

**Wasim Akhtar**  
**RECENT PROJECTS**

<b>COMPANY</b>	<b>PROJECT DETAILS</b>
<p><b>Touch View Survey System</b></p> <p>Los Altos, CA</p>	<p><b>TOUCH VIEW SURVEY SYSTEM (TVSS) (2004/2017)</b></p> <ul style="list-style-type: none"> <li>○ This software creates on-the-fly Multilingual Surveys for use with touch-sensitive screens. It was originally developed in MS-Access 2003, but it has now been upgraded to work with MS-Access 2016 and MS-SQL Server 2016.</li> <li>○ You can select any number of languages for each Survey. But, you will have to use an on-line service to translate your Questions and Answers from one language to another.</li> <li>○ Right now TVSS supports only Left-to-Right (LTR) Languages; such as English, Spanish, French, etc.</li> <li>○ It creates Survey Slides based upon the parameters selected, including Fonts, Colors and Graphics.</li> <li>○ Users can specify a common background layout that can be used on all Survey Slides. But, if they want, they can use different background layouts for every slide, or for only a few selected slides.</li> <li>○ TVSS displays the questions in the language selected by the user and saves their responses in the same language.</li> <li>○ Each Question and Answer screen can use a variety of formats, ranging from a simple Yes/No to tabular grid.</li> <li>○ For Questions requiring verbatim or typed-in responses, the software displays a language-sensitive, on-screen Soft Keyboard that can be used to enter responses in the language of the Survey.</li> <li>○ The application can work in a pure MS-Access environment; as well as, with any ODBC compliant database, such as MS-SQL Server.</li> </ul>
<p><b>Private Startup</b></p>	<p><b>CERTIFIED SAFETY TICKET REGISTRY (CTR) (2014/2015)</b></p> <ul style="list-style-type: none"> <li>○ This is a full-featured MVC5 (Model-View-Controller Version 5) website for registering Certified Safety Tickets issued by government agencies and other organizations.</li> <li>○ Registered Users can enter relevant Safety Ticket information, including Safety Ticket images, into their account, and retrieve that information from any workstation or portable device.</li> <li>○ It includes administrative features for managing account and membership renewals; including recurring credit and debit card payments.</li> <li>○ Search tools for Registered Users, Safety Tickets and Payments accessible by Staff and Administrators.</li> <li>○ The application design includes 10 Models, 5 Controllers, and more than 60 Views.</li> <li>○ Bootstrap was used to display content according to the device-width and display size.</li> <li>○ It also includes a Windows Service to process Automatic Email Notifications for expiring and expired Safety Tickets, which also monitors a folder to report payments by RC4 Encrypted XML files from a Credit Card Service.</li> <li>○ It was programmed in C#, with Razor and JavaScript using Visual Studio 2013 and SQL Server 2014 database.</li> </ul>

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<p><b>California State University</b></p> <p>Los Angeles, CA</p>	<p><b>AMERICAN LANGUAGE PROGRAM – STATEMENT OF FEES (ALP–SOF) (2012/2014)</b></p> <ul style="list-style-type: none"> <li>○ This Windows Forms application is used to manage the American Language Program (ALP) of a university.</li> <li>○ It integrated and centralized activities of several departments for admitting and registering hundreds of students.</li> <li>○ A user can search for a student’s status in a variety of ways; such as, by a student’s Last Name, Student ID, Study Agreements, Term ID, etc.</li> <li>○ Many forms display data that requires changing the size of the form so a user can view as much data as he needs to take care of their needs.</li> <li>○ To avoid resizing such forms and lists each time a user accesses them, the system records the sizes of these forms when they are closed. When a user reopens these forms, it displays these forms in the same size as it was closed by that user.</li> <li>○ To reduce the amount of training needed, the system makes extensive use of Menus, Forms, Grid Views and Buttons to assist in viewing and modifying students and their registration information.</li> <li>○ Data access and editing capabilities were organized around a role assigned to every user and/or the department he was assigned to.</li> <li>○ It was programmed in C# using Visual Studio 2010 with a Microsoft SQL Server 2008 R2 database.</li> </ul>
<p><b>National Debt Settlement Company</b></p> <p>San Jose, CA</p>	<p><b>DEBT SETTLEMENT MANAGER (2002/2015)</b></p> <ul style="list-style-type: none"> <li>○ This client/server database management system was customized for a leading debt management company</li> <li>○ It integrated all activities related to the company’s Client Services, Account Services, Settlement Services, Electronic Funds Transfer, Accounts Receivables, as well as Agent Commissions.</li> <li>○ It automatically created tasks for departments and users when an event occurred, or a client or case status changed.</li> <li>○ It created hundreds of automatic offer letters every day based on funds available in their client trust accounts.</li> <li>○ It created and submitted electronic fund transfer requests to a clearinghouse and posted the results back to the database.</li> <li>○ This application was originally designed in MS-Access 2003 platform and used MS-SQL Server 2005 back-end.</li> <li>○ Recently it was upgraded to work with Microsoft Access 2013 with Microsoft SQL Server 2014.</li> <li>○ It has been re-designed to work in a Cloud Environment.</li> </ul>

