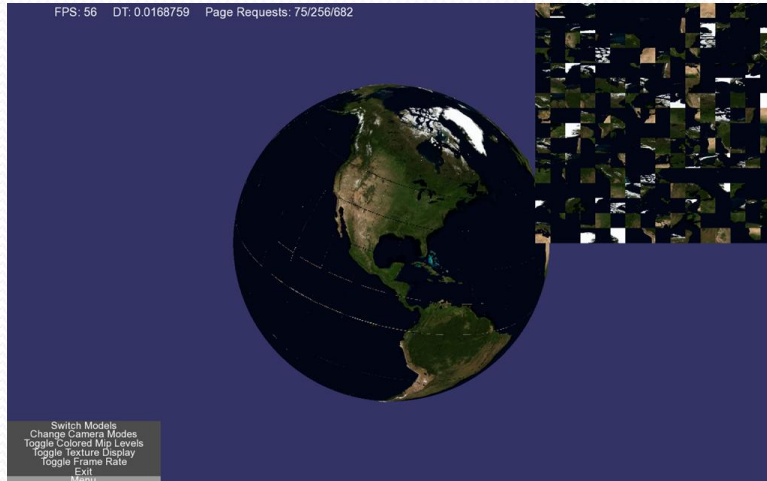




Team 2. Boeing
Alpha Demonstration

Team 2. Boeing

Beta Demonstration





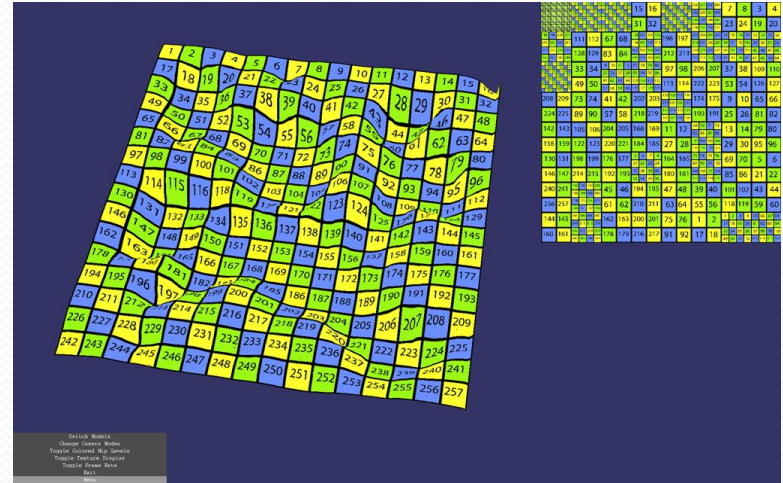
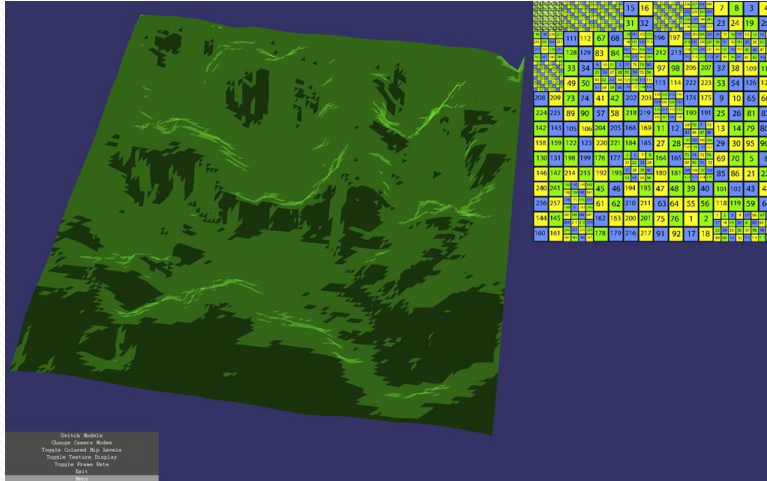
Change Camera Modes
Toggle Colored Mip Levels
Toggle Texture Display
Toggle Frame Rate
Exit
Menu

Team 2. Boeing
Beta Demonstration



Team 2. Boeing Beta Demonstration

Beta Demonstration





Team 2. Boeing Beta Demonstration

11,012,905^{*} hours

The GE90 reaches 10 million hours of flight

* Estimated based on fleet averages



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GENx-2B First Engine to Test

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



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Explore program milestones, specifications, downloads and more for GE's next generation turbofan engine.

Integrated Systems

GE Aviation welcomes Smiths Aerospace to

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[Paul Theofan Named President and Managing Executive of GE Aviation Czech](#)

[Azerbaijan Airlines Selects GE's CF6 Engines to Power its Boeing 767 Aircraft](#)

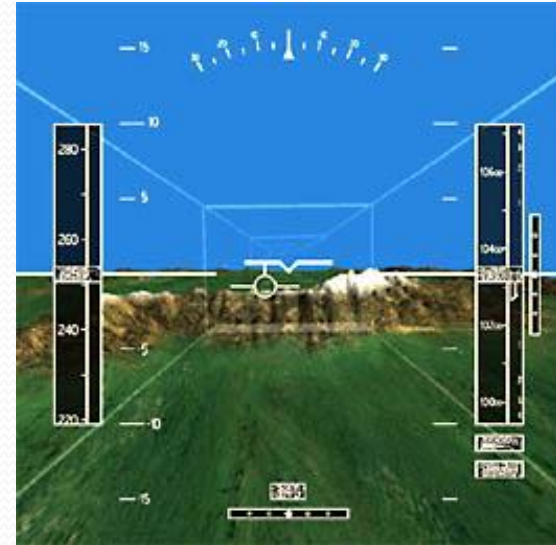
[More News](#)

Team 3. GE Aviation

Project Overview

Synthetic Vision Display (SVD)

- Existing Airplane Attitude Indicator (FAA Part-25)
 - Indicates Pitch, Roll & Heading
 - Two-Dimensional
 - Head-Down
- New SVD Attitude Indicator
 - Indicates Pitch, Roll & Heading
 - Adds Third Dimension
 - Forward Looking (Egocentric) Terrain
 - Flight Path Vector
 - Distance and Closure Rates
 - Lateral Map View
 - Side Vertical Profile View
- Integrate with XPlane
- Technologies
 - SVD
 - Terrain Databases
 - Open GL
 - XPlane



A group photo of four young men sitting around a large wooden conference table in an office setting. From left to right: Andrew Inman in a green plaid shirt, Justin Kienle in a blue polo shirt, Jesse Hacker in a red button-down shirt, and Andrew Gerber in a light blue button-down shirt. A black conference phone is on the table. The background is a grey paneled wall.

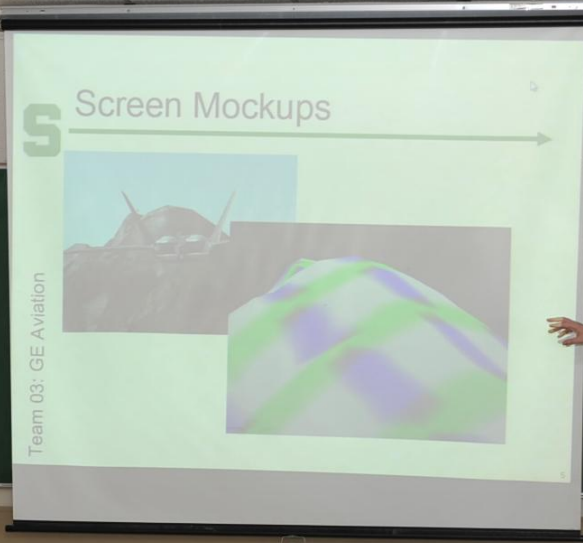
Andrew
Inman

Justin
Kienle

Jesse
Hacker

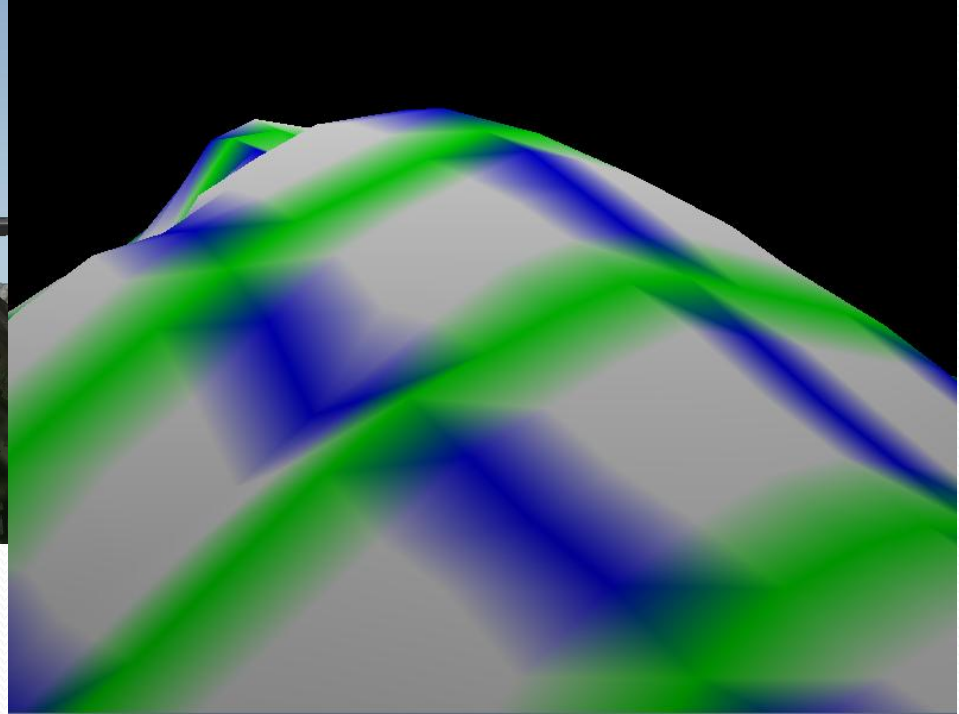
Andrew
Gerber

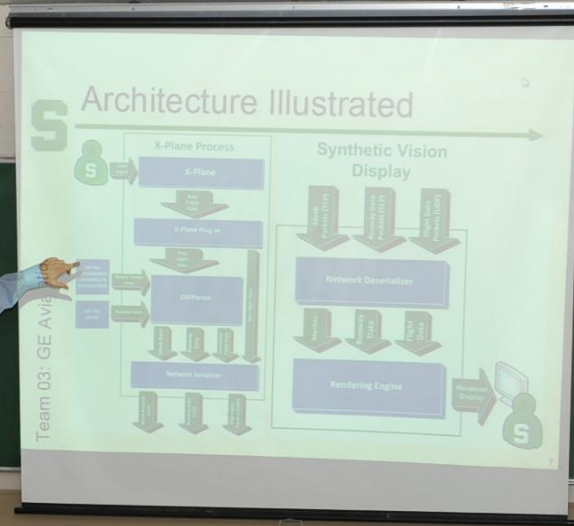
Team 3. GE Aviation
MSU Team Photo



Team 3. GE Aviation Project Plan Presentation

Team 3. GE Aviation Screen Mockups

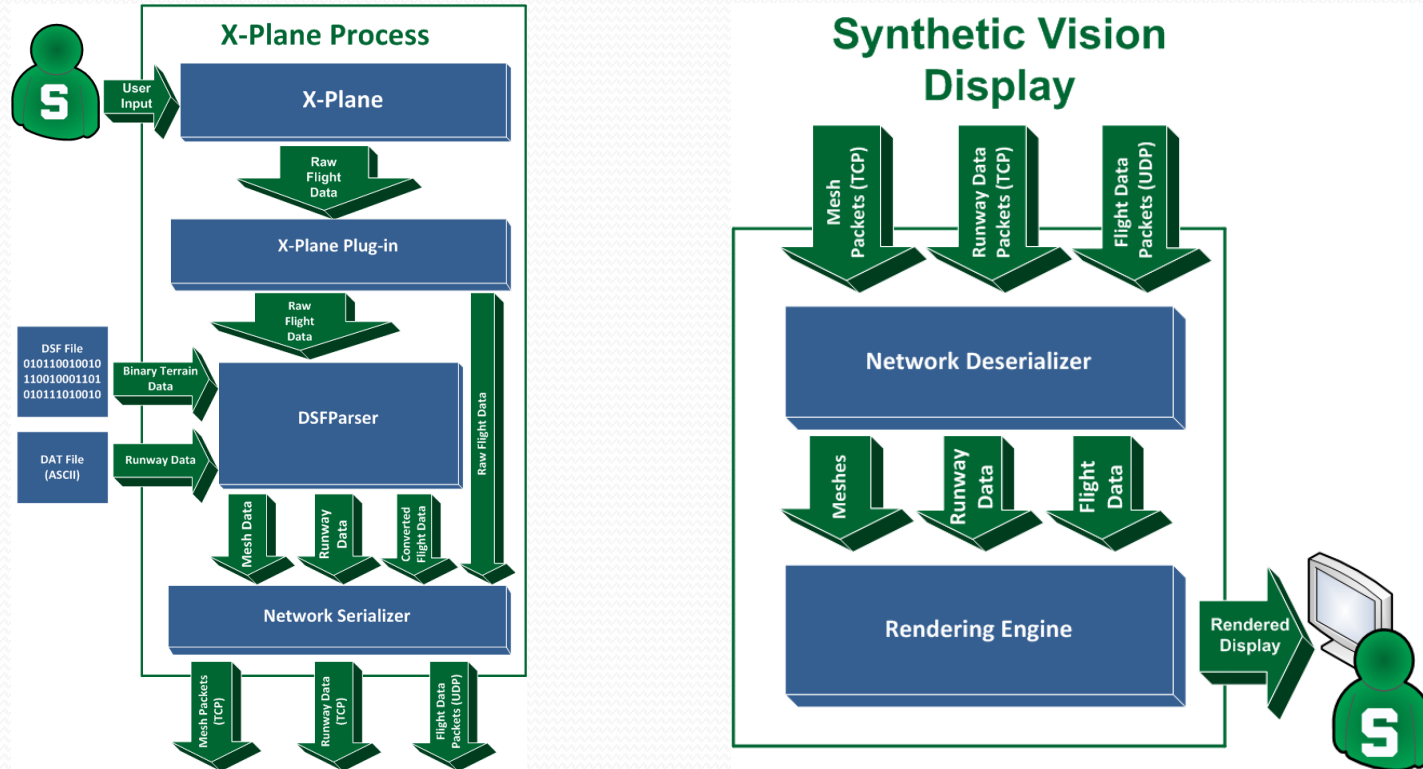




Team 3. GE Aviation
Project Plan Presentation

Team 3. GE Aviation

Architecture Diagram



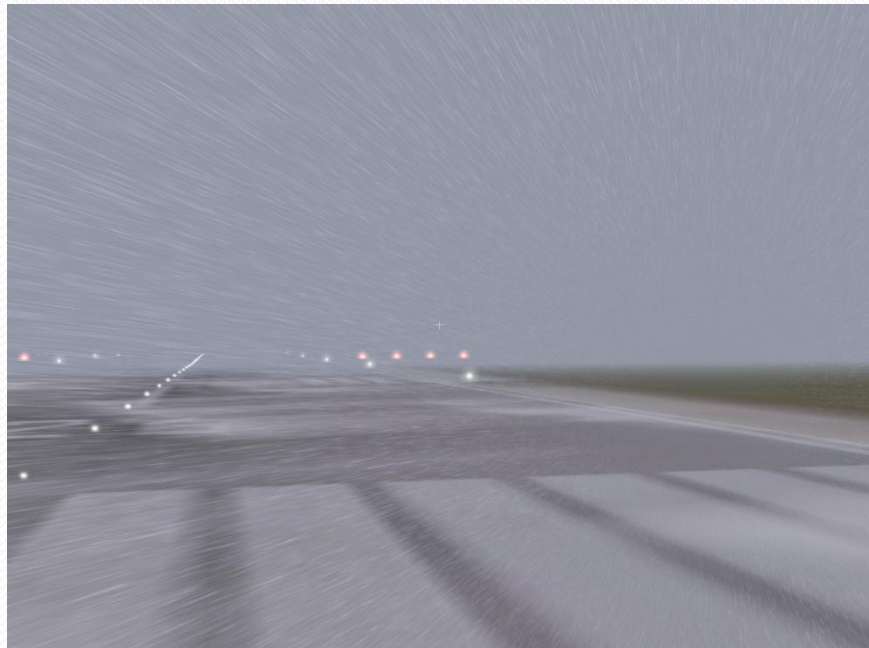
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Team 3. GE Aviation
Alpha Demonstration

