

FRANCISCO T. MARTINEZ

PO Box 185081, Fort Worth, TX 76181 (214) 288-9458 martin@mfconsulting.com

SKILLS

Operating Systems: Windows 9x, Windows NT, Windows XP, Windows 2000, 2003, 2008, Windows Vista, Windows 7, VMware ESXi 4.0, SUSE Linux Enterprise, openSUSE, Red Hat Linux, CentOS Linux, Mac OS X, Mac iOS, and all versions of DOS.

Languages and/or Programming Tools: .NET, C# (Microsoft and Mono), Visual C++, Visual C++ .NET, Visual Interdev, Visual Basic, Visual Basic .NET, XML, XSLT, SOAP, DHTML, VBScript, JavaScript, Pascal and eMbedded Visual C++, Objective-C 2.0, Apple's Xcode for Mac OS X and iOS development.

Relational Database Management Systems: Microsoft SQL Server 2005 and earlier versions, Microsoft Data Engine (MSDE), PostgreSQL, Sybase ASE (on Linux), Microsoft Jet Database and Oracle 8i Enterprise Edition (Win32 platforms and Solaris 8). Strong MS SQL Server DTS knowledge.

Other Software or APIs: Microsoft .NET Framework SDK, Mono (Open Source .NET Framework SDK), Win32 SDK, Gtk#, ISAPI, ODBC, ADO, MAPI, ASP, ASP.NET, WinForms, COM using MFC and/or ATL, Stingray's Objective Toolkit, Objective Grid, Web Services with Microsoft .NET., Apple's Cocoa, and iPhone SDK, Mobile development for Apple devices (iPhone/iPad) and Windows Mobile Professional 6.5. Can also configure/administer servers and clients of Software Configuration Management (SCM) systems such as Microsoft's Visual Source Safe, CVS and Subversion (SVN). Use InstallShield as well as Jordan Russell's Inno Setup to create "logo compliant" setup routines and installation programs for Windows.

Can install, configure, troubleshoot and administer a LAN/WAN using Linux, Microsoft Windows 2000-2008, and/or Macintosh OS X.

Poses a deep understanding of hardware implementation for desktop computers, servers, and workstations in a networking environment. This knowledge and experience also includes connectivity matters such as network protocols, Virtualization, LAN topologies, cabling, and the basics behind routing. Thoroughly knowledgeable in business applications including word-processing, database, spreadsheet, computerized accounting systems and desktop publishing.

Design and administration of training programs, selection and purchasing of software and hardware at a corporate level, write corporate policies, experienced in counseling personnel, maintaining filing systems, generating and analyzing complex administrative reports. Seasoned in the art of public relations at all levels. Perfectly bilingual English and Spanish: write, read and speech.

ACCOMPLISHMENTS

Apr 10 – Present
Ground Combat Skills Instructor/Fire Team Leader at United States Air Force—Provide US Air Force Security Force members deploying to Iraq, Afghanistan and other Gulf States with the combat skills needed as prescribed by the US Air Force Security Forces Center.

While on active duty, wrote a cross platform electronic exam administration and content management system called SF Tester. This computer applications was written using .C# and the NET Framework and runs on Windows, Linux and Mac OS X. Also wrote various versions of a mil calculation formula application used for range estimation deployed on Windows Mobile phones (MilDotCalc), Apple computers running Mac OSX (Objective-C and Cocoa) and iPhones/iPads (iMilDotCalc). The Windows mobile version was written on C# and relies on .NET Compact Framework. The iOS (iPhone) version was written using Objective-C and the iPhone SDK. These applications are currently selling at the Microsoft Marketplace (App Hub), the Mac App Store, and the iTunes App Store.

Aug 05 –
Apr 10

Information Technology Consultant Self Employed – Provide customers with Information Technology education to assist in strategic planning orient their purchasing decisions; help implement new technology specializing in Open Source solutions and offer rapid on-site response to system outages. Some of the jobs performed for customers include:

Instructed the Novell corporation on how to create and maintain the Mono Combined Installer for Windows to assist in their effort to take over the creation and deployment of subsequent releases of the installer package. This installer system was of my original designed and had been the Windows Installer package that was provided at the official Mono project downloads page for over seven of Mono's releases. The creation of the Mono Combined Installer for Windows involves the use and knowledge of C#, C/C++, PascalScript and the Inno Setup installer creation toolkit.

Modify a Windows Forms (.NET Framework) rich client application and its associated components for Lockheed-Martin/Novell, King of Prussia, PA, used to monitor and re-task individual satellites within the US GPS satellite constellation in order for it to run on a SUSE Linux Enterprise Linux server. The integration project called for some of the user interface components to be re-arranged or substituted for the best presentation and portability between Microsoft .NET Framework Runtime while in Windows and Mono's implementation of WinForms while on UNIX/Linux.

Migrate an ASP.NET web application for Sevis Systems, Plano TX, that served as a web front end to manage, administrate and report on hardware telecommunication switches of their own manufacturing hosted on a Windows 2003 Server and a data tier provided by MS SQL Server 2005 to a Mono (open source .NET implementation) ASP.NET web application hosted by CentOS Linux server running Apache/Mod_Mono and a database tier using MySQL. The migration project called for minimal rewrite of the .NET web interface code, some adjustments on the database stored procedures and the .NET code that called on them and a complete document on how to install and configure the Mono runtime environment on a CentOS server.

Dec 02 –
Aug 05

Software Engineer at HEALTHvision, Inc. Irving Texas – Perform new development; devise systems architecture and strategies as well as maintenance of the existing code base. Member of the .NET Development committee in HEALTHvision. This last entity is responsible to detail and prescribe the standard operating procedures that guide all product development life cycle as it relates to .NET technologies.

Designed and implemented an innovative State Management System that permits among other things, the exchange of Application and Session object contents between Microsoft ASP and ASP.NET web applications. The components of this system were written in C# for the .NET parts and C++ ATL for the COM objects. This system is modeled after the Model View Controller paradigm.

Authored various projects that use ASP.NET Web Forms and ADO.NET. Created a Web Service in C# used for purposes of authentication in a fashion similar to MS Passport.

Have also created various Windows Forms applications used for utilitarian purposes that range from GDI+ graphic image generation to Visual Source Safe source code file reporting and workflow. Proactively researching the capabilities and compatibility issues of Mono -- an Open Source implementation of the .NET Framework.

Author of the HV Remote Print Server (HVRPS). A server system that can be installed over the web at a geographically dispersed practice or clinic that enhances

the printing capabilities for the company's web based services. The system enables customers running the browser based clinical applications from a hand held computer to print on demand to printers managed by the designated Remote Print Server. The HVRPS is an example of a Service Oriented Architecture (SOA) application. It uses a low level C/C++ library that permits the custom management of the Windows print spooler. The rest of the C# written components access the library through the Platform Invocation (P/Invoke) mechanisms standard in the .NET Framework. Some of the components of the system use a Postscript emulator and translator layer, ASP .NET Web Services, Mono's Web Server (XSP) and an installer written with InnoSetup. All of the HVRPS can be built completely from the command-line through the use of nmake Makefiles that complement the multiple Visual Studio .NET projects and solutions and the creation of the final installation package.

Mar 00 –
Nov 02

Software Engineering Specialist at RIVA Technologies, Inc. Fort Worth Texas - Responsible for the creation, analysis and implementation of the company's software product offerings. Assist the Sales and Marketing personnel to support key accounts and render technical support when necessary.

Senior Engineer for RIVA's Imperis. Imperis (known as McGraw Hill's ATLAS) is a Microsoft Office 2000 training system to assist in the preparation of individuals seeking Microsoft Office User Specialist (MOUS) certification. Architect of the embedded database used to contain automation scripts, student results, performance statistics and the HTML that is presented in the application's main views.

Designer and sole implementer of a XML document reading mechanism use to dynamically populate the database at runtime during online operation. Designer and implementer of COM objects containing supporting functions invoked during script execution. The application uses MFC, ATL, ODBC, WinInet functions, HTML, XML, and VBScript. Trained senior developers in the use of ODBC record sets and database connection reuse. Migrated the original OLE Document storage mechanism to the more flexible embedded database system. Redesigned the product to provide two modes of operation: stand alone or on-line.

Sole architect, principal developer for DbFeeder. The Imperis content authoring and management system. Designed as an integrated development environment for multiple users working at unison with the Perforce Software Configuration Management system (SCM). The application uses MFC, Objective Toolkit, ATL, Perforce and XML. During this project, developed a C++ API to perform check-out/check-in operations between an application and the Perforce SCM. Redesigned the automated build process for Imperis/ATLAS and the InstallShield setup and installation routine cutting down the delivery process time in more than half.

Database Administrator and Programmer for the Oracle 8i and SQL Server databases used in eTest, the company's flagship product. eTest is a web-based, online testing system offering multiple levels of access and functionality for students, instructors, and administrator. The eTest product is a n-tier system that accomplishes its objectives using J2EE, XML, XSL and its data source may reside on a fully SQL 92 compliant RDBMS for which there are Type 4 JDBC drivers. The original back-end database was designed and modeled using ER Win on Oracle 8i. In charge of testing against 8i versions running on Linux, Solaris and Windows 2000. Converted the database to SQL Server 2000. The conversion was so successful, those only 8 lines of code changes were necessary for the Data Access Beans. Using Java (JFC, JDBC and JDOM), created graphical user interface tool to provide rich client access from Unix based computers to SQL Server, so database administration task could be performed remotely.

Devised a training program for four developers on the use of Visual Studio .NET integrated development environment and an introduction to the C# language and the

.NET Framework. As a result, the trainees quickly became capable of building WinForms based applications that can access database content and output XML documents without further guidance or assistance.

Sep 99 – System Engineer IV at RealPage, Inc. Carrollton Texas – Responsible for defining business problems through daily interactions with customers. Responsible for Mar 00 project planning, estimating, and management of small to medium size projects. Lead other team members in day-to-day activities.

Technical lead and architect of the Advance Technology Group's test platform Server farm. All of the eight servers were configured with Windows 2000 Advance Server and were part of an Active Directory domain. These systems were used to host such server applications as Site Server 3.0, Internet Information Server 5.0, SQL Server 7.0 Enterprise edition and required supporting services such as Dynamic Domain Name System (DDNS) and Microsoft Message Queuing Services.

Jan 98 – Senior Programmer/Analyst at Cellular ONE of Puerto Rico – Responsible for the Jul 99 creation, analysis and implementation of enterprise application software. Supervise and mentor of junior programming staff members and the company's webmaster. Contributor in the creation of the "*Cellular One Solution Framework*" used to organize, manage and track the elaboration of the company's software development requests.

Designed an ISAPI based web report automation and administration system used for the decision support reports provided in the Cellular ONE intranet. This system produces HTML reports and statistics from all RDBMS systems that compose the Cellular ONE data warehouse. All reports that require additional input parameters, have web based entry forms automatically generated (including supporting JavaScript code) by the system. Users of this system are only required to have SQL syntax knowledge for publishing reports. Completely written using MS SQL Server, Visual C++, Visual J++ (for Java applets), ODBC, and ActiveX controls.

Acted as program manager and developer for the final testing and first release of the Repair Center Tracking System (RCTS). Directly responsible to adapt the application's client front end to run in a MS Windows NT Terminal Server environment. Supervised all subsequent release modifications and adaptations performed by development team members. The RCTS is an integrated client/server application with a graphical user interface written in Visual Basic and a back end database founded in MS SQL Server that is distributed across the Cellular ONE's WAN. This system tracks the customer equipment (mobile phones, pagers, etc.) repair activity.

Performed the original implementation/migration from the Lotus cc:Mail electronic messaging system to MS Exchange 5.5. Train the IT Operations staff on administration and support of the system. Author and organizer of the "Train the Trainer" seminars on the MS Outlook for Windows client and the Outlook Web client. Also, re-wrote the existing API DLL used by Cellular ONE programmers to simplify the e-mail enabling of applications from Vendor Independent Messaging (VIM) API to MAPI.

Nov 97 – Consultant at Microsoft Caribbean – Assist Microsoft Consulting Services clients in Jan 98 building mission-critical systems to run on networks of workstations and servers. Responsible for interviewing clients and capturing specific client requirements in concise format. Design and write code for small systems. Build relationships with client technical and project management personnel. Assist in building strong relationships with client management. Work together with field sales personnel to

support account strategy and control objectives.

Author a project plan for the “Corporacion de Empresas de Adiestramiento y Trabajo” (CEAT) Electronic Messaging Project. Directly contributed to the completion of the final documentation of the electronic messaging architecture of the Government of Puerto Rico’s PRStar.Net (one of the engagement contract deliverables).

Aug 97 – Information Technology Consultant Self Employed – Provide customers with
Nov 97 Information Technology education to assist in strategic planning, orient their purchasing decisions, help implement new technology and offer rapid on-site response to system outages. Some of the jobs performed for customers include:

Installation and testing of Vinca Corp. Standby Server software to provide mirroring between two Novell NetWare 3.12 servers, LAN topology revisions and Ethernet cabling rewiring of new Hubs and Switches, at *Wesley Jessen (Puerto Rico)*.

Design and implementation of computer systems at International Hospitality Enterprises. The project included software (MS BackOffice Small Business Server) and hardware selection for server. Architect of the 10 Base-T LAN for 3 workstations and the capability of remote connection for mobile users. Advisor for all logistics coordination between hardware/software vendors. The main use of this system was to provide an internet connection for the users of the LAN and exploit the GroupWare capabilities offered by the Exchange/Outlook combination (shared contacts, calendar, e-mail and FAX). Responsible for the user education of Network administration and daily operations, use of MS Office applications in a shared file and printing services environment.

May 97 – MIS Supervisor at Wesley Jessen, (Puerto Rico), Inc.– Responsible for the
Aug 97 recruitment, supervision, training and support of the application developer staff (3 members) and the operation staff (2 members). Began the re engineering and restructuring of the MIS department at Wesley Jessen (Puerto Rico), Inc. This included the addition of NT server to the LAN, switch the Gupta/SQL Windows development to MS Visual Studio/MS SQL Server, and the migration of 16bit desktop operating system to 32bit. Revise the standard operating procedures for the MIS operations. Trained the MIS operators in the use of HP-UX system administration utilities to better support the plant’s HP 9000 system.

Apr 94 – Programmer/Analyst at Cellular ONE of Puerto Rico- Author of the daily
Apr 97 automated mechanism that feeds the Cellular ONE’s Microsoft SQL Server based Data Warehouse from an RDB database that resides in a VAX system. The communication between these dissimilar platforms required mastery of FTP, software compression/decompression algorithms, MS SQL Server bulk copy functions, and file system level knowledge of both VMS and Windows NTFS. The system was designed using Visual C++ and MFC.

Wrote the Cellular ONE’s “Software and Computer System Usage Policy” and pioneered the Anti-Software Piracy program. As a result of this effort, a sophisticated network control system was instituted. This included hardware inventory, software inventory/metering and LAN traffic statistics reporting.

In charge of the installation, configuration and implementation details for a Document Imaging filing and retrieval system that archives the Customer Invoices, using Computer Output to Laserdisc(COLD) technology. This System uses an optical disk Juke Box Server, a SQL Server, and a report Processing/Filling Workstation. The Software that powers the system is Optika’s FilePower version

4.3. Created a Win32 application to preprocess the Cellular ONE bill images using Visual C++ and MFC.

Installed, configured and implemented the electronic messaging system used in the Cellular ONE's WAN. The Lotus cc:Mail configuration included routing between various Post Offices, creation of all of the User Groups, Bulletin Boards, Individual mailboxes, Dial-In access for field users, and a Pager Gateway. Also created DLLs that relied on VIM to give internally designed applications messaging capabilities and a true 32-bit client for Windows NT workstation Users.

Developed an interactive multimedia touch screen based kiosk application that detailed Cellular ONE's history, product line and services. This system was deployed and used on over five locations across Puerto Rico and the US Virgin Islands. Asymetrix's Multimedia ToolBook was used for the software development.

Aug 92 –
Feb 94

Computer Laboratory Coordinator at Instituto de Educacion Universal, Puerto Rico- Installed a unique 24 Node Multimedia computer network for the development of college students' basic skills at the College division of the IEU. Also designed and implemented three geographically separated 90 node computer networks that were the backbone of the computer laboratories at each of the three IEU Campuses. Trained the entire faculty and other related personnel in the use, administration and maintenance of the institution's network.

Technical Instructor – Responsible for the teaching of a 30-student class on the Microcomputer Operator course. Some of the classes in that curriculum included: Business spreadsheets, Data Bases, Word Processing and Business Presentations. One of the five members of the Curriculum Revision Committee for the Microcomputer Specialist and the Computerized Accounting courses of the IEU.

OPEN SOURCE INVOLVEMENT AND CONTRIBUTIONS

Contributor to the Mono project. The Mono project is an Open Source implementation of the .NET Framework, based on published ECMA standards. Community participation includes assistance of both developers and end users over Mono's IRC channels and mailing lists as well as public speaking appearances at User Groups and conferences. Original author and maintainer of:

Prj2make, a tool that permits the creation of make files (both gmake and nmake style) from Visual Studio .NET, SharpDevelop and MonoDevelop project and solution files. Prj2make began as a stand alone utility with a project website at Novell Forge but now has been incorporated in the suite of tools that are integral and distributed with every release of the Mono Framework.

Mono Combined Installer for Windows, an installation package that includes all of Mono's software development tools and runtime framework, XSP (Mono's ASP.NET compatible web server), Gtk# development and runtime libraries as well as GTK+ development and runtime libraries. This single installation routine allows a "one-stop" installation and configuration of the user's environment while permitting parallel installations of multiple releases. The Mono Combined Installer for Windows can augment a Cygwin installation but does not depend on it or the Microsoft .NET Framework to be present to deliver its full functionality.

Gtk# Installer for the .NET Framework SDK and Runtime, these two installers supplement the MS .NET Framework 1.1 to give applications written for Gtk# the ability to run on systems without Mono but that have the .NET Framework installed. Both installers include GTK+ runtime files and in the SDK version, it also includes development libraries and tools like Glade (a GTK+ UI designer). If the SDK installer detects the presence of Visual Studio .NET 2003 during runtime, it will also install and integrate with Visual Studio providing project templates for Gtk# and Glade# applications both in VB.NET and C#.

VSPrj2Make, a Visual Studio .NET 2003 add-in that helps Mono developers create, test and deploy their applications from within Visual Studio. This add-in was created in accordance with the Microsoft Visual

Studio Add-in creation guidelines while taking advantage of both locally installed versions of the Mono Combined Installer for Windows and Gtk# Installer for .NET Framework SDK.

TRAINING, CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

In-depth .NET Framework (Course given by Jeffrey Richter of Wintellect). System Administration for Microsoft SQL Server 7.0, Microsoft Solutions Framework version 2.0,

US Air Force Security Police Academy, where principles of both physical and industrial security are taught. Non-Commissioned Officer Leadership School, which specializes in Advanced Counseling Techniques, Communication Skills, Management, and Human Relations.

Microsoft Certified Solutions Developer (MCSD). Microsoft Partner (Silver Competency). Active Member of the Apple Developer Program for iOS and Mac OS X.

EDUCATION

Bachelor's degree in Computer Science with the University of Puerto Rico (UPR) in Progress. Currently at sixty-six college credit hours with a GPA of 3.68 in Major and an overall GPA of 2.8 as of May 1999.

Diploma of Microcomputer Operator (over 1,200 class hours) given by the Instituto de Educacion Universal (IEU) accredited