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<p><b>A National Bank</b></p> <p>San Francisco, CA Phoenix, AZ Portland, OR</p>	<p><b>CURRENCY TRANSACTION REPORTING SYSTEM (2008/2009)</b></p> <ul style="list-style-type: none"> <li>○ Developed an enterprise-level, intranet Web application to manage, process and report currency transactions as required by Federal Regulations CTR 010 and 020</li> <li>○ Extensive search capabilities were created, which interacted with the database through stored-procedures</li> <li>○ The user interface made extensive use of the Grid View, including code to customize its behavior based on the underlying content and user mode. Data contained in each Grid View was exportable as a spreadsheet.</li> <li>○ Access to all Site Map Nodes was determined through roles assigned to each user</li> <li>○ The application included a File Watcher Service that monitored a network folder whenever new files arrived and loaded the data automatically into the database. Data and format related errors and/or messages were posted into the Server's Application Event Log, as well as sent Email notification based on parameters specified in web.config.</li> <li>○ The front-end was developed in C# using Visual Studio 2008, and the back-end used MS-SQL Server 2008</li> </ul>
<p><b>Thomas Weisel Partners</b></p> <p>San Francisco, CA New York, NY Mumbai, India</p>	<p><b>CONVERTIBLES TRADING SYSTEM (2007/2008)</b></p> <ul style="list-style-type: none"> <li>○ Created the major portion of a complex, yet flexible, sales and trading system for convertible bonds and stocks</li> <li>○ The application displayed live trading data from Bloomberg on various forms</li> <li>○ The front-end used Windows Forms technology and User Controls, which allowed each user to customize their user interface by moving, opening or closing dock able panes as and when needed</li> <li>○ The user interface made extensive use of Infragistics controls, such as the Dock Manager and UltraWinGrid</li> <li>○ The front-end was developed in C# using Visual Studio 2005, and the back-end used Oracle 10g Database</li> </ul>
<p><b>Trend Micro Systems</b></p> <p>Cupertino, CA London, England Singapore</p>	<p><b>DATA MIGRATION PROJECT (2007)</b></p> <ul style="list-style-type: none"> <li>○ Created data migration plans, QA procedures and Use Cases for moving mission critical data to a new system</li> <li>○ Source System: Partner Web – An internal application built on .NET Technology for managing Partner Profiles, Not For Resale Orders and Sales Opportunities</li> <li>○ Destination System: Partnership Resource Manager – A vendor supported, template-driven application</li> <li>○ This project required interfacing with an international team working on three different continents</li> </ul>