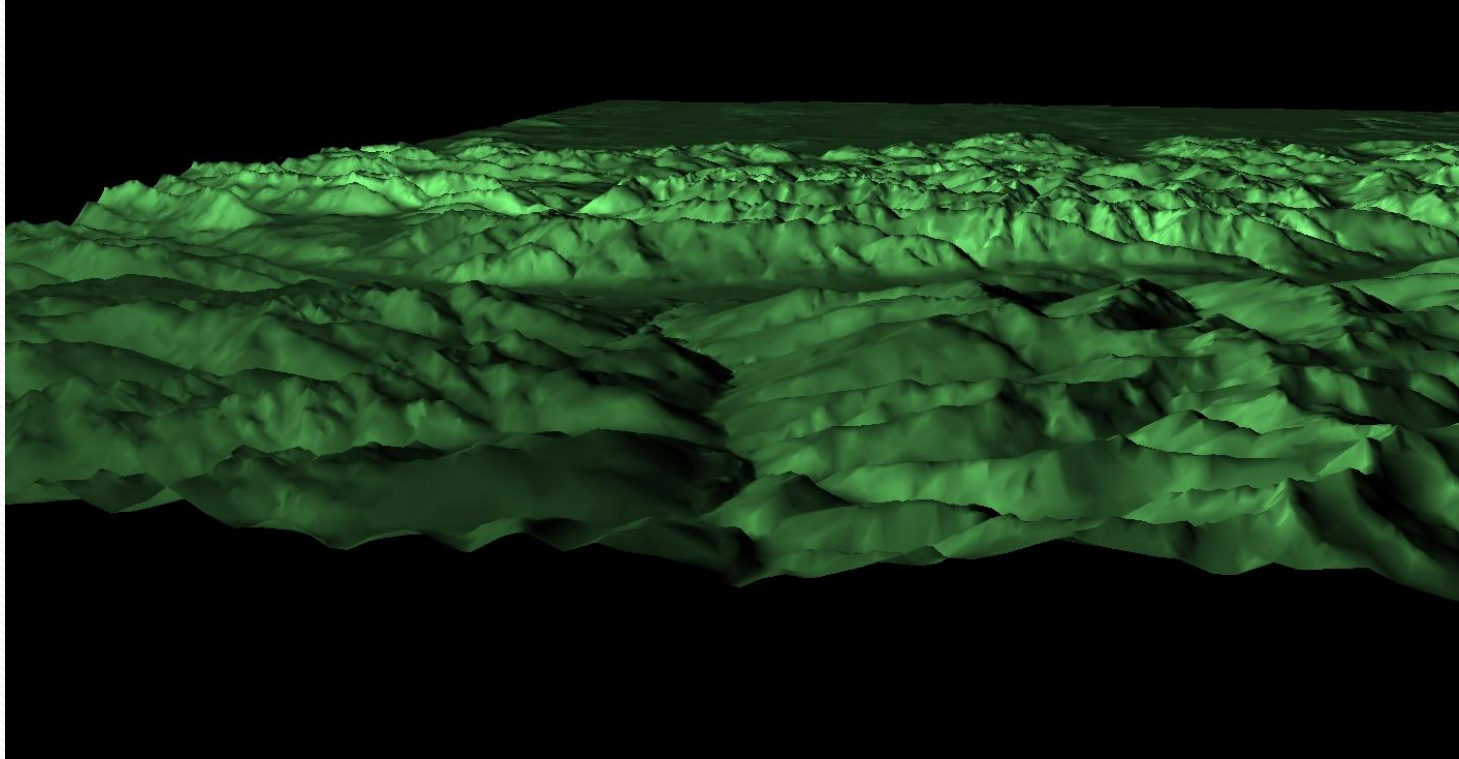
Team 3. GE Aviation

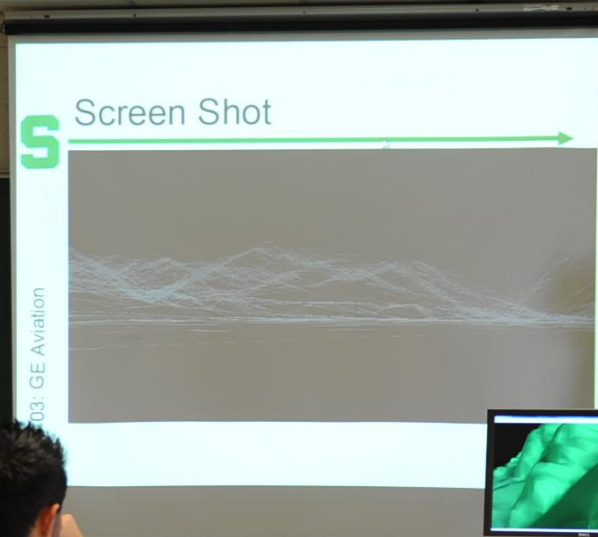
Alpha Demonstration



Team 3. GE Aviation

Alpha Demonstration

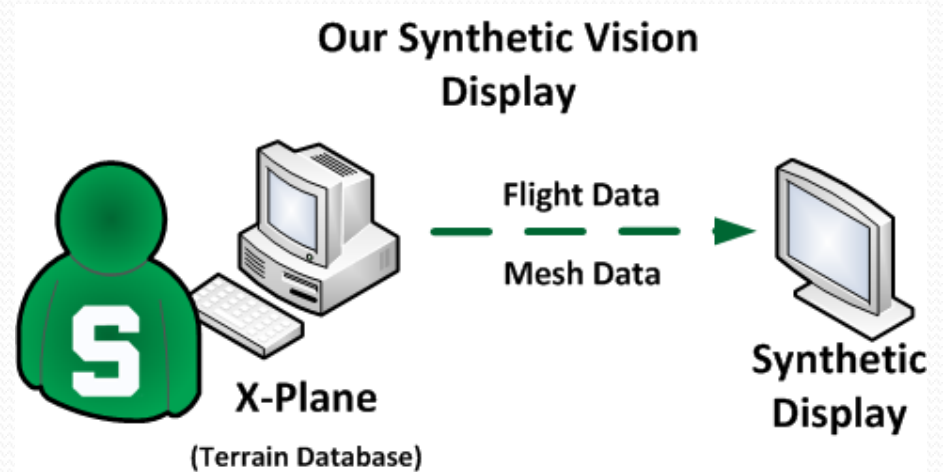
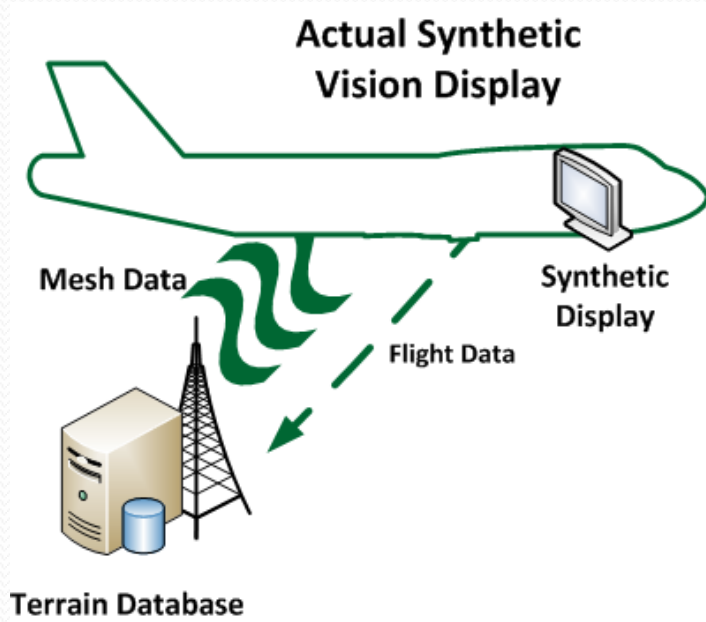




Team 3. GE Aviation
Alpha Demonstration

Team 3. GE Aviation

Beta Demonstration

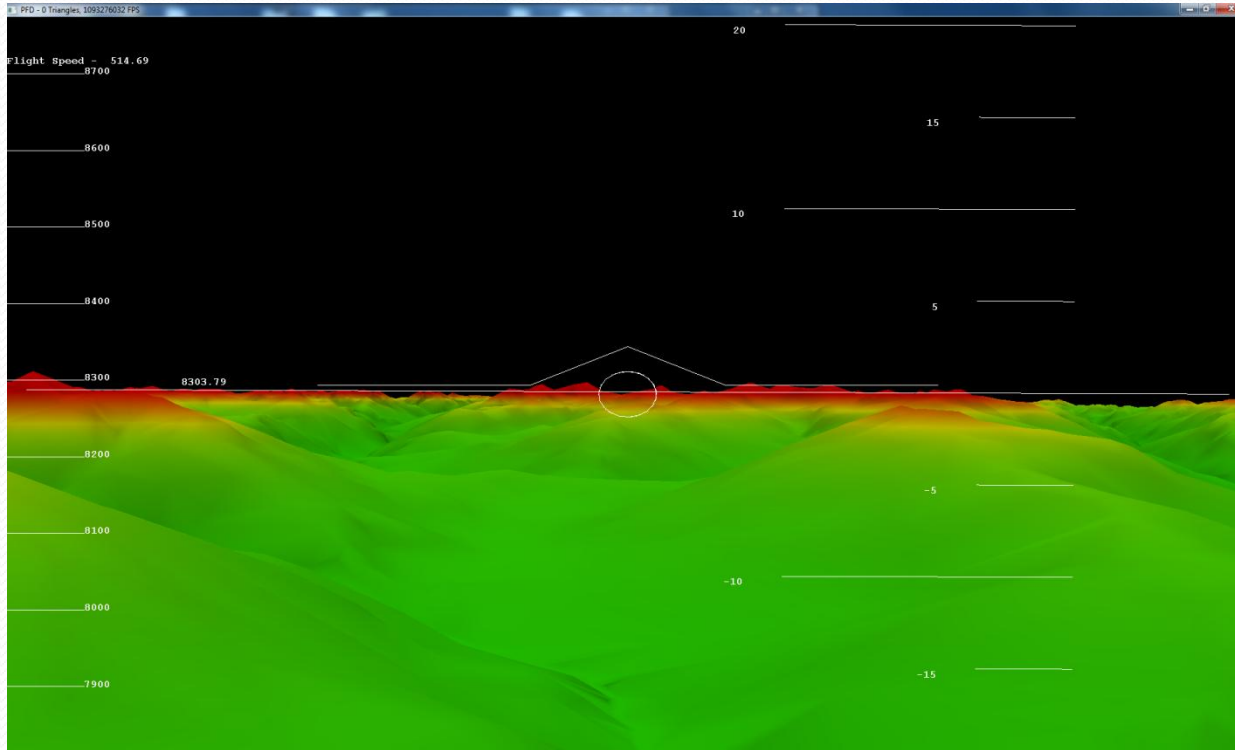




Team 3. GE Aviation
Beta Demonstration

Team 3. GE Aviation

Beta Demonstration





Team 3. GE Aviation
Beta Demonstration



<http://www.meijer.com/home.jsp>



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Page

Safety

Tools



STORES & ADS



View Cart

0 item \$0.00

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4/2

2/6 Built-In DVD Player!

3/2

1/9 Built-In DVD Player!

Team 4. Meijer

Project Overview

ITS Scorecard Dashboard

- ITS (Information Technology Services) Scorecard

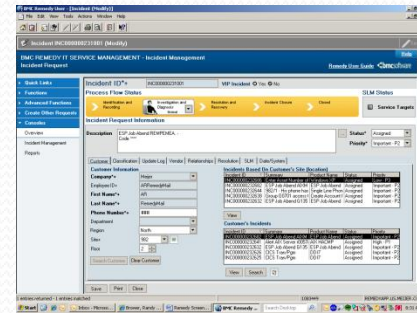
- Existing System
- BMC Remedy Applications
 - Includes Database of ITS Activities
 - Incident (Trouble Tickets) and Change Management


- ITS Scorecard Dashboard

- New Dashboard Interface to Remedy Database
- Features
 - Spotlighting of Actual v . Goal
 - Drill-down
 - Trending (Up/Down and Rolling)
 - Alerts/Notification
 - Consistency of Delivery and Format

- Technologies

- SharePoint 2007
- Visual Studio 2007
- Office 2007
- SQL Server 2008



A group photo of four men standing in front of a large window. From left to right: John Rekoumis in a grey shirt and tie, Matthew Wincek in a light blue shirt and dark blue tie, Kareem Janoudi in a dark striped shirt and khaki pants, and Bing Shi in a white shirt and striped tie. The window behind them shows a cityscape with buildings and a river.

John
Rekoumis

Matthew
Wincek

Kareem
Janoudi

Bing
Shi

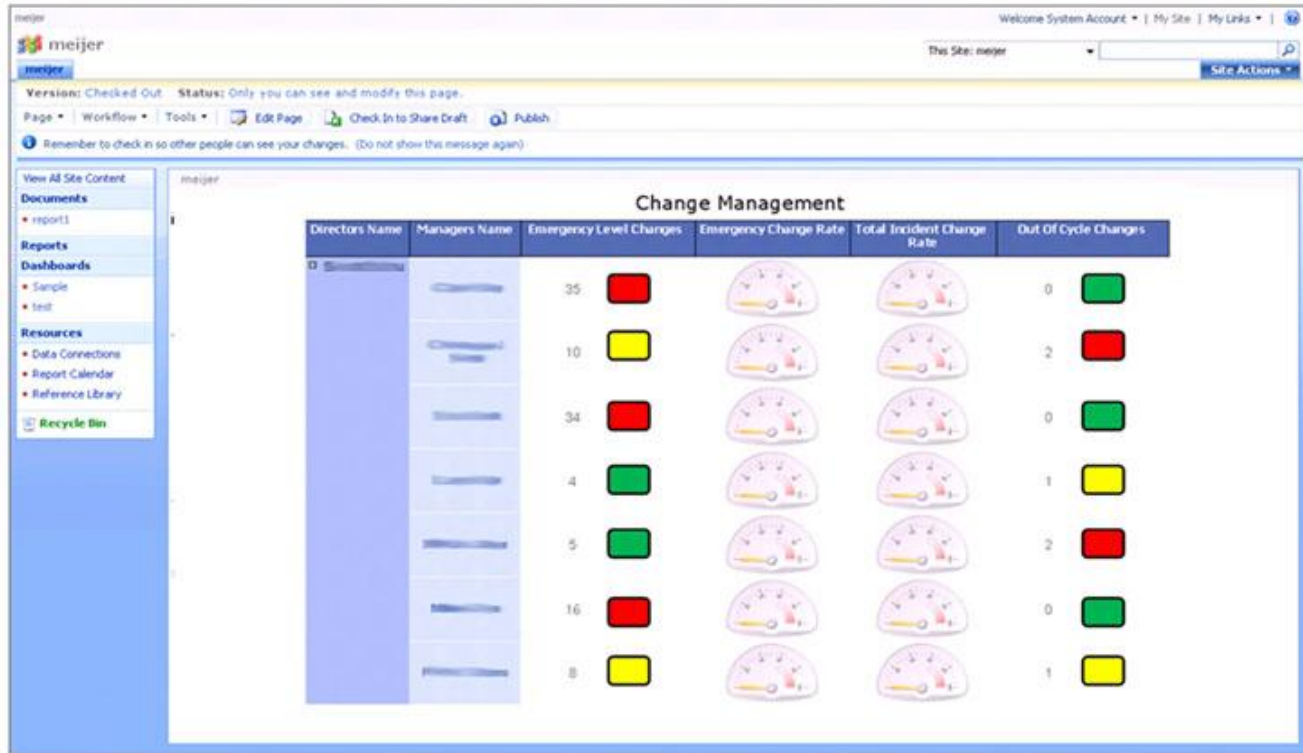
Team 4. Meijer
MSU Team Photo

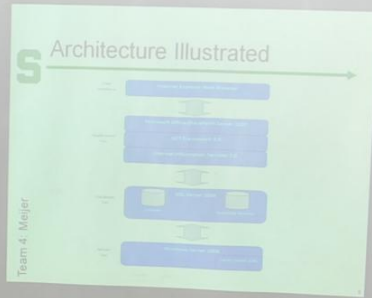


Team 4. Meijer
Project Plan Presentation

Team 4. Meijer

Screen Mockup

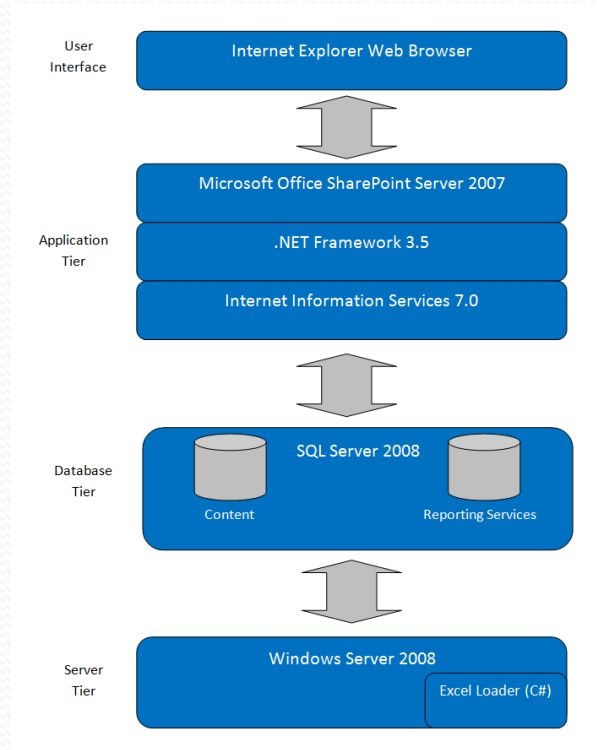




Team 4. Meijer
Project Plan Presentation

Team 4. Meijer

Architecture Diagram

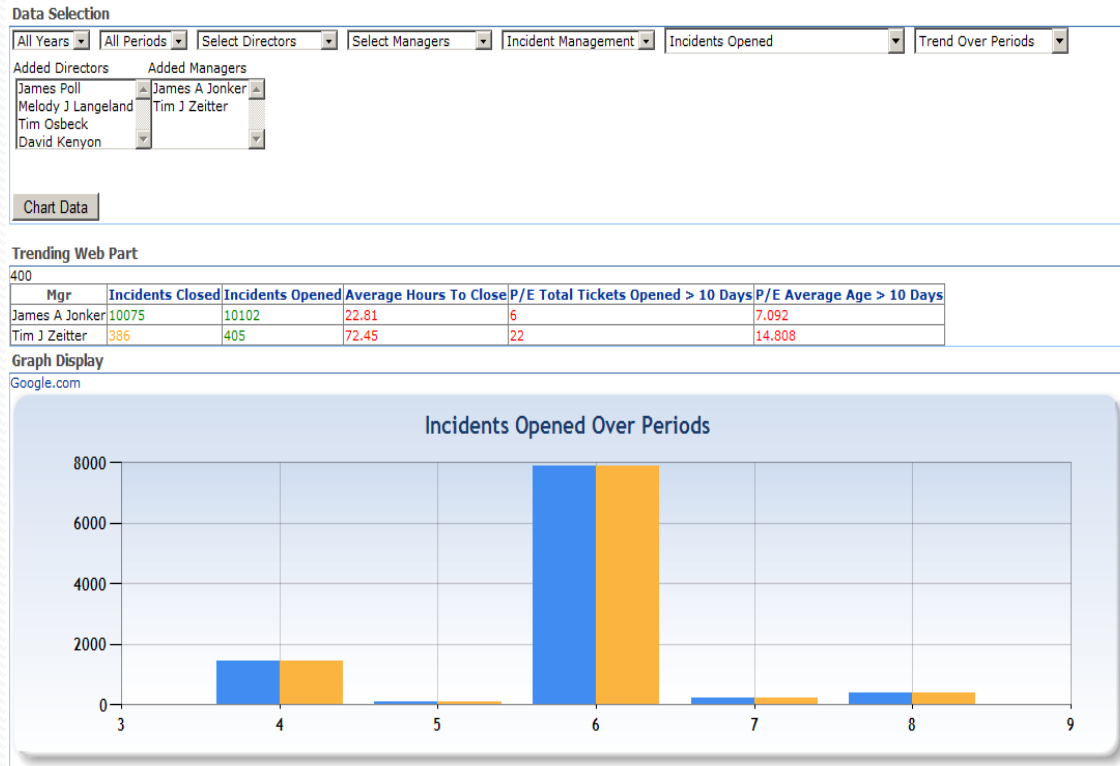




Team 4. Meijer Alpha Demonstration

Team 4. Meijer

Alpha Demonstration



Team 4. Meijer

Alpha Demonstration

Data Selection

All Years | All Periods | Select Directors | Select Managers | Incident Management | Incidents Opened | Trend Over Managers

