

Project Vitae: Jim Grau

Listed below are several projects worked on by Jim Grau over the last few years. For each of these projects, Mr. Grau played a major contributing role. In some cases this role was as the sole developer, in other cases as a senior member or leader of a development team.

The chronology below is not a complete list of work done by Mr. Grau during the timeframe encompassed by these vitae. Continuing on-going maintenance and enhancement of the applications described below has occurred in most cases.

The projects listed all have fairly definitive begin and end dates, and involve a substantial level of effort (as opposed to on-going maintenance activities which occurred concurrent with these projects).

Project level of effort represents actual time on project. In some cases this represents less than full-time effort during the stated project period due to other work (aforementioned maintenance and enhancement work) reducing available time.

Industrial Hardware Website Upgrade

Customer: H. A. Guden. Ronkonkoma, NY

Start Date: July 2011 **End Date:** October 2011

Summary: Ported an ASP.Net Web Forms website to .Net 4.0, MVC 3.0, JQuery

Detail: Website is one previously constructed by Cumbre Systems (See Industrial Hardware Supply Website below). This project involved a port of website front-end (no change to back-end business logic) to .Net MVC 3. Port allows for more interactivity via JQuery, etc., code simplification, "natural" URLs, etc. Website is public facing site for industrial hardware (hinges, gas springs, lid supports, etc.) supplier. Site implements a custom developed CMS which allows for administrator setup of menus, flyouts, menu "drill down pages", and SQL generated lists of items with variable item attributes. Also supports retrieval of PDF drawings, download of CAD models, and inclusion of static HTML content (e.g., press releases, product bulletins, etc.)

Work was done from home office in Denver.

Project Team: Single developer working directly with client IT manager

Level of Effort: 3 person months

Technology: Net 4.0, .Net MVC 3, Razor, SQL Server 2008, TSQL Stored Procedures and Functions, Visual Studio 2010, JQuery, JqGrid, JQuery UI, CSS, HTML, SVN, Ankh

RV Repair Facility Management Website

Customer: Good Sam Enterprises. Englewood, CO.

Start Date: March 2010 **End Date:** June 2011

Summary: Intranet Website supporting a RV repair facility database for use by Extended Service Plan (ESP) and Emergency Road Service (ERS) business segments

Detail: Designed and developed an application to manage repair and towing facility information for use by Extended Service Plan/Emergency Road Service line of business. System tracks facilities, repair capabilities, ability to perform manufacturer warranty maintenance work, contractual agreements, etc.

System allows call centers supporting ERS and ESP activities to quickly locate a repair facility with needed capabilities by doing geography based lookups (ZIP, City, or Lat/Long). Returned facilities are organized such that facilities with active parts or labor discount agreements are given priority over other facilities at similar distance.

System is used by internal company employees and by 3rd party call-center personnel.

Work was done on-site at client location.

Project Team: Single developer working directly with VP of Application Development and with business segment Sr. Management

Level of Effort: 7 person months

Technology: Net 4.0, .Net MVC 2, Server 2008, Visual Studio 2010, TSQL Stored Procedures and Functions, SQL Server Geospatial library, JQuery, JqGrid, JQuery UI, Google Maps API, CSS, HTML, TFS

Executive Dashboard

Customer: Good Sam Enterprises. Englewood, CO.

Start Date: July 2010

End Date: January 2011

Summary: Web-based revenue dashboard allowing analysis of revenue by business segment

Detail: Designed and developed revenue tracking “dashboard” web application. This application presents revenue summaries by time period supporting slicing and drilldown based on LOB, revenue channel, customer response method, etc. Application displays information in grid formats in addition to visualization of data (bar charts, line charts, pie charts, etc.)

System data is stored in a SQL Server 2008 data cube.

Work was done on-site at client location.

Project Team: Single developer working directly with VP of Application

Level of Effort: 3 person months

Technology: Net 4.0, .Net MVC 2, Server 2008, SQL Server MDX, Visual Studio 2010, TSQL Stored Procedures and Functions, Microsoft Charting Framework, JQuery, CSS, HTML, TFS

PCI Compliance Project

Customer: Good Sam Enterprises. Englewood, CO.

Start Date: May 2009

End Date: February 2010

Summary: Work to assist level 2 merchant in achieving PCI compliance for legacy applications

Detail: Worked for membership management organization to ensure Payment Card Industry (PCI) regulatory compliance. Responsible for analysis of online and batch systems compliance and development of encryption, key file management, and key rotation software and procedures.

Responsible for establishing procedures for periodic key rotation and training of IT staff on those procedures and on use of developed encryption code.

Work was done on-site at client location.

Project Team: Cross-department matrix project team comprised of Manager of Systems Development, 4 to 6 developers, PCI compliance manager, DBA group, QA group, System Support Group, and external QSA organizations.

Level of Effort: 4 to 5 person years (rough estimate).

Technology: Net 2.0, ASP.Net Web Forms, Server 2005, Visual Studio 2003, TSQL Stored Procedures and Functions, Microsoft Data Protection API, TFS

Document Management and Workflow System

Customer: K Line America, Richmond VA.