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<p><b>Major User</b></p> <p>San Jose, CA</p>	<p><b>COIN COLLECTION SYSTEM</b> (2007/2014)</p> <ul style="list-style-type: none"> <li>○ Created a system for tracking, managing and marketing coin collections.</li> <li>○ It can handle unlimited collection images, as well as details about each coin in the collection and their grading condition.</li> <li>○ The application was designed with MS-Access 2013 front-end with an SQL Server 2012 back-end.</li> </ul>
<p><b>Alliance Bancorp</b></p> <p>Brisbane, CA</p>	<p><b>DATATRAC TOOLS – MS-EXCEL ADD-IN</b> (2006/2007)</p> <ul style="list-style-type: none"> <li>○ Created several tools for loading into and extracting mortgage data from corporate databases including DataTrac, FICS and Empower.</li> <li>○ These tools were used to support Secondary Marketing and Warehouse Banking.</li> <li>○ Add-Ins Created: Post Commitment Data, Reset Commitment Data, Post Loan Data, Confirm Locks, Post Conduit Data, Post Purchased Loans, Update Shipping Status, Update Status Codes, Transfer Warehouse Banks, Download First Collateral, Comerica &amp; RFC Loans, and Create New Loans in DataTrac</li> </ul>
<p><b>Alliance Bancorp</b></p> <p>Brisbane, CA</p>	<p><b>DATA MANAGEMENT SYSTEMS</b> (2006/2007)</p> <ul style="list-style-type: none"> <li>○ Created a Securitization Management System for tracking, managing and marketing mortgage-backed securities.</li> <li>○ Created a Servicing Data Transfer System for extracting data from DataTrac and loading it into FICS.</li> <li>○ Created a Contact Management System for housing contact information for sharing across the enterprise.</li> <li>○ The application was designed with MS-Access 2007 front-end and MS-SQL Server 2005 back-end.</li> </ul>
<p><b>Major Publisher</b></p> <p>Clifton Park, NY</p>	<p><b>MEDICAL OFFICE SIMULATION SOFTWARE</b> (2003/2005)</p> <ul style="list-style-type: none"> <li>○ This software has been packaged with a book for teaching medical office billing.</li> <li>○ Its primary purpose is to realistically simulate patient scheduling, billing and payment processing in medical offices.</li> <li>○ It is a fully functional database that gives the readers hands-on training in medical billing by working the step-by-step examples and exercises in the book.</li> <li>○ This application is also going to be used with future medical office assisting and healthcare insurance books.</li> <li>○ This application was officially distributed with more than 250,000 books.</li> <li>○ The application was developed in MS-Access 2000 with update plans for MS-Access 2003.</li> </ul>

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<p><b>Descartes Capital</b></p> <p>San Rafael, CA</p>	<p><b>CORPORATE SECURITY ARBITRAGE ANALYTICS SYSTEM</b> (2003/2005)</p> <ul style="list-style-type: none"> <li>○ This software was used by a startup hedge fund to process and manage stocks and bonds trades.</li> <li>○ It includes an integrated quote-trade form to manage all types of securities using a common interface; such as, convertibles, straights, stocks, futures and credit default swaps.</li> <li>○ It automatically creates files for processing by the various brokers involved in the daily trades.</li> <li>○ It also has seamless integration with a custom risk management model used for hedge fund trading.</li> <li>○ The system was used to manage investments of more than \$1.5-billion US Dollars.</li> <li>○ The application was developed in MS-Access 2003 with plans to port the back-end to MS-SQL Server 2005.</li> </ul>
<p><b>Descartes Capital</b></p> <p>San Rafael, CA</p>	<p><b>TERRAIN – Excel Add-In</b> (2004/2005)</p> <ul style="list-style-type: none"> <li>○ Excel 2002 Pivot Tables were being used to analyze investment-related data of a large number of companies.</li> <li>○ The Pivot Table data was stored in an MS-Access 2002 relational database model.</li> <li>○ Since Pivot Table records are read-only, this tool was being developed to allow edit, add and delete capabilities to that data from within MS-Excel.</li> <li>○ The users were free to arrange the Pivot Table columns into any combination for their analysis.</li> <li>○ This tool created an Excel form to match the current Pivot Table configuration, which allowed the user to create a copy, modify or delete the selected record.</li> <li>○ The modified records were posted to the database and round-tripped back to the current Excel Pivot Table.</li> <li>○ This tool made extensive use of Excel 2002 Document Object Module through Visual Basic for Applications.</li> </ul>
<p><b>RMS Inc.</b></p> <p>Newark, CA</p>	<p><b>DATA WIZARD Version 2</b> (2004)</p> <ul style="list-style-type: none"> <li>○ This was an upgrade of an existing MS-Excel add-in.</li> <li>○ The original add-in was designed to identify data incompatibility issues and clean Excel spreadsheets before submitting the data to their various risk management applications.</li> <li>○ I was responsible for the task of breaking the original wizard (which worked serially only), into discrete steps so that a user could perform the same functions, but in a more flexible manner.</li> <li>○ Added several new features that color-coded records of interest, as well as highlighted data formatting issues.</li> <li>○ The original version was also modified to be backward compatible with MS-Excel 97.</li> </ul>