Added Directors: James Poll, Melody J Langeland, Tim Osbeck, David Kenyon

Added Managers: James A Jonker, Tim J Zeitter

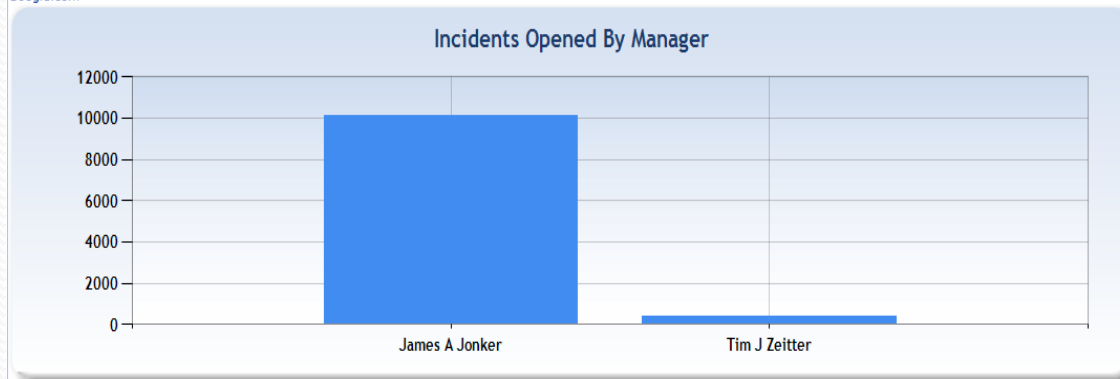
Chart Data

Trending Web Part

400					
Mgr	Incidents Closed	Incidents Opened	Average Hours To Close	P/E Total Tickets Opened > 10 Days	P/E Average Age > 10 Days
James A Jonker	10075	10102	22.81	6	7.092
Tim J Zeitter	386	405	72.45	22	14.808

Graph Display

Google.com





Team 4. Meijer
Alpha Demonstration



Team 4. Meijer Beta Demonstration

Team 4. Meijer

Beta Demonstration





Team 4. Meijer Beta Demonstration

Team 4. Meijer

Beta Demonstration

Meijer ITS Dashboard > Reports Library > ITS Scorecard Dashboard

ITS Scorecard Dashboard

ComparisonTable Web Part

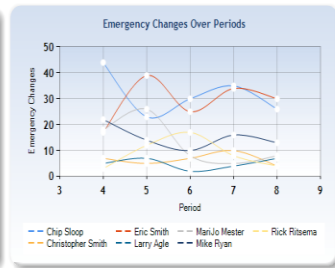
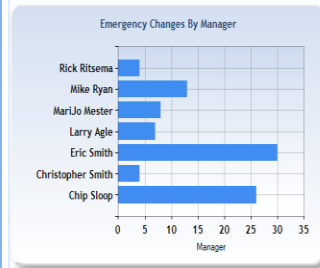
Changes Incidents

Scott Schau 8 2009

Manager TotalChanges EmergencyChanges EmergencyChangeRate IncChangeRate OutOfCycleChanges

Chip Sloop	41	26	63	68	1
Christopher Smith	11	4	36	36	4
Eric Smith	35	30	85	86	1
Larry Agle	13	7	53	85	1
Marijo Mester	19	8	42	58	1
Mike Ryan	29	13	44	55	2
Rick Ritsema	35	4	11	11	1

ComparisonChart Web Part





STORE

MOBILE PHONES

TALK

ROCK

CREATE

ORGANIZE

ACCESSORIES

THE TOUCH TOP
+ CLEAR FLIP PHONE
IT'S CLEARLY YOU

motorola krave™ ZN4

EXPERIENCE IT ▶



MOTOZINE™ ZN5
SHOOT. SHARE. SHOW OFF.

→ EXPERIENCE IT



WATCH IT
WATCH VIDEOS AND SEE THE
ZN4 IN ACTION.

→ SEE IT



HELLOMOTO

GO AHEAD. TALK.
DEFEAT THE NOISE WITH
MOTOROLA BLUETOOTH®
HEADSETS.

→ EXPERIENCE IT

Team 5. Motorola


Project Overview

User Generated Video Service for the iPhone

- User Videos from iPhone to Home TV
 - Users Generate and Upload Videos with iPhone
 - Family and Friends View Videos with Home Cable TV
- Software Components and Features
 - RESTful Video Services
 - Video On Demand (VOD)
 - Social Networking
 - Allow Friends to View Videos
 - View Friends' Videos
 - Cable TV Set Top Box (STB) Interface
- Technologies
 - iPhone Development
 - Advanced Java and JEE
 - RESTful Web Services
 - AJAX
 - Video On Demand (VOD)
 - Multimedia Development



MOTOROLA



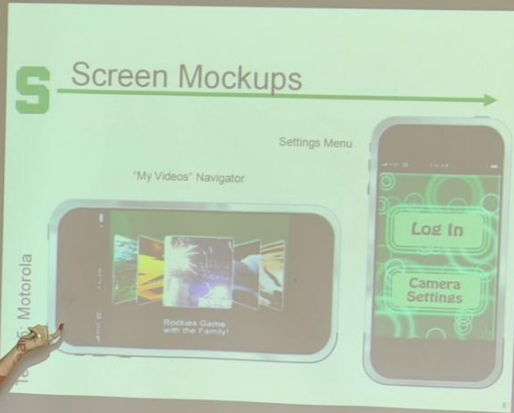
Ryan
Ley

Robert
Palmer

Philip
Deschaine

Mary
Fetsco

Team 5. Motorola
MSU Team Photo



Team 5. Motorola
Project Plan Presentation

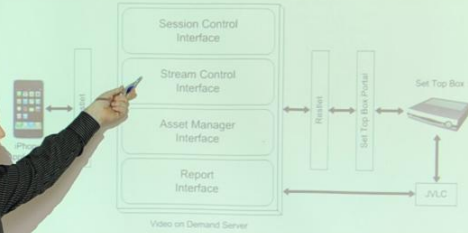
Team 5. Motorola Screen Mockups



Team 5. Motorola Screen Mockups



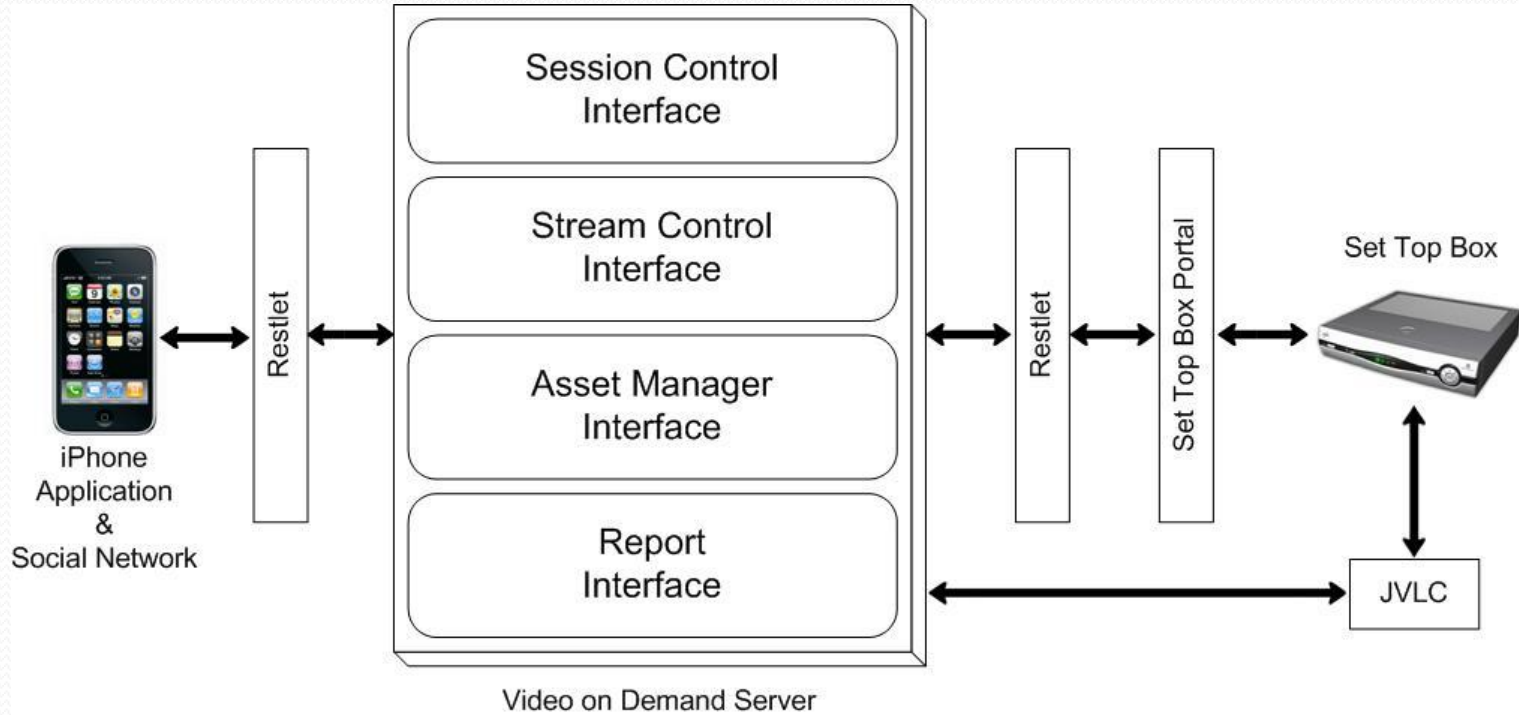
S Architecture Illustrated



Team 5. Motorola
Project Plan Presentation

Team 5. Motorola

Architecture Diagram



S

Screen Shot

Capstone
able

Video Description:
The New Motorist CE All Time
Swat by:

Media:

Media:

Steve Luke Video

Lake Video

Lake Video

Page 1 of 1

Team 5. Motorola

Team 5. Motorola
Alpha Demonstration

Team 5. Motorola

Alpha Demonstration



Video Description:
The Best Movie Of All Time
Sent by:

Hitch

Hitch

Same Lake Video

Lake Video

Lake Video

Page 1 of 1



Team 5. Motorola Alpha Demonstration

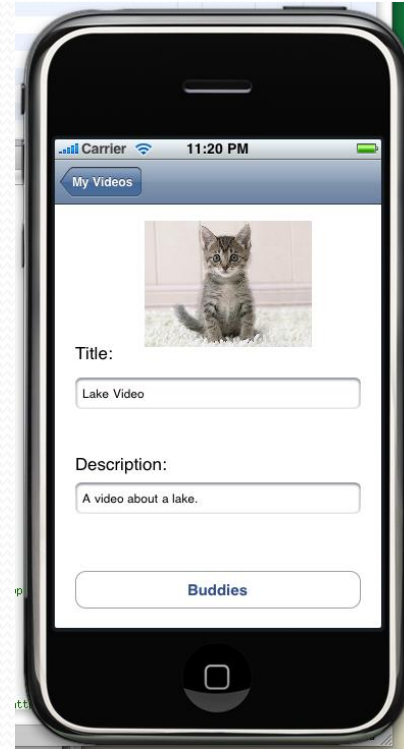
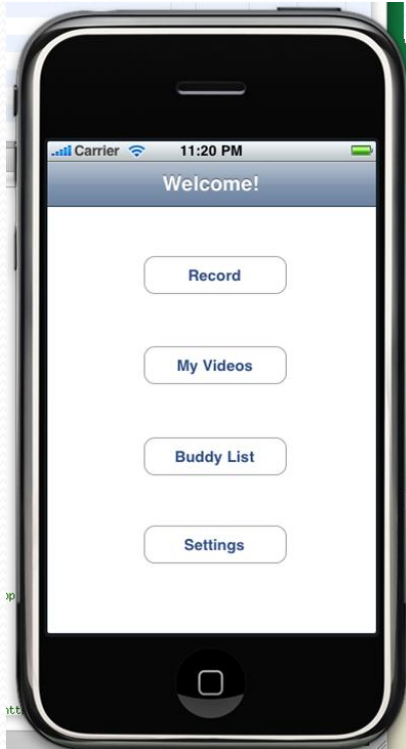
Team 5. Motorola Alpha Demonstration





Team 5. Motorola Beta Demonstration

Team 5. Motorola Beta Demonstration





Team 5. Motorola
Beta Demonstration



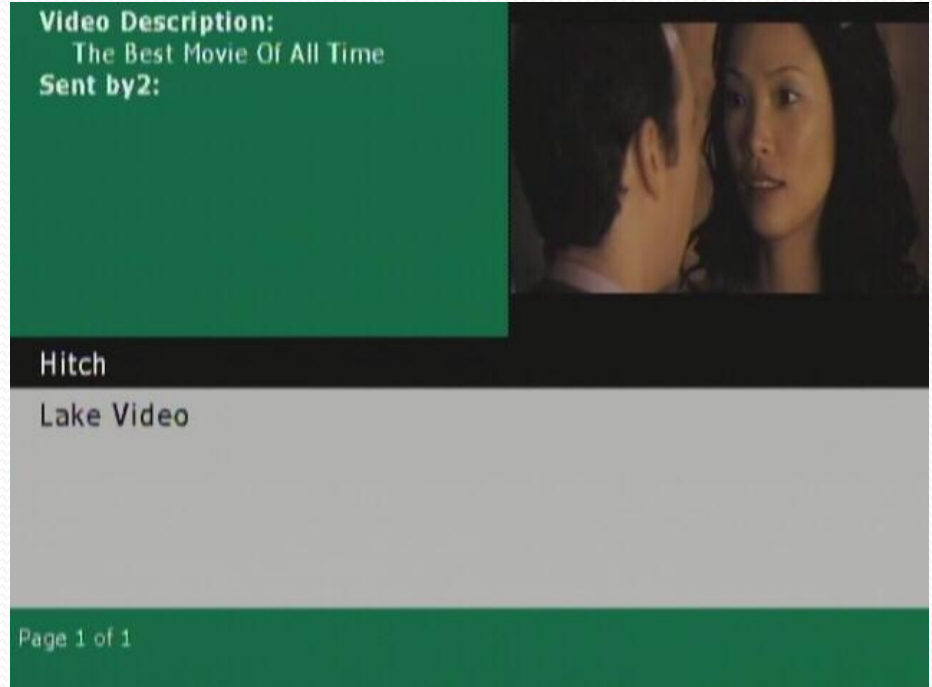
Team 5. Motorola Beta Demonstration

Team 5. Motorola

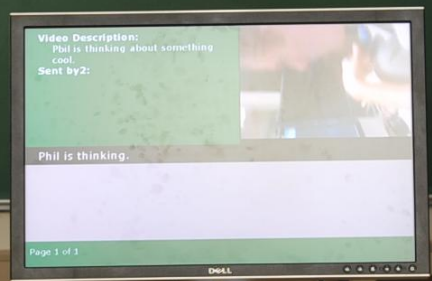
Beta Demonstration



The screenshot displays the Capstone Cable user interface. At the top left is the Capstone Cable logo. To its right is a grey box with the text "Welcome to Capstone Cable!" and links for "Manage your Capstone Cable account," "Sign In," and "Create Account." Below this is a green navigation bar with links: "Learn," "Shop," "TV Programming," "Customers," "User Generated Content" (highlighted), and "About." The main content area has a green header with "Upload" and "Delete" buttons. On the left is a sidebar with "Videos" and "Buddies" sections. The "Videos" section lists "Lake Video." The "Buddies" section lists "kabe," "mary," "phil," "rob," and "ryan." The main area shows a video player for "Lake Video" with a play button, a progress bar at 00:00/00:11, and a description "A video about a lake." To the right of the video player is an "Associated Buddies" list with "mary" and "kabe." At the bottom of the video player area are "Update Video Info" and "Update Description" buttons. The footer contains the text "2009 Capstone Cable | Privacy Policy | Site Map".



The screenshot shows a video player interface. The top section has a green background with the text "Video Description: The Best Movie Of All Time Sent by2:". Below this is a video player showing a scene from the movie "Hitch" with the title "Lake Video" displayed below the video. The bottom section has a green background with the text "Page 1 of 1".



Team 5. Motorola
Beta Demonstration



Language:

English

Deutsch

Français

한국어

日本語

SEARCH

Products

Downloads

Support

Community

Company

Purchase



SNAGIT 9

Capture your digital lifestyle.

[learn more](#)

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Screen and Presentation Recording, Lecture Capture

Camtasia Studio



Easily record your screen to create training, demo, and presentation videos.

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Camtasia Relay *Beta*



Effortlessly record your lecture or presentation and publish in a single click.

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Screen Capture

Snagit



Capture, edit, and share exactly what you see on your screen.

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User Research and Usability Testing

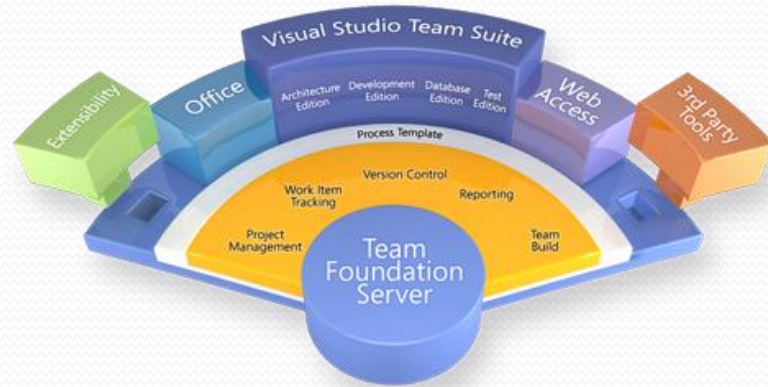
Media Hosting

Team 6. TechSmith

Project Overview

Microsoft Team System Custom Client

- Microsoft Team System
 - Application Life Cycle Management
 - Integrated Into Visual Studio
 - Too Limited for TechSmith Environment
- Create Custom Team System Client
 - Support Multi-Platform Applications
 - Support Multi-Disciplinary Teams
 - Software Engineers
 - User Experience Designers
 - Test Specialists
 - Information Developers
 - Project Managers
- Technologies
 - Microsoft Team System 2008
 - Microsoft Silverlight



 **TechSmith**

- Microsoft Team Foundation Server
- SCRUM Agile Development Methodology

A group photo of four men standing in front of a large computer monitor. The monitor displays the TechSmith website, which features the SNAGIT 9 software interface. The men are dressed in business attire, including shirts and ties. The man on the far left is wearing a white shirt and a blue tie. The man next to him is wearing a light blue shirt and a dark tie. The man next to him is wearing a dark blue shirt and a dark tie. The man on the far right is wearing a light-colored shirt and an orange tie. The background shows a window and some office equipment.

Jonathan
Anderson

Eric
Henry

Paul
Dziadzio

Daniel
Laboy

Team 6. TechSmith
MSU Team Photo



Team 6. TechSmith
Project Plan Presentation

Team 6. TechSmith

Screen Mockup

TechSmith Team Foundation Client

Server
tfs-app01

Project
Camtasia

Username
test

Password

☐ Remember me

Login

TechSmith Team Foundation Client Project: Camtasia

Home Search New Work Item Reports Files

ID or Keyword(s):

Start Date: <MM/yyyy> End Date: <MM/yyyy>

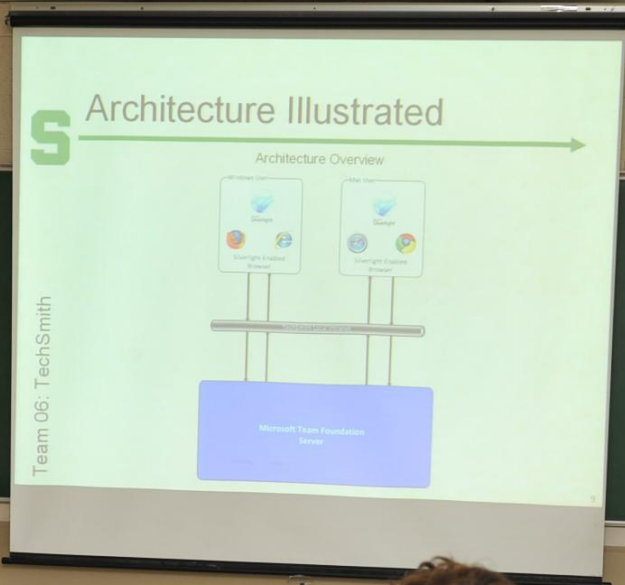
☐ Items assigned to me ☐ Search within description ☐ Show only bugs

Item State:
☐ Active ☐ Cancelled ☐ Closed ☐ Deferred ☐ Deleted

☐ Done ☐ In Progress ☐ Not Done ☐ Resolved ☐ Testing

Sprint: TextBox

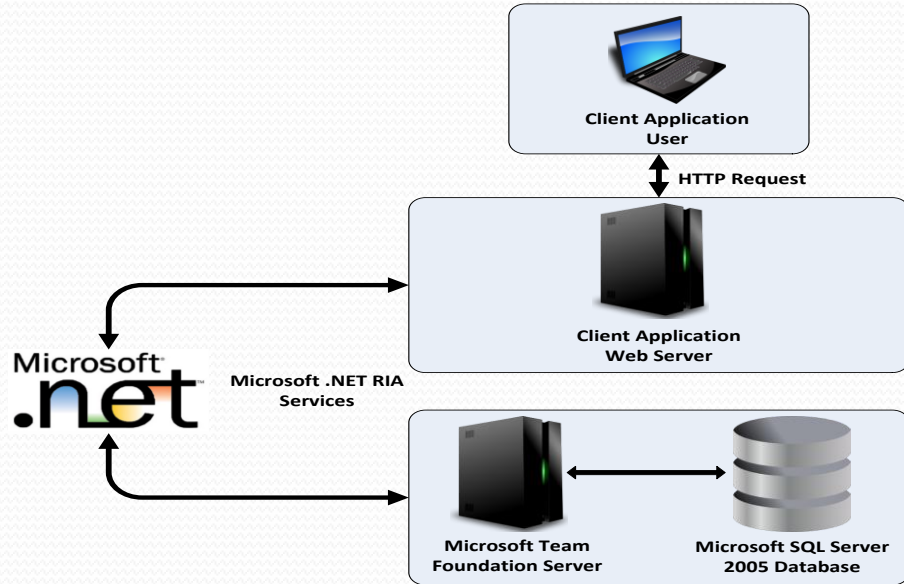
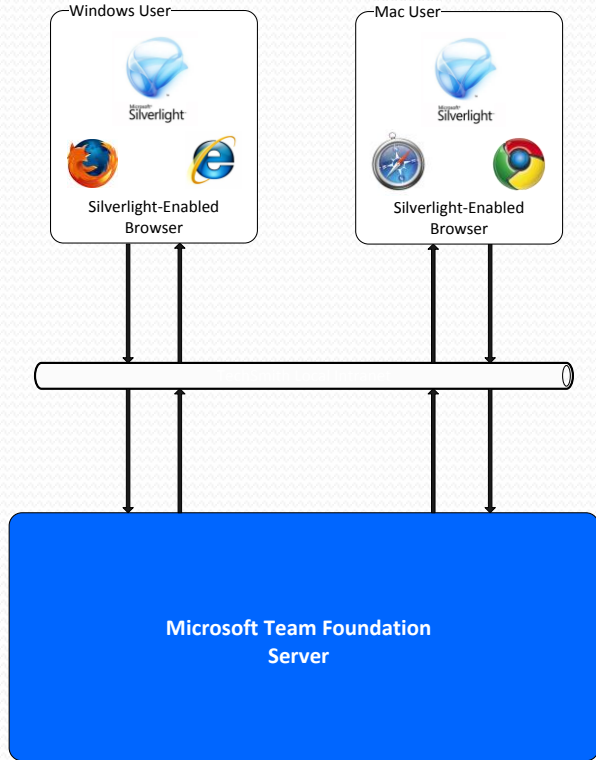
My Queries: Team Queries: Search



Team 6. TechSmith
Project Plan Presentation

Team 6. TechSmith

Architecture Illustrated





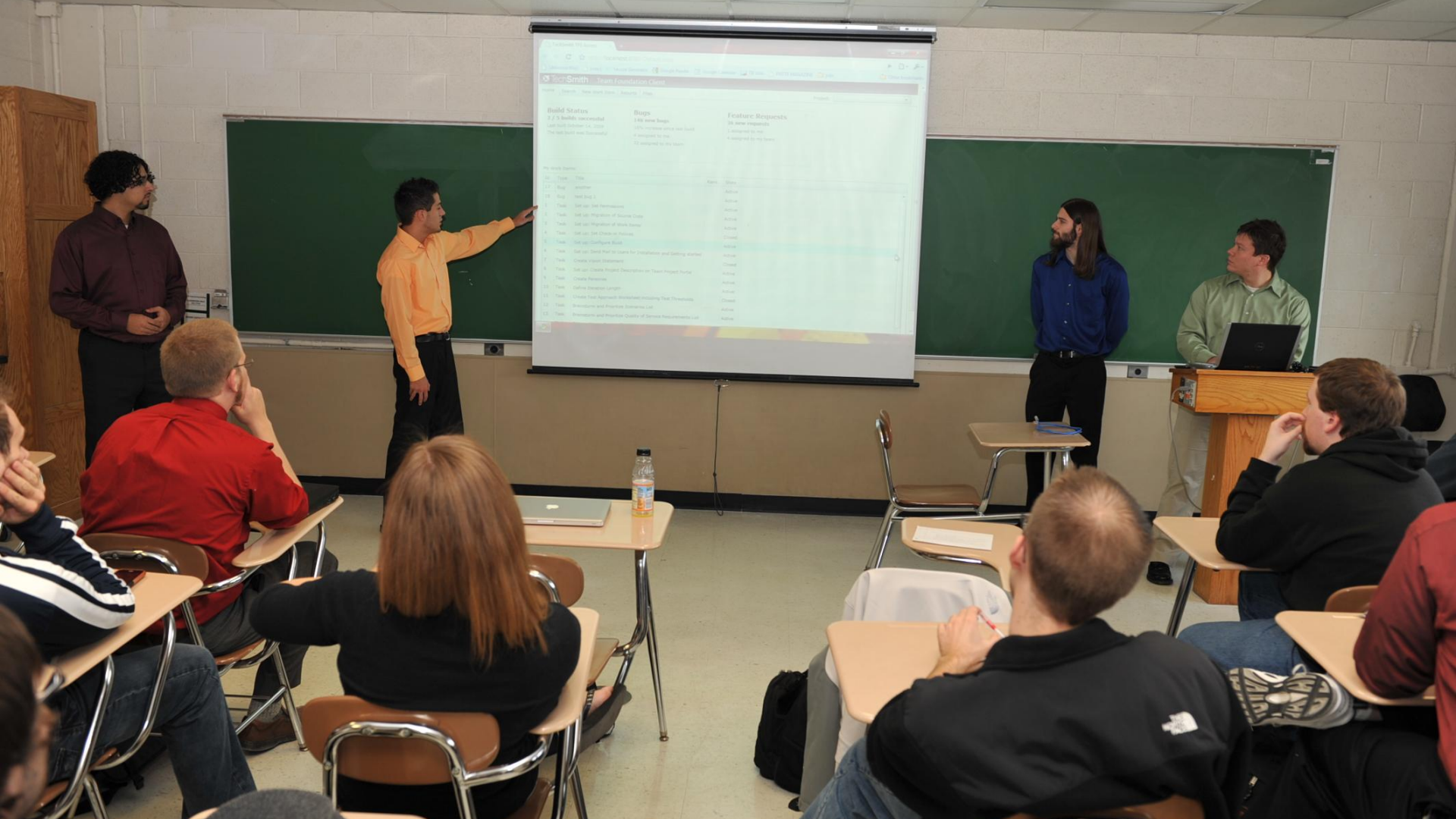
Team 6. TechSmith
Alpha Demonstration

Team 6. TechSmith

Alpha Demonstration

The screenshot shows a web browser window titled "TechSmith TFS Access - Mozilla Firefox" with the address bar displaying "http://localhost/Default.aspx". The application interface includes a navigation bar with "Home", "Search", "New Work Item", "Reports", and "Files" tabs. A "Project:" dropdown menu is located on the right. The main content area is divided into three summary boxes: "Build Status" (3 / 5 builds successful, last built October 14, 2009), "Bugs" (146 new bugs, 16% increase since last build, 4 assigned to me, 32 assigned to my team), and "Feature Requests" (36 new requests, 1 assigned to me, 4 assigned to my team). Below these is a section titled "My Work Items:" containing a table with columns for Id, Type, Title, Rank, and State. The table lists 15 work items, including bugs and tasks, with their respective states (Active or Closed). The status bar at the bottom indicates "Transferring data from localhost..."

Id	Type	Title	Rank	State
17	Bug	another		Active
18	Bug	test bug 1		Active
1	Task	Set up: Set Permissions		Active
2	Task	Set up: Migration of Source Code		Active
3	Task	Set up: Migration of Work Items		Active
4	Task	Set up: Set Check-in Policies		Closed
5	Task	Set up: Configure Build		Active
6	Task	Set up: Send Mail to Users for Installation and Getting started		Active
7	Task	Create Vision Statement		Closed
8	Task	Set up: Create Project Description on Team Project Portal		Active
9	Task	Create Personas		Active
10	Task	Define Iteration Length		Active
11	Task	Create Test Approach Worksheet including Test Thresholds		Closed
12	Task	Brainstorm and Prioritize Scenarios List		Active
13	Task	Brainstorm and Prioritize Quality of Service Requirements List		Active
14	Task	Set up: Create Project Structure		Active
15	Task	Create Iteration Plan		Active



Team Foundation Class

ID	Title	Status
1.1	Build Status	Active
1.2	Bugs	Active
1.3	Feature Requests	Active
1.4	Get an API endpoint	Active
1.5	Get an API endpoint of a new class	Active
1.6	Get an API endpoint of a new class	Active
1.7	Get an API endpoint of a new class	Active
1.8	Get an API endpoint of a new class	Active
1.9	Get an API endpoint of a new class	Active
1.10	Get an API endpoint of a new class	Active
1.11	Get an API endpoint of a new class	Active
1.12	Get an API endpoint of a new class	Active
1.13	Get an API endpoint of a new class	Active
1.14	Get an API endpoint of a new class	Active
1.15	Get an API endpoint of a new class	Active
1.16	Get an API endpoint of a new class	Active
1.17	Get an API endpoint of a new class	Active
1.18	Get an API endpoint of a new class	Active
1.19	Get an API endpoint of a new class	Active
1.20	Get an API endpoint of a new class	Active

Team 6. TechSmith

Alpha Demonstration

The screenshot shows the TechSmith TFS Access web application running in a Mozilla Firefox browser. The address bar shows the URL <http://localhost/Default.aspx>. The application has a navigation bar with tabs: Home, Search, New Work Item, Reports, and Files. The 'Home' tab is selected. Below the navigation bar, there are filters for 'Items Assigned to Me', 'Search Within Description', and 'Show Only Bugs'. There are also dropdown menus for 'Item State', 'Sprint', and 'Show Only'. To the right, there are date pickers for 'Start Date' and 'End Date'. Below these filters is a search bar labeled 'ID or Keyword(s):' with a 'Search' button. The main content area displays a table of work items.

ID	Work Item Type	Title	Rank	State	Assigned To
1	Task	Set up: Set Permissions		Active	Administrator
2	Task	Set up: Migration of Source Code		Active	Administrator
3	Task	Set up: Migration of Work Items		Active	Administrator
5	Task	Set up: Configure Build		Active	Administrator
6	Task	Set up: Send Mail to Users for Installation and Getting started		Active	Administrator
8	Task	Set up: Create Project Description on Team Project Portal		Active	Administrator
9	Task	Create Personas		Active	Administrator
10	Task	Define Iteration Length		Active	Administrator
12	Task	Brainstorm and Prioritize Scenarios List		Active	Administrator
13	Task	Brainstorm and Prioritize Quality of Service Requirements List		Active	Administrator
14	Task	Set up: Create Project Structure		Active	Administrator
15	Task	Create Iteration Plan		Active	Administrator
16	Bug	Search doesn't work		Active	jon
17	Bug	another		Active	Administrator
18	Bug	test bug 1		Active	Administrator
19	Risk	Team Foundation Server		Active	jon
20	Quality of Service Requirement	This thing needs to work		Active	eric
21	Risk	Complexity of project		Active	dan
22	Risk	Work Item Form Creation	100	Active	paul

Transferring data from localhost...



TaskSmith Team Foundation Client

My Tasks (137)

ID	Title	Status	Due
1	Set up: Set Permissions	Active	10/17/2009 11:26:04 AM
2	Set up: Migration of Source Code	Active	10/17/2009 11:26:04 AM
3	Set up: Migration of Build Scripts	Active	10/17/2009 11:26:04 AM
4	Set up: Set Check-in Policies	Closed	10/17/2009 11:26:04 AM
5	Set up: Configure Build	Active	10/17/2009 11:26:04 AM
6	Set up: Send Test to Users for Installation and Getting started	Closed	10/17/2009 11:26:04 AM
7	Create User Statement	Closed	10/17/2009 11:26:04 AM
8	Set up: Create Project Description on Team Project Portal	Active	10/17/2009 11:26:04 AM
9	Create Projects	Active	10/17/2009 11:26:04 AM
10	Define Iteration Length	Active	10/17/2009 11:26:04 AM
11	Check Test Approach Worksheet including Test Thesaurus	Closed	10/17/2009 11:26:04 AM
12	Brainstorm and Prioritize Scenarios List	Active	10/17/2009 11:26:04 AM
13	Brainstorm and Prioritize Quality of Service Requirements List	Active	10/17/2009 11:26:04 AM
14	Set up: Create Project Structure	Active	10/17/2009 11:26:04 AM
15	Create Iteration Plan	Active	10/17/2009 11:26:04 AM
16	Testing New Task	Active	10/17/2009 11:26:04 AM
17	A Very Specific Task Item	Active	10/17/2009 11:26:04 AM

My Tasks (141)

ID	Title	Pro Status	Created Date
17	another	Active	10/17/2009 11:26:04 AM
18	Test	Active	10/17/2009 11:26:04 AM
19	Random Bug	Active	10/17/2009 11:26:04 AM
20	Index	Active	10/17/2009 11:26:04 AM
21	Index	Active	10/17/2009 11:26:04 AM
22	Index	Active	10/17/2009 11:26:04 AM
23	Index	Active	10/17/2009 11:26:04 AM
24	Index	Active	10/17/2009 11:26:04 AM
25	Index	Active	10/17/2009 11:26:04 AM
26	Index	Active	10/17/2009 11:26:04 AM
27	Index	Active	10/17/2009 11:26:04 AM
28	Index	Active	10/17/2009 11:26:04 AM
29	Index	Active	10/17/2009 11:26:04 AM
30	Index	Active	10/17/2009 11:26:04 AM
31	Index	Active	10/17/2009 11:26:04 AM
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94	Index	Active	10/17/2009 11:26:04 AM
95	Index	Active	10/17/2009 11:26:04 AM
96	Index	Active	10/17/2009 11:26:04 AM
97	Index	Active	10/17/2009 11:26:04 AM
98	Index	Active	10/17/2009 11:26:04 AM
99	Index	Active	10/17/2009 11:26:04 AM
100	Index	Active	10/17/2009 11:26:04 AM

Team 6. TechSmith
Beta Demonstration

Team 6. TechSmith

Beta Demonstration

The screenshot displays the TechSmith Team Foundation Client interface. At the top, there's a navigation bar with 'Home', 'Search', 'New Work Item', and 'Reports' tabs. A 'Project:' dropdown menu is set to 'test'. The main content area is divided into three summary boxes: 'Build Status' (3 / 5 builds successful, last built October 14, 2009), 'Bugs' (146 new bugs, 16% increase since last build, 4 assigned to me, 32 assigned to my team), and 'Feature Requests' (36 new requests, 1 assigned to me, 4 assigned to my team). Below these are two tables: 'My Tasks' and 'My Bugs'.

Build Status
3 / 5 builds successful
Last built October 14, 2009
The last build was Successful

Bugs
146 new bugs
16% increase since last build
4 assigned to me
32 assigned to my team

Feature Requests
36 new requests
1 assigned to me
4 assigned to my team

My Tasks:

Id	Title	State	Start
1	Set up: Set Permissions	Active	10/1/
2	Set up: Migration of Source Code	Active	10/1/
3	Set up: Migration of Work Items	Active	10/1/
4	Set up: Set Check-in Policies	Closed	10/1/
5	Set up: Configure Build	Active	10/1/
6	Set up: Send Mail to Users for Installation and Getting started	Active	10/1/
7	Create Vision Statement	Closed	10/1/
8	Set up: Create Project Description on Team Project Portal	Active	10/1/
9	Create Personas	Active	10/1/
10	Define Iteration Length	Active	10/1/
11	Create Test Approach Worksheet including Test Thresholds	Closed	10/1/
12	Brainstorm and Prioritize Scenarios List	Active	10/1/
13	Brainstorm and Prioritize Quality of Service Requirements List	Active	10/1/
14	Set up: Create Project Structure	Active	10/1/
15	Create Iteration Plan	Active	10/1/

My Bugs:

Id	Title	Pri	State	Start Date
17	another		Active	10/1/2009 11:26:34 PM
18	test bug 1		Active	10/2/2009 7:20:47 PM
46	Test		Active	11/7/2009 4:13:07 PM
47	Random Bug		Active	11/7/2009 4:57:26 PM



Standard MS Access

https://localhost:1000/Default.aspx

TechSmith Team Foundation Client

Home Search New Work Item Project List

Work Item Type: Bug

New Bug

Title:

Classification:

Area:

Version:

Status:

Assigned To: State: Owner:

Priority: Assignee: Reporter:

Description History Links File Attachments Details

Description:

Add Bug

Team 6. TechSmith
Beta Demonstration

Team 6. TechSmith

Beta Demonstration

The screenshot displays the TechSmith Team Foundation Client application. The title bar reads 'TechSmith | Team Foundation Client'. The interface includes a navigation bar with 'Home', 'Search', and 'New Work Item' tabs. A 'Project:' dropdown menu is set to 'test'. The 'Work Item Type:' dropdown is set to 'Bug'. The 'New Bug' form contains the following fields:

- Title:** testBug
- Classification:**
 - Area:** root
 - Iteration:** (empty dropdown)
- Status:**
 - Assigned to:** Administrator
 - State:** Active
 - Triage:** (empty dropdown)
 - Rank:** 2
 - Reason:** (empty dropdown)
 - Priority:** (empty dropdown)
- Description:** a new testBug to try out add new bug!

At the bottom right of the form is an 'Add Bug' button. The bottom of the window shows tabs for 'Description', 'History', 'Links', 'File Attachments', and 'Details', with 'Description' currently selected.

**Count on it.**

Choose another country/region:



Site Search:



GO

Homeowner**Golf Course Management****Commercial/Contractor****Sports Fields & Grounds****Professional Irrigation****Product Information**

- ▶ Homeowner
- ▶ Golf Course Management
- ▶ Commercial/Contractor
- ▶ Sports Fields & Grounds
- ▶ Professional Irrigation

Helpful Links

- ▶ Buy online at ShopToro.com
- ▶ Toro worldwide locator
- ▶ The Toro Company

Toro turf equipment and irrigation systems get the fields ready for Football Season!**Highlights****Toro Worldwide**

Choose another country/region:

U.S. - English



GO

Dealer/Distributor Locator

Where to Buy, Service or Rent Your Toro

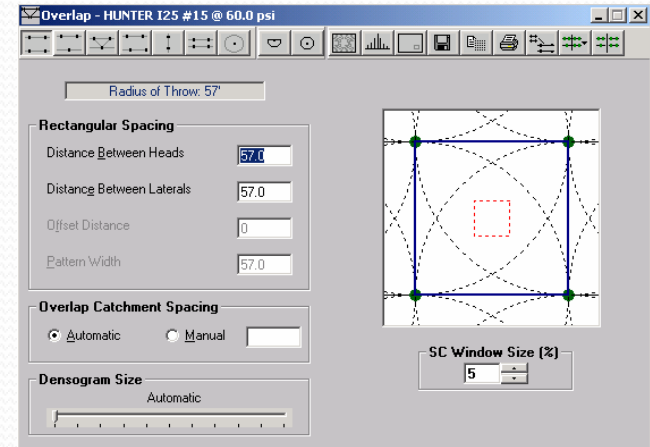
- ▶ USA or Canada
- ▶ Toro Worldwide

Team 7. Toro

Project Overview

Irrigation Distribution Uniformity Analysis

- Irrigation Nozzle Development Testing
 - 20' x 20' Grid Centered on Test Nozzle
 - Water Collection Pressure Sensors at Each Grid Point
- Existing System
 - Data Stored in Comma Separated File
 - Analyzed Using Space Pro Software
- Proposed System
 - Custom Web-Based Analysis Tool
 - Automatic and Manual Modes
 - Edit Datasets
 - Display Graphs and Statistics
- Technologies
 - Visual Studio 2008
 - Microsoft Access
 - Space Pro
 - LabVIEW



Count on it.

A photograph of three men sitting at a long wooden table in an office environment. The man on the left is wearing a light blue shirt, a red patterned tie, and glasses. The man in the middle is wearing a maroon shirt and a patterned tie. The man on the right is wearing a light blue shirt and a grey striped tie. The background shows office equipment and a whiteboard.

James
Harrison

Andrew Giannini

Brett
Janer

Team 7. Toro
MSU Team Photo

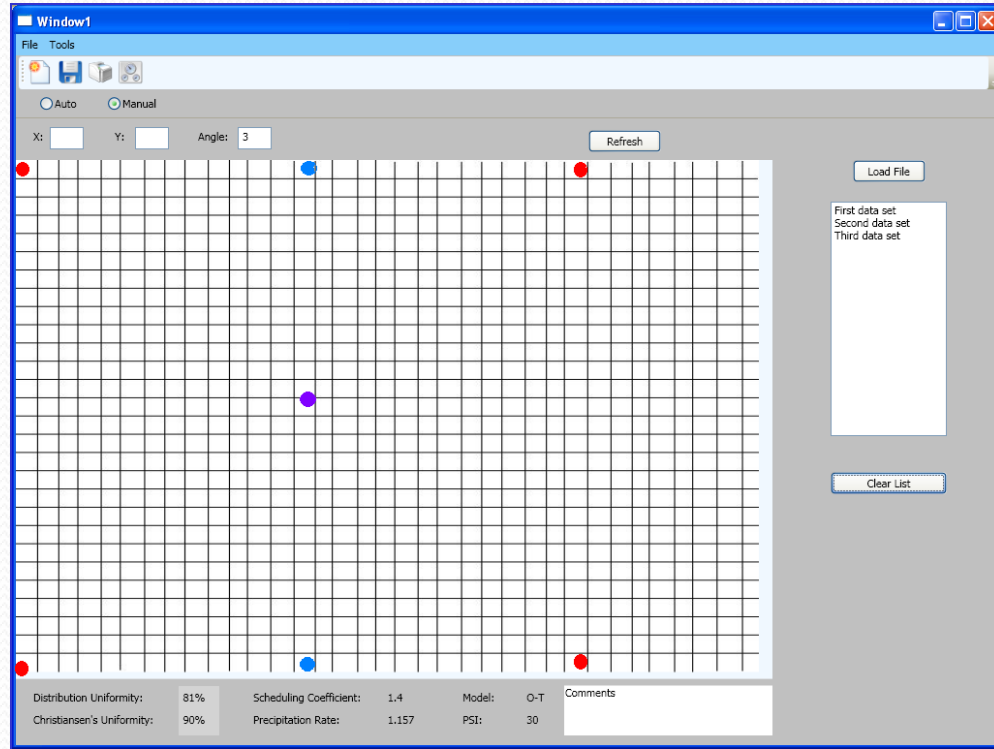


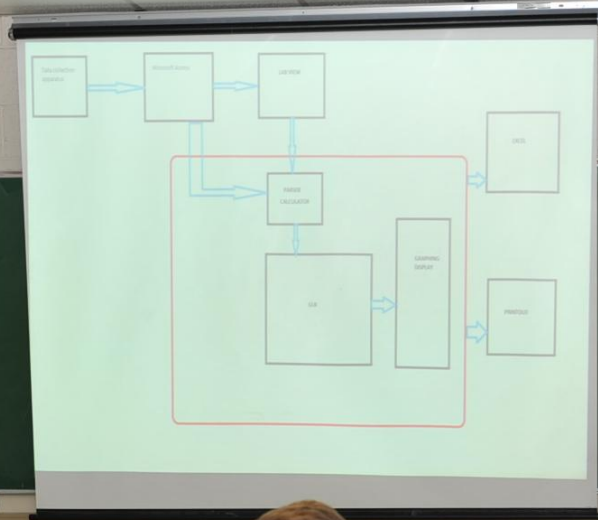
Team 7. Toro

Project Plan Presentation

Team 7. Toro

Screen Mockup

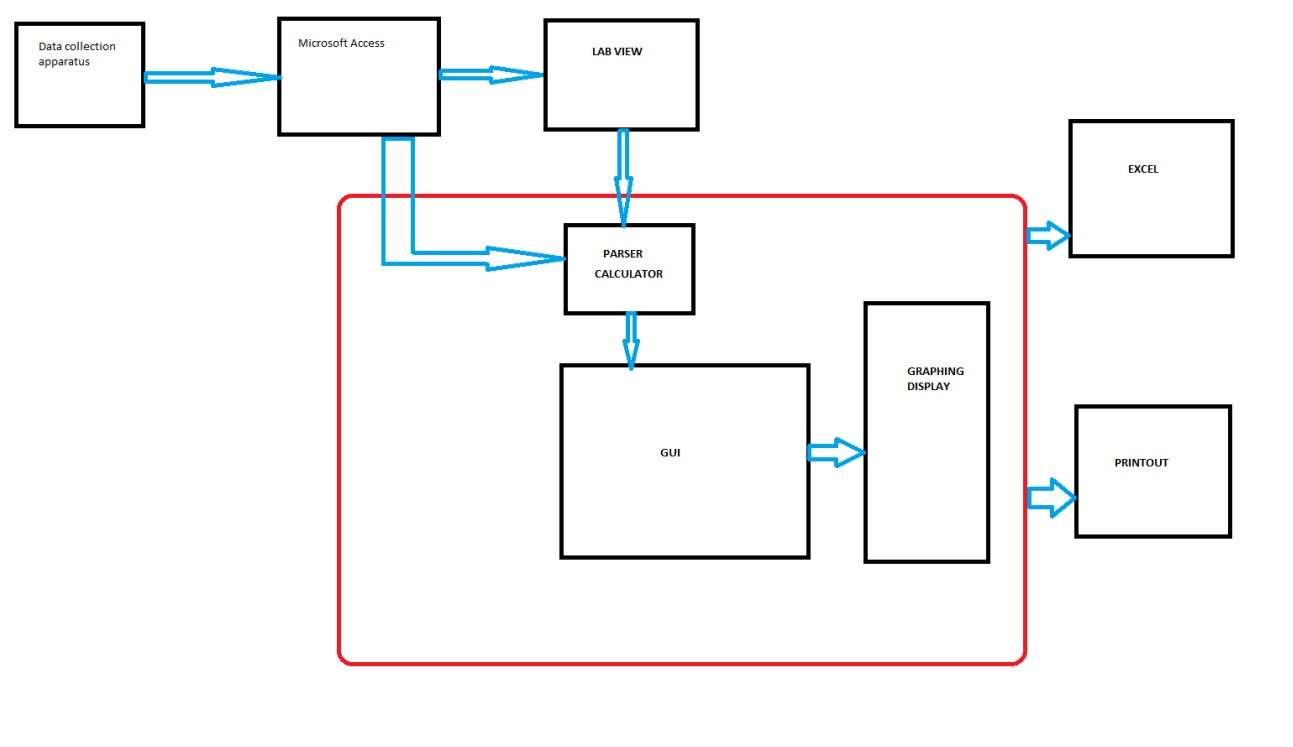


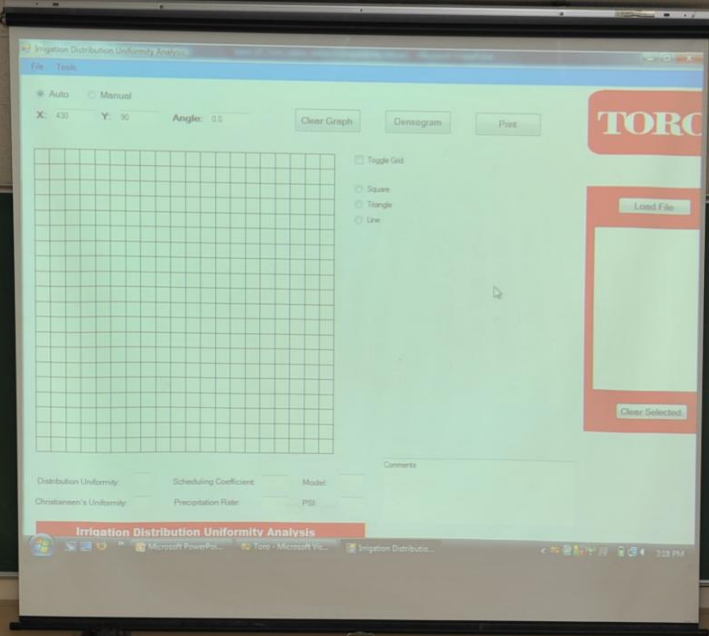


Team 7. Toro
Project Plan Presentation

Team 7. Toro

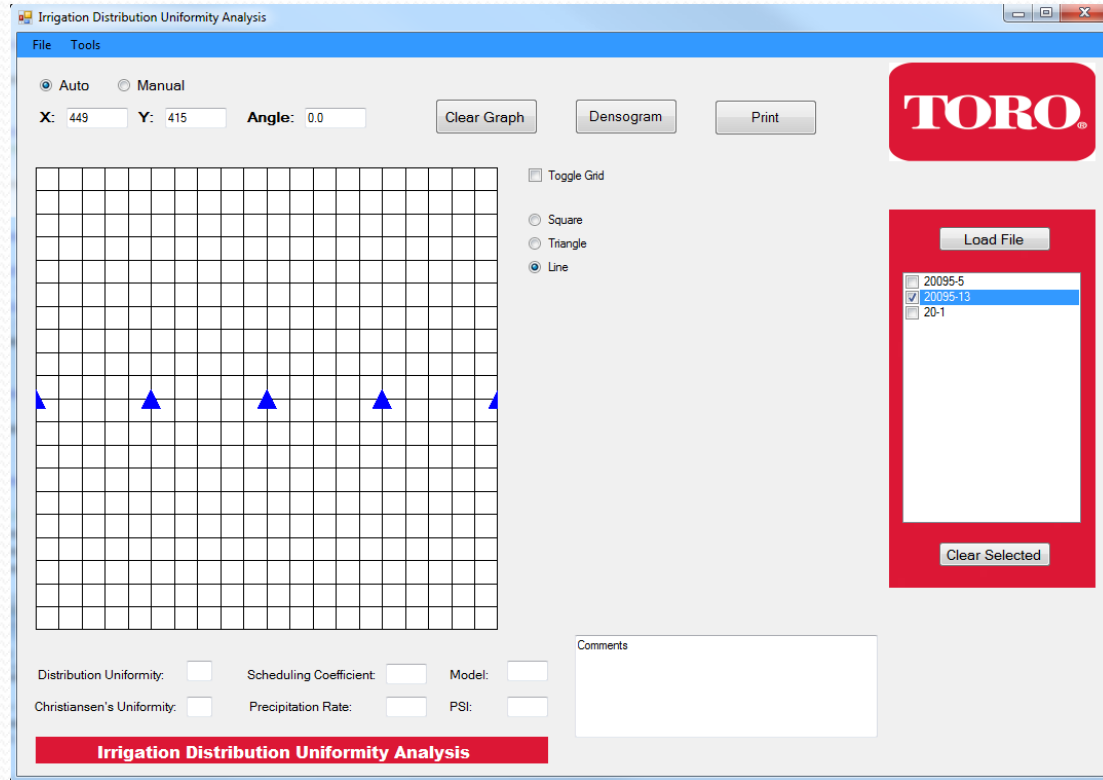
Architecture Diagram

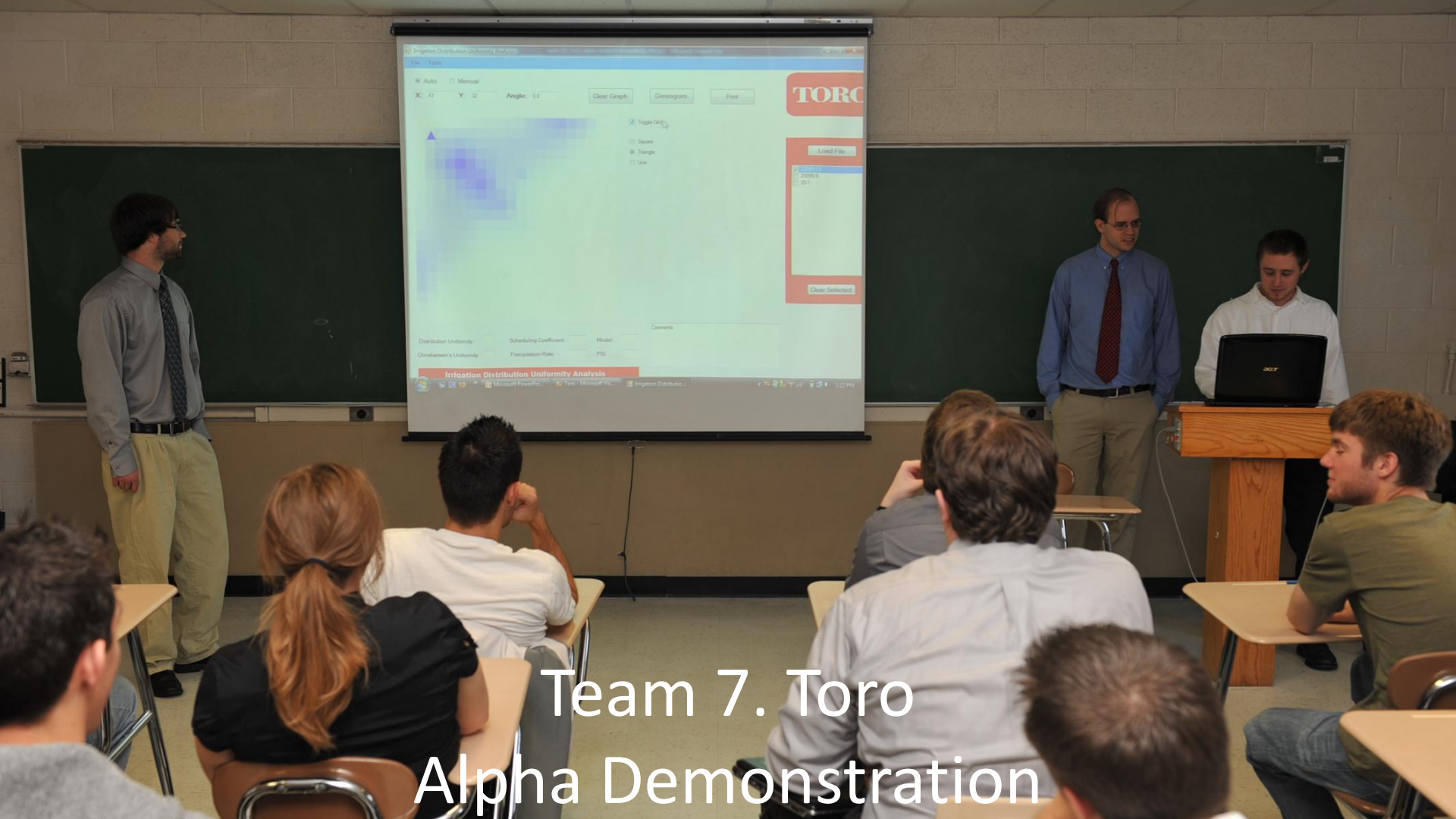




Team 7. Toro

Alpha Demonstration

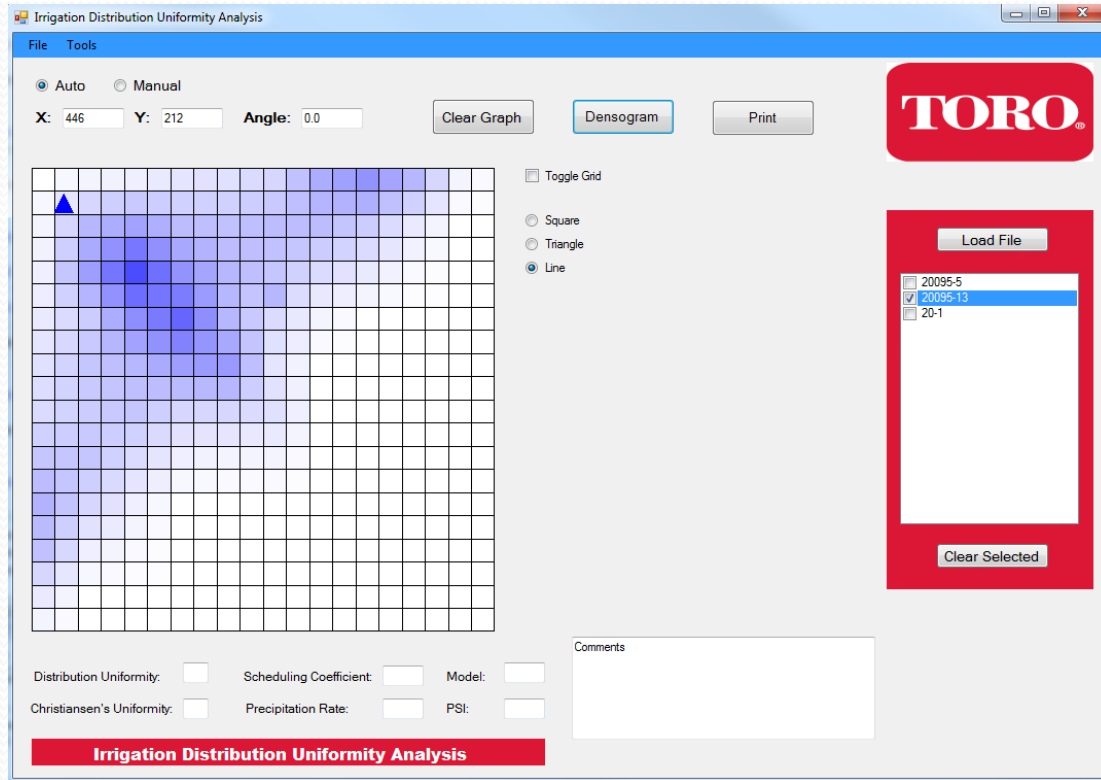




Team 7. Toro Alpha Demonstration

Team 7. Toro

Alpha Demonstration

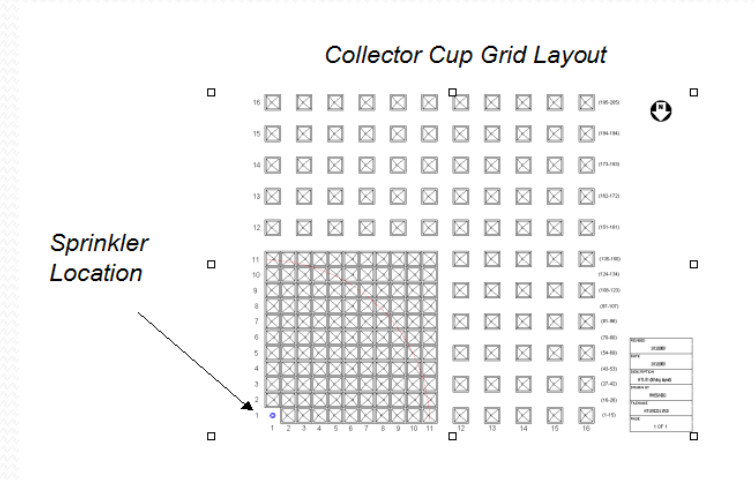


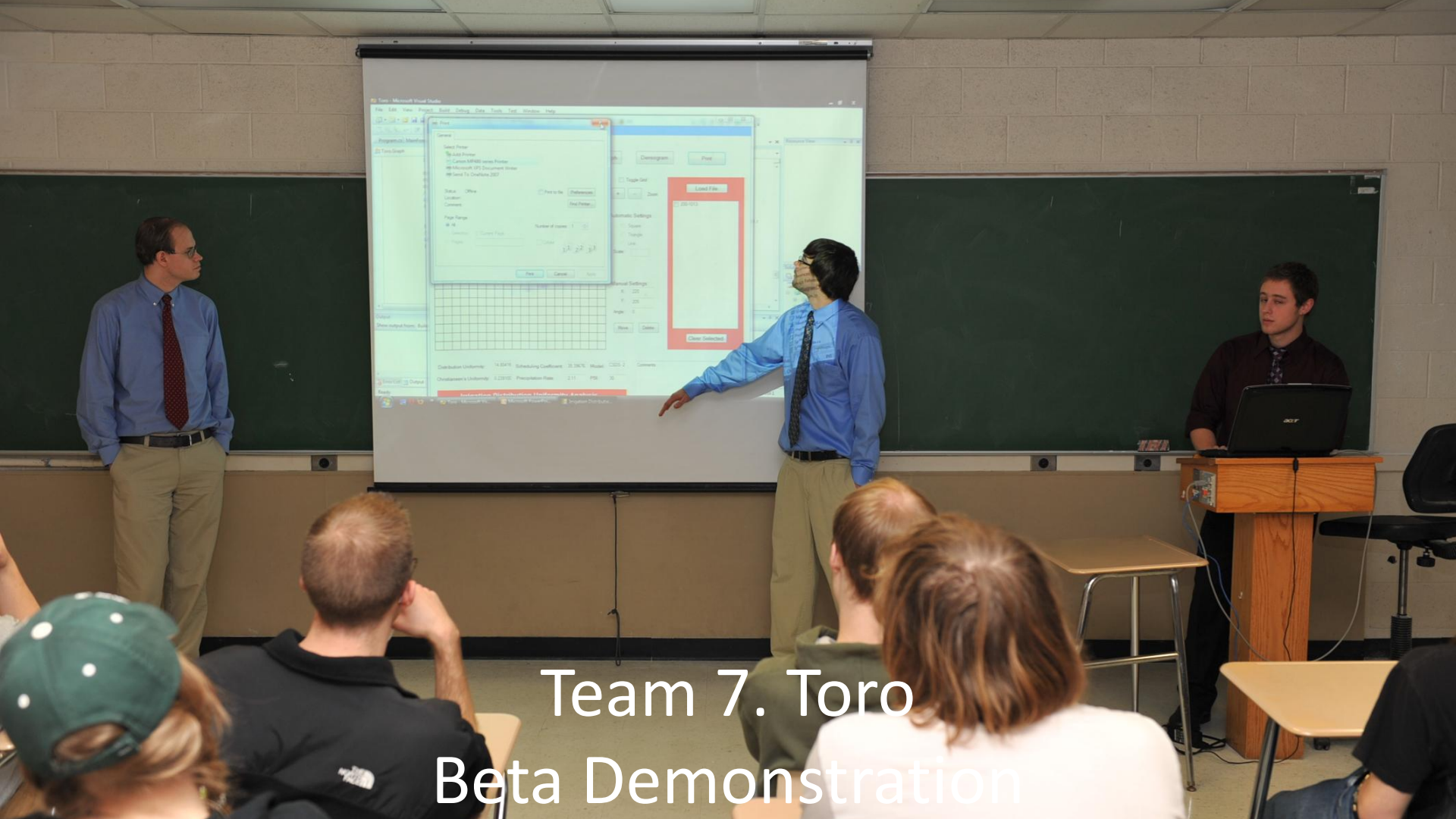


Team 7. Toro
Beta Demonstration

Team 7. Toro

Beta Demonstration



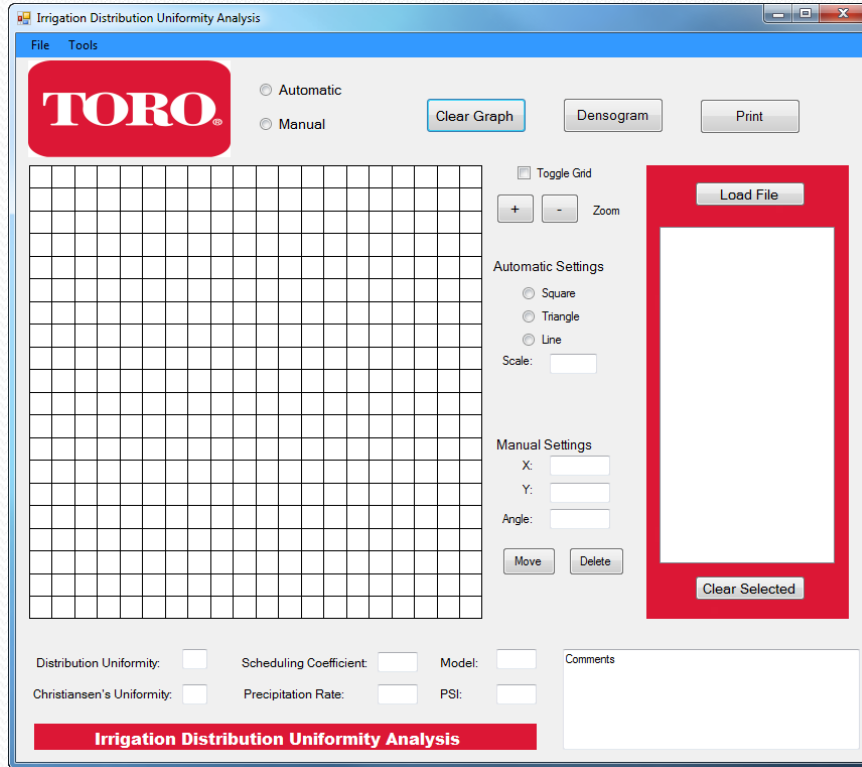


Team 7. Toro

Beta Demonstration

Team 7. Toro

Beta Demonstration





URBAN SCIENCE

SOLUTIONS

RESULTS

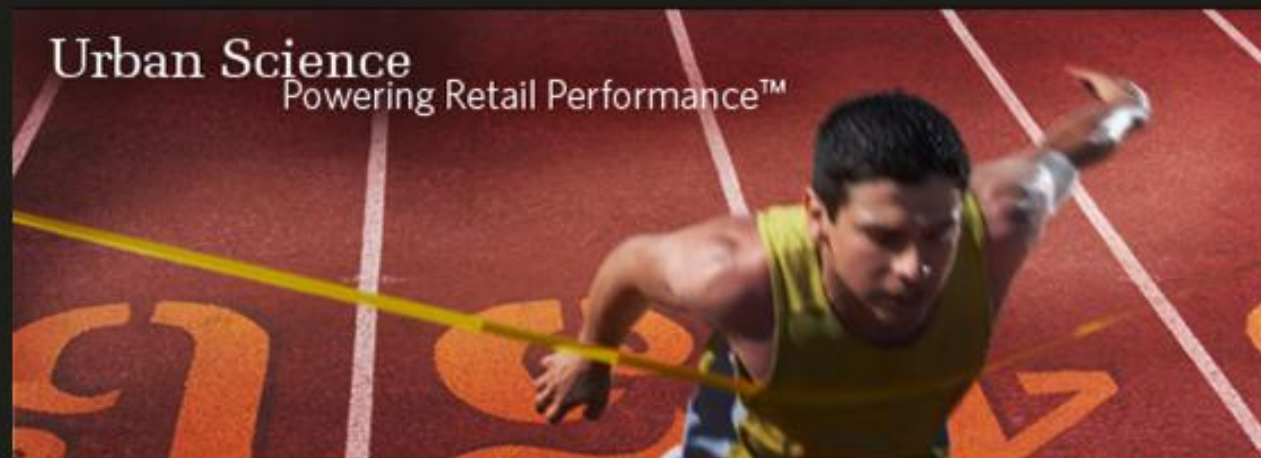
NEWS & EVENTS

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

Solutions

Results

Latest News:

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

Urban Science says auto dealerships suffer largest decline on record. [Read](#)

Team 8. Urban Science

Project Overview

Automobile Dealership Dashboard

- Urban Science Products
 - For Automobile Dealerships and OEMs
 - Tools to Analyze Operational Performance
 - Vitrally Important in Current Economy
- Dealership Dashboard
 - Portal to Urban Science Products
 - Modern Dashboard Graphical User Interface
 - Include Text, Charts, Graphs, Gauges, etc...
 - Utilize Integrated Site Solution (ISS)
 - Maintain Urban Science Brand Image
- Technologies
 - Microsoft Visual Studio
 - Integrated Site Solution (ISS)
 - ChartFX



URBAN SCIENCE™

A photograph of three young men standing side-by-side in front of a whiteboard. The man on the left is wearing a light purple shirt and a dark red tie. The man in the center is wearing a bright blue shirt and a blue and white striped tie. The man on the right is wearing a light blue striped shirt and a dark blue patterned tie. The whiteboard behind them has several hand-drawn diagrams in orange and blue ink, including flowcharts and text like 'user', 'portal', 'play', 'user x, y, play', 'view', 'Serial data', and 'Jml doc'.

Sean
Odonnell-Daudlin

Garrett
Radford

Michael
Cybulski

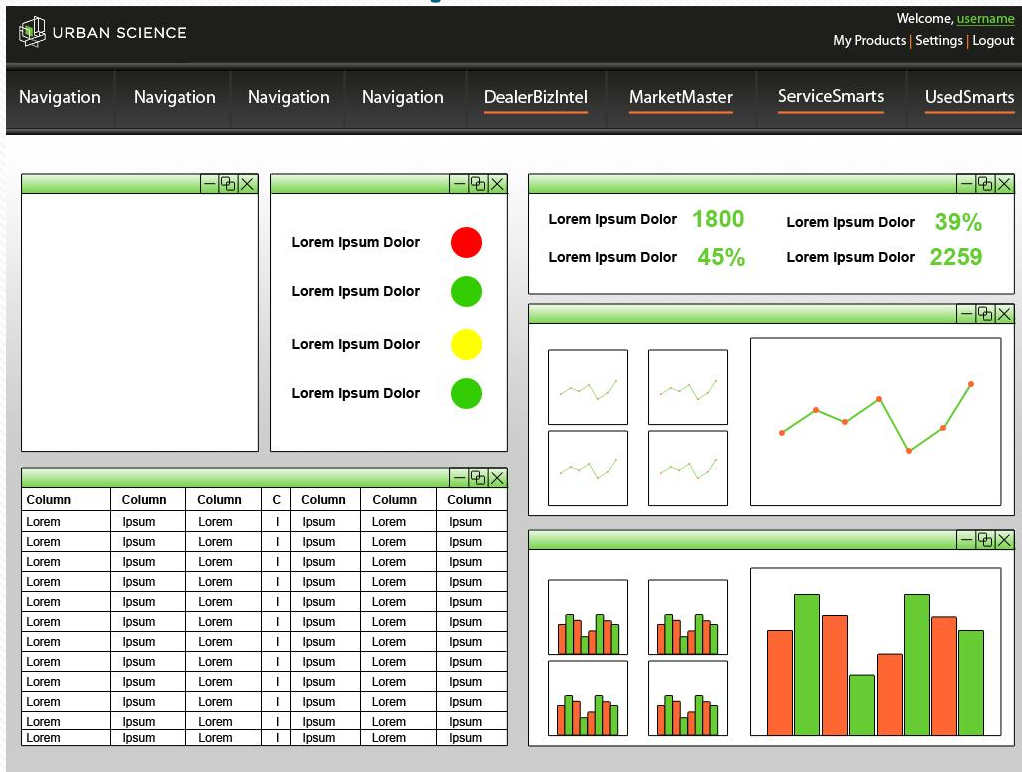
Team 8. Urban Science
MSU Team Photo

Team 08. Urban Science

Team 8. Urban Science Project Plan Presentation

Team 8. Urban Science

Screen Mockup





Testing

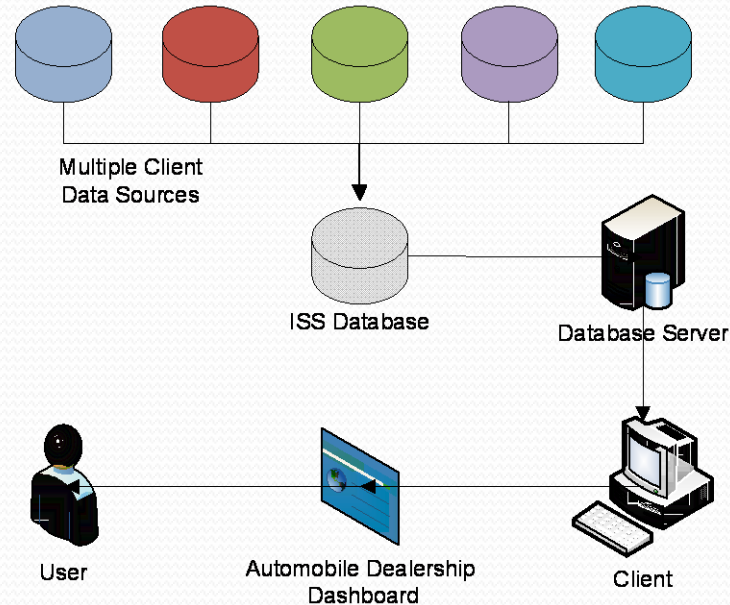
- Login Screen/User Preferences
 - Security Testing
 - Valid User/Password
 - Preferences Saved
- Dashboard Functionality
 - Navigation
 - Drill-Down Features
 - Data Confirmation
- Urban Science Product Linking
 - Hyperlink Integrity
 - Pass Login Credentials

Team 08: Urban Science

Team 8. Urban Science
Project Plan Presentation


Team 8. Urban Science

Architecture Diagram



Alpha Demonstration

Screen Shot



The screenshot displays a 'Quality Metrics Dashboard' with a top navigation bar and a main content area. The navigation bar includes a 'Home' button and a 'Logout' button. The main content area is divided into five sections, each with a title and a corresponding chart.

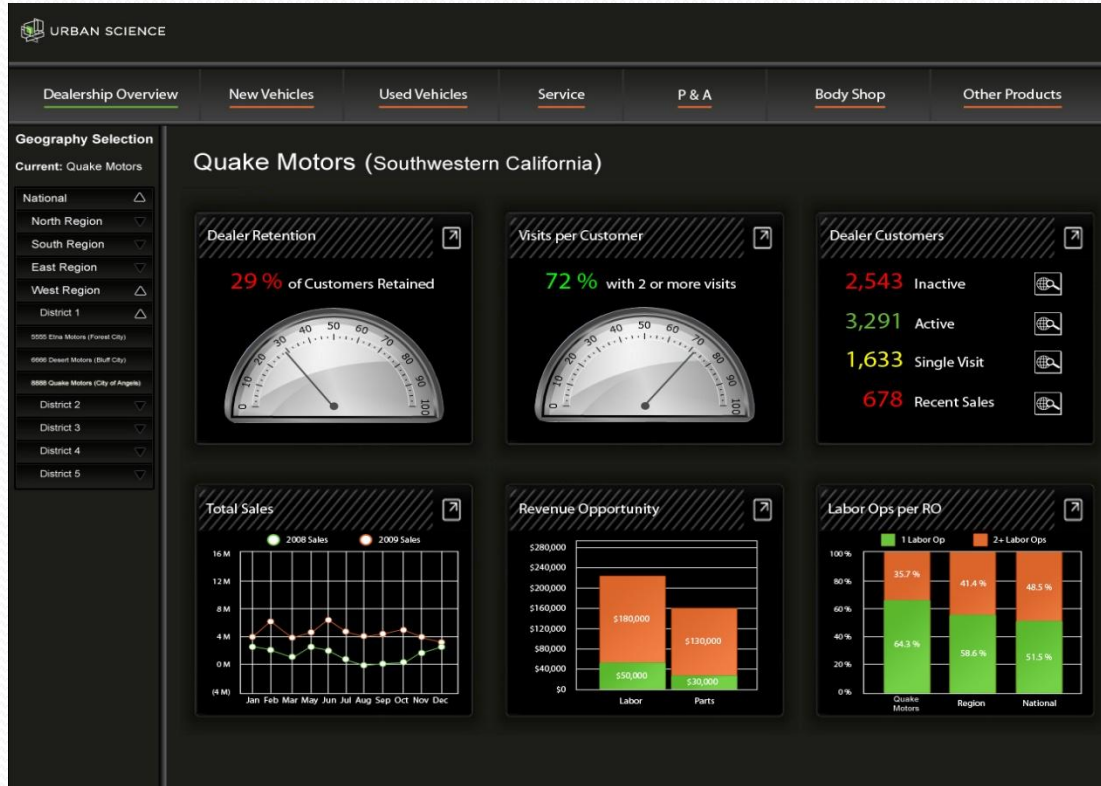
- New Website Sales Effectiveness:** A bar chart showing sales effectiveness for three categories: 'New Website Sales', 'Website Sales', and 'Sales by Salesperson'. The y-axis ranges from 0 to 100.
- Website Sales:** A line chart showing sales over time. The y-axis ranges from 0 to 1000. The x-axis shows months from Jan to Dec.
- Sales by Salesperson:** A bar chart showing sales for three salespersons: 'Salesperson A', 'Salesperson B', and 'Salesperson C'. The y-axis ranges from 0 to 1000.
- Sales by Salesperson and Qtr:** A stacked bar chart showing sales by quarter (Q1, Q2, Q3, Q4) for three salespersons. The y-axis ranges from 0 to 1000.
- Product Sales:** A bar chart showing sales for three products: 'Product A', 'Product B', and 'Product C'. The y-axis ranges from 0 to 1000.



Team 8. Urban Science Alpha Demonstration

Team 8. Urban Science

Alpha Demonstration



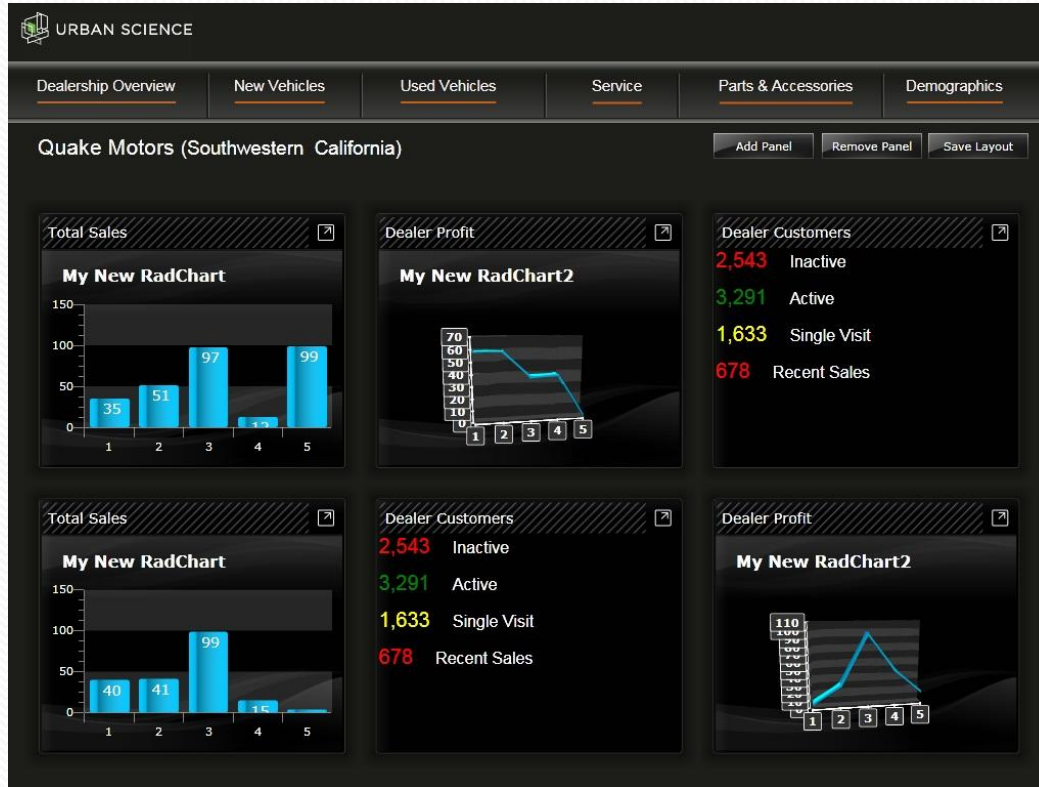


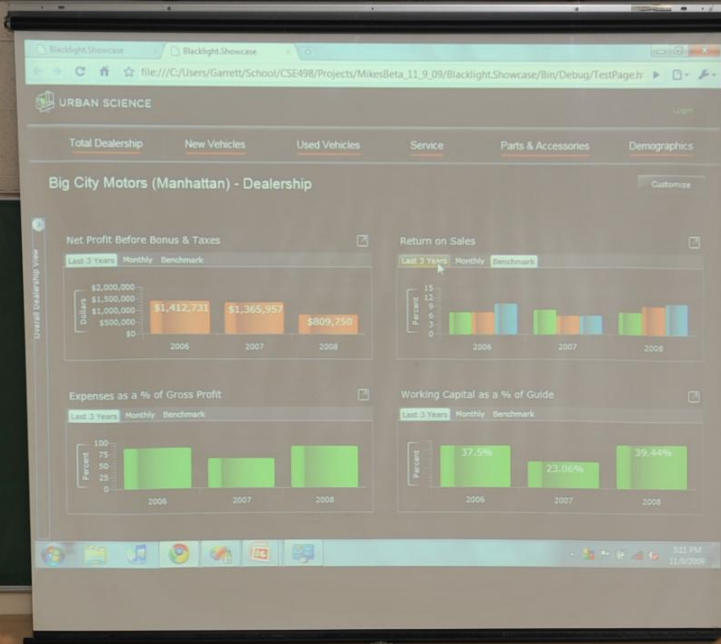
Team 8. Urban Science

Alpha Demonstration

Team 8. Urban Science

Alpha Demonstration

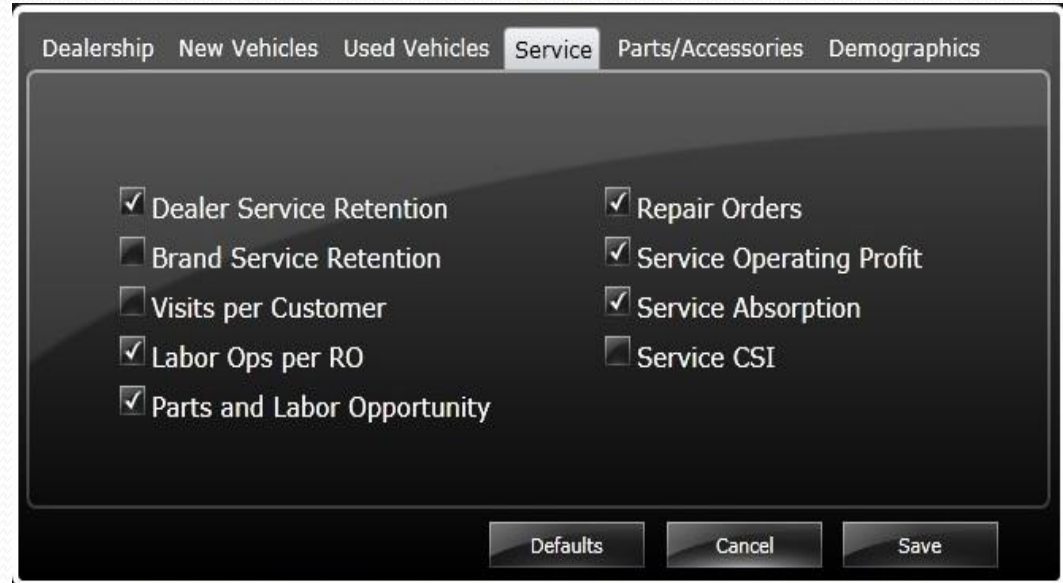
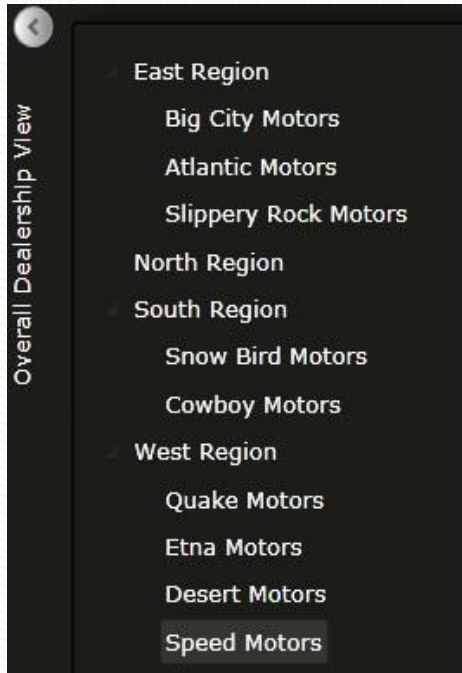




Team 8. Urban Science
Beta Demonstration

Team 8. Urban Science

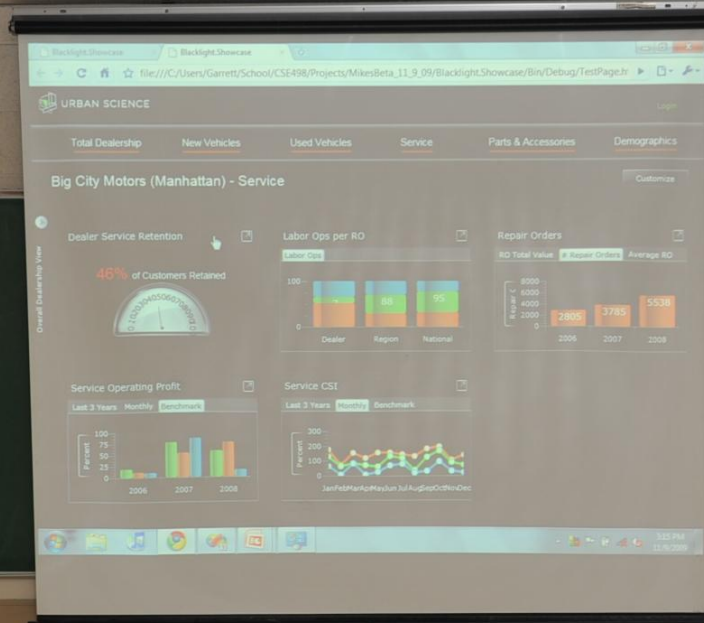
Beta Demonstration



Team 8. Urban Science

Beta Demonstration





Team 8. Urban Science
Beta Demonstration

The Computer Science Senior Capstone Experience

CSE498 Collaborative Design

Department of Computer Science and Engineering

Michigan State University

Fall 2009

Professor Wayne Dyksen

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BA stock price 64.45 [- 0.32] at 4:13 PM ET on Aug 15

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Special Feature:

- [Tanker Facts blog](#)

[787 Dreamliner Power On](#)



To view the animation to the left you need a Flash player.

In The News:

Boeing Delivers Super Hornet Proposal to Brazil for F-X2 Competition

Boeing and Seal Dynamics Sign Contract for Innovative Supply-Chain Solution

Boeing American Airlines

11,012,905^{*} hours

The GE90 reaches 10 million hours of flight

* Estimated based on fleet averages



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GENx-2B First Engine to Test

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



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Explore program milestones, specifications, downloads and more for GE's next generation turbofan engine.

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GE Aviation welcomes Smiths Aerospace to

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Dec 18, 2008 at 16:01 ET 15.96 -1.43

[Paul Theofan Named President and Managing Executive of GE Aviation Czech](#)

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The Computer Science Senior Capstone Experience

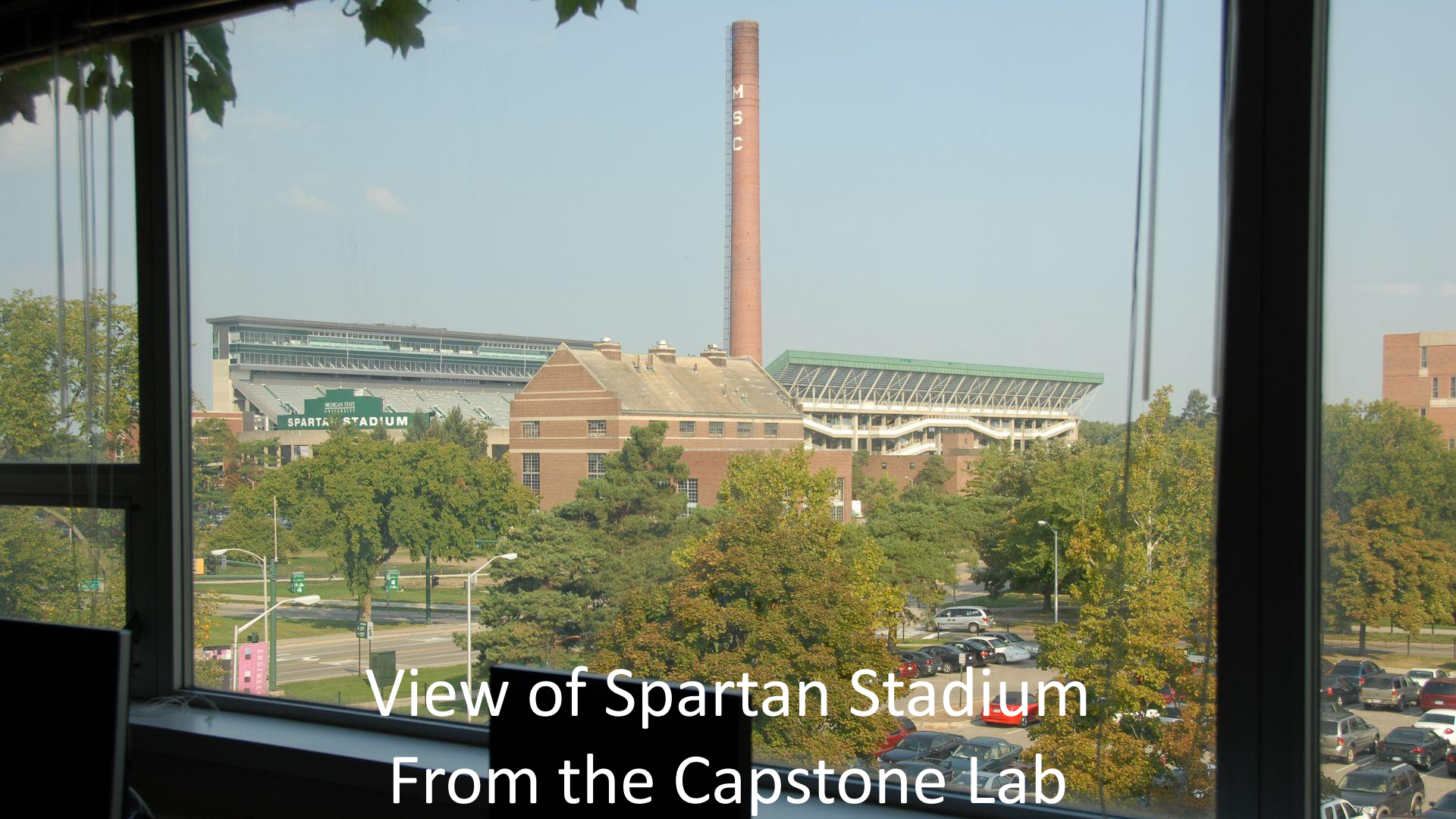
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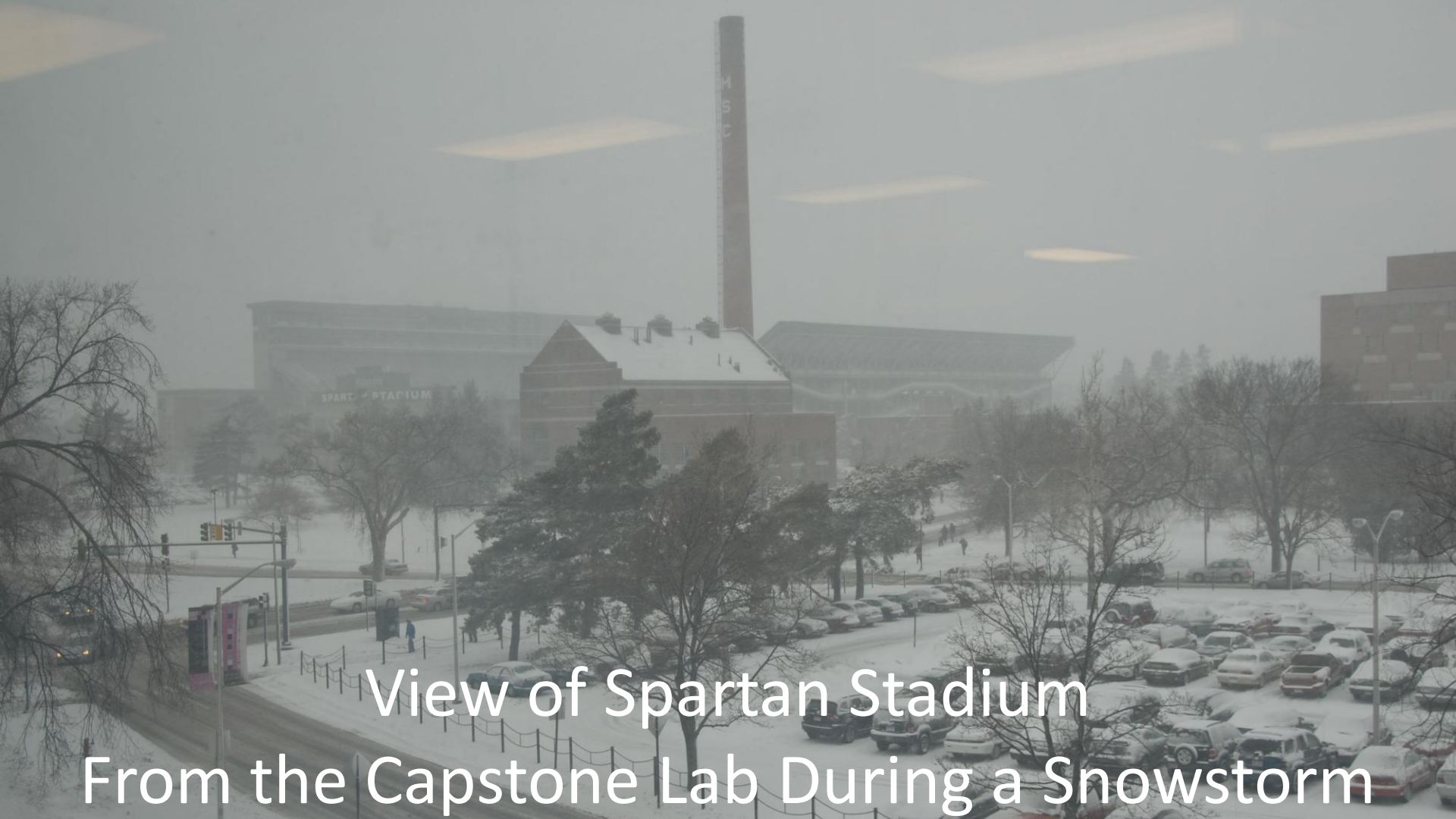
Michigan State University

Fall 2009

Professor Wayne Dyksen



View of Spartan Stadium
From the Capstone Lab



View of Spartan Stadium
From the Capstone Lab During a Snowstorm

The Computer Science Senior Capstone Experience

Design Day Award Winners

December 5, 2007



Auto-Owners Exposition Award

Team TechSmith, Fall 2007

Rich Media Collaboration

Tom Lavoy, Brandon Turner, Jason Conley, Chris Harter
Presented by Bob Buchanan of Auto-Owners Insurance



Chrysler Praxis Award

Team IBM, Fall 2007

Processor Folding for Linux on POWER

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

Presented by Rick Rose of Chrysler



Crowe Sigma Award

Team Motorola, Fall 2007

Management Console for the Agent Framework

Dave Dylegowski, Drew Breider, Dave Robishaw, Calvin Pinsuwan

Presented by Kevin Ohl of Crowe Chizek



TechSmith Screencast Award

Team Sircon, Fall 2007

GUI Configuration Tool for Interviews

Ryan Abbott, Nick Vanhowe, Ben Split, Mike Cracik

Presented by Dean Craven of TechSmith

The Computer Science Senior Capstone Experience

Design Day Award Winners

April 25, 2008



Auto-Owners Exhibition Award

Team Boeing, Spring 2008

Poseidon Executor 2008

Nick Thrower, Steve Emelander, Scott Walenty, Tom Stark
Presented by Bob Buchanan of Auto-Owners Insurance



Chrysler Praxis Award

Team Ford, Spring 2008

Ford Sensor Showroom

Austin Drouare, Colin Nemchik, Devin Schnepf, Nathan Crosty
Presented by Karen Wrobel of Chrysler



Crowe Sigma Award

Team Toro, Spring 2008

WPF Based Interface for Irritrol

Stephanie Cook, Dan Fiordalis, Matt Grabow
Presented by Kevin Ohl of Crowe Chizek



TechSmith Screencast Award

Team Microsoft, Spring 2008

MUD: A Web-Based Multi-User Drawing Surface

Rob Meyer, Sean Murphy, Kirsten Partyka, Charles Otto

Presented by Tony Lambert of TechSmith

The Computer Science Senior Capstone Experience

Design Day Award Winners

December 7, 2008



Auto-Owners Exhibition Award

Team Auto-Owners, Fall 2008

Recruiting Contacts and Events System

Tom Randall, Jonathan Lindsey, Ashleigh New, Michael Korynski
Presented by Scott Lake and Bob Buchanan of Auto-Owners Insurance



Chrysler Praxis Award

Team TechSmith, Fall 2008

Cloud Powered Media Searching

Caitlin Nelson, Scott Lamparski, Derek Gebhard, Keith Barber (Not Pictured)

Presented by Paul Van Hese of Chrysler



Crowe Sigma Award

Team Ford, Fall 2008

Ford Test Drive

Taylor Rice, Jeffrey Ignatius, Ryan Wagoner, Ronald Rodriguez
Presented by Kevin Ohl of Crowe Chizek



TechSmith Screencast Award

Team Toro, Fall 2008

[Golf Vision Interface for Turf Guard](#)

Brett Lesnau, Jacob Denzer, Brian Walsh, Eric Jensen

Presented by Dean Craven of [TechSmith](#)

The Computer Science Senior Capstone Experience

Design Day Award Winners

May 1, 2009



Auto-Owners Exhibition Award

Team Auto-Owners, Spring 2009

[Telephone Log Self-Service Dashboard](#)

Steve Springer, Michael Eaton, Daniel Chandonnet, Gina Chernoby
Presented by Bob Buchanan and Scott Lake of [Auto-Owners Insurance](#)



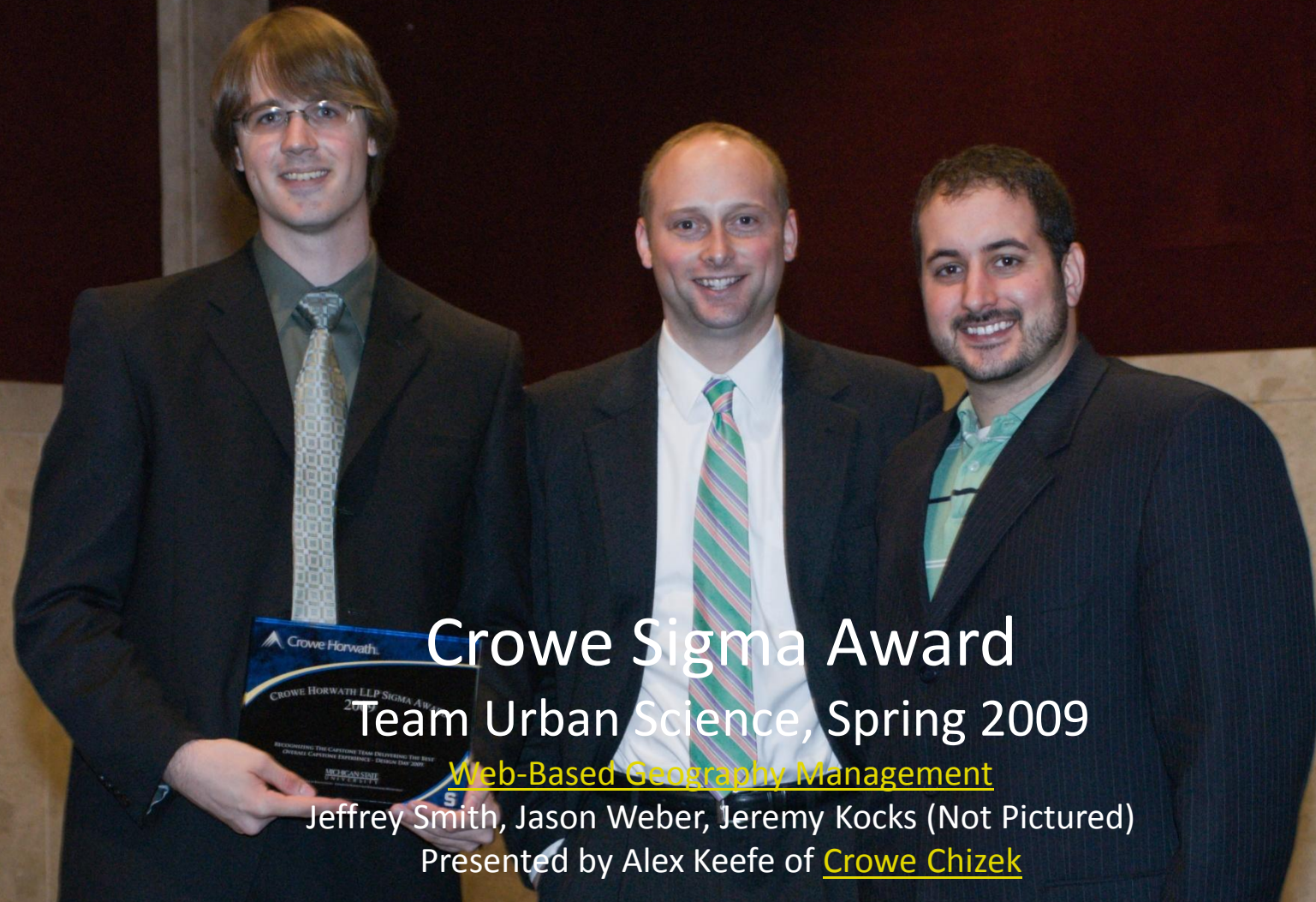
Chrysler Praxis Award

Team Motorola, Spring 2009

User Generated Video Services for Cable Systems

Randy Lyczynski, Bethany Wenzel, Maitland Marsh, Matt Beer

Presented by Karen Wrobel of Chrysler




Crowe Sigma Award

Team Urban Science, Spring 2009

Web-Based Geography Management

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

Presented by Alex Keefe of Crowe Chizek



TechSmith Screencast Award

Team Ford, Spring 2009

Ford Conference Room Monitor

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

Presented by Dean Craven of TechSmith

The Computer Science Senior Capstone Experience

Design Day Award Winners

December 11, 2009



Auto-Owners Exhibition Award

Team GE Aviation, Fall 2009

Synthetic Vision Display

Jesse Hacker, Justin Kienle, Andy Inman, Andrew Gerber
Presented by Ron Simon of Auto-Owners Insurance



Chrysler Praxis Award

Team Boeing, Fall 2009

Sparse Virtual Texturing

Adam Starks, Jim Drallos, Alex Kobylarek, Patrick Ohren

Presented by Karen Wrobel of Chrysler



Crowe Sigma Award

Team Motorola, Fall 2009

User Generated Video Service for the iPhone

Rob Palmer, Ryan Ley, Mary Fetsco, Phil Deschaine
Presented by Dominic DeCicco of Crowe Chizek



TechSmith Screencast Award

Team Auto-Owners Insurance, Fall 2009

Applications for Mobile Devices

Lovelesh Chawla, Luke Hospadaruk, Rick Silva

Presented by Dean Craven of TechSmith