Start Date: June 2008

End Date: March 2009

Summary: Custom document management and workflow system

Detail: Designed and developed a document management system for international (\$10B) ocean freight carrier. System provides document storage and retrieval access to documents (PDF, Tiff and images) by world-wide users via web and application-to-application interfaces. WCF services support WinForms, ASP.Net, and external application clients. System supports document workflow, logging, scanning, bar-code recognition, document import, various document output methods (email, fax, print), etc.

System currently has over 10 million documents (Bills of Lading, Invoices, Shipping Instructions, etc.) under management (stored in Oracle media database).

System replaced commercial software package. System was built for about 130% of yearly license fees of commercial system resulting in large on-going payback.

System was developed in Cumbre Systems Denver offices.

Project Team: 2 developers, myself and one other Cumbre Systems employee working under my direction.

Level of Effort: 9 person months

Technology: Net 3.5, ASP.Net Web Forms, Oracle 10g, Visual Studio 2008, PL/SQL Packages, Pegasus Imaging for Windows, Infragistics .Net tools, WCF, .Net WinForms, GdPicture Imaging, Kofax VSE scanning engine, AJAX, HTML, CSS, SVN, Ankh

Document Management and Image Annotation System

Customer: H. A. Guden, Ronkonkoma NY

Start Date: February 2008

End Date: May 2009

Summary: Custom document management and image annotation system

Detail: Designed and developed a system for the storage, annotation, and versioning of documents for industrial hardware supplier. System allows documents from fax, email, or disk to be imported. After documents are imported a variety of annotation and versioning operations can be performed.

System is used to receive customer drawings and work orders, engineering drawings, etc. System has allowed client to move to a virtually paper free environment and manage customer customization projects with ease.

System was developed in Cumbre Systems Denver offices.

Project Team: 2 to 3 developers, myself and two other Cumbre Systems employee working under my direction.

Level of Effort: 7 person months

Technology: Net 2.0, SQL Server 2005, Visual Studio 2003, T-SQL stored procedures, Pegasus Imaging for Windows, SVN, Ankh

Ocean Carrier Export Documentation System

Customer: K Line America, Richmond VA

Start Date: January 2007

End Date: February 2008

Summary: Export Documentation Management System

Detail: Designed and developed .Net WinForms application for international ocean carrier. This is a highly complex application with hundreds of database tables, many containing several million rows, hundreds of application forms, and hundreds of business function points.

Application is used by K Line America to manage all export cargo documentation requirements. This includes Bill of Lading production, Customs forms, Dangerous Goods forms, shipping manifests, etc.

System implements a complex workflow with multiple external and internal trigger points which result in re-routing of work. (e.g., cargo delays, vessel schedule changes, customs holds, payment receipt, customer credit interrogation, etc.)

System interfaces with world-wide cargo management system and with external entities (customers, freight forwarders, government agencies) via EDI, asynchronous messaging, Oracle snapshot replication, etc.

Application is mission-critical for this multi-national carrier.

System was developed in Cumbre Systems Denver offices.

Project Team: 5 developers (Cumbre Systems employees) working under my direction plus 1 "shared" developer from client working for knowledge transfer. Business planning team included IT and business unit management in both Richmond, VA and Tokyo, Japan.

Level of Effort: 6.5 person years

Technology: Net 2.0, .Net WinForms, ASP.Net Web Forms, Oracle 9i, PL/SQL packages, triggers, and functions, Oracle snapshot replication, Oracle Advanced Queuing (AQ), Pegasus Imaging for Windows, Component 1 Toolkit (grid, dropdowns, toolbars, etc.), SVN, Ankh

Industrial Hardware Supply Website

Customer: H. A. Guden, Ronkonkoma NY

Start Date: October 2007

End Date: April 2008

Summary: Public facing website for use by customers of industrial hardware supplier.

Detail: Designed and developed public-facing ASP.NET application for industrial hardware company. Site supports dynamic page generation, product catalog browsing, quotes, ordering, etc. (custom CMS).

System was developed in Cumbre Systems Denver offices.

Project Team: 2 developers (Cumbre Systems employees) working under my direction

Level of Effort: 10 person months

Technology: Net 2.0, ASP.Net Web Forms, SQL Server 2000, T-SQL Stored Procedures, HTML, CSS, SVN, Ankh

Membership Call Center Application

Customer: Affinity Group, Englewood CO

Start Date: October 2005

End Date: February 2007

Summary: Intranet web application used by membership management company call center

Detail: Technical Lead/Application Architect on rebuild of membership application.

Application manages over 1 million customers enrolled in 12 membership clubs. Intranet system supports ordering, fulfillment, payment processing, marketing and campaign management.

Campaign management modules support panel segregation and tracking across various packaging and pricing options, providing marketing feedback for future campaigns.

I served as one of two technical systems architects. Application was managed and staffed by Idea Integration (I worked as sub-contractor).

This is a high complexity application with hundreds of database tables and several complex, club specific, business rules.

Work was performed on-site at Affinity Group offices.

Project Team: 8 developers (Idea Integration employees), 2 DBAs (client), QA Group (client), client IT management, and several business unit subject matter experts.

Level of Effort: 12 person years (rough estimate)

Technology: ASP.Net 2.0, C#, Visual Studio 2005, Team Foundation Server, SQL Server 2005, TFS