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<p><b>TouchView Systems</b></p> <p>Los Altos, CA</p>	<p><b>TOUCH VIEW SURVEY SYSTEM</b> (2004)</p> <ul style="list-style-type: none"> <li>○ This software is being developed to create on-the-fly multilingual surveys for use with touch-sensitive screens.</li> <li>○ It creates interactive survey slides based upon the parameters selected, including fonts, colors and graphics.</li> <li>○ If a slide layout is not specified, the software creates the layout automatically.</li> <li>○ It displays the questions in the language selected by the user and tracks their responses in the same language.</li> <li>○ Each survey question and answer screen can use a variety of formats, ranging from a simple Yes/No to tabular grid.</li> <li>○ For questions requiring verbatim or typed-in responses, the software displays a language-sensitive, on-screen soft keyboard that can be used to enter responses.</li> <li>○ The application was developed in MS-Access 2003.</li> </ul>
<p><b>Medical Technologies International</b></p> <p>Ellicott City, MD</p>	<p><b>PATIENT OFFICE ENCOUNTER TRACKER</b> (2002/2003)</p> <ul style="list-style-type: none"> <li>○ A Pocket PC 2002-based database management system (DBMS) for the use of physicians for managing patient visits at clinics and hospitals.</li> <li>○ The system imported patient's data from servers and passed it to iPAQ handhelds/PDAs. The physicians used the iPAQs to report their findings and order procedures. The data was then exported to the servers for billing purposes.</li> <li>○ It had an integrated voice-recording tool through which physicians could leave instructions for their office staff.</li> <li>○ The system was built using Embedded VB 3.0 and allowed integration with departmental or enterprise-level Access or SQL Server databases.</li> <li>○ It also included an MS-Access 2000 workstation module for synchronizing data with PDAs and corporate servers.</li> </ul>
<p><b>Credit Suisse First Boston – Technology Group</b></p> <p>Palo Alto, CA New York, NY</p>	<p><b>EVENT REGISTRATION MANAGER</b> (2001/2002)</p> <ul style="list-style-type: none"> <li>○ A highly customized MS-Access 2000/SQL Server-based DBMS for managing events hosted by the technology group of this very successful equity investment bank.</li> <li>○ The user interface is created on the fly based upon each event's profile and activities that are customizable by the users. The Visual Basic for Applications (VBA) code for this feature spans thousands of lines.</li> <li>○ Special emphasis was placed on making the interface simple and intuitive to require little or no training. Yet, be powerful enough to automate all processes possible.</li> <li>○ Registration data from each event's website is pulled into the database automatically regardless of differences in website contents. Flexibility of design allows the system to be used in a variety of environments, including centralized server, replication of distributed data and onsite set up for an event.</li> <li>○ The system was designed to work with both MS-Access 2000 and MS-SQL Server 7/2000 Back-Ends.</li> </ul>

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<p><b>US Bancorp Piper Jaffray</b></p> <p>Menlo Park, CA</p>	<p><b>MARKETING DATABASE</b> (2001/2002)</p> <ul style="list-style-type: none"> <li>○ An Access 2000-based DBMS used to manage marketing activities of investment bankers and analysts.</li> <li>○ The system pulled contact data from bankers' Excel spreadsheets from various locations on the network, created challenges for duplicate companies and wrote the current status for each company on the spreadsheets.</li> <li>○ The system automatically applies complex business rules to determine winners and losers of challenges.</li> <li>○ It included a powerful querying tool through which users could create their own ad-hoc queries and create custom reports with their choice of fields and filters. These ad-hoc queries could be saved and run whenever needed. Each user had the ability to create practically unlimited number of customized queries for their own use.</li> <li>○ The system was set up with four regional replication servers that synchronized data with a central server.</li> </ul>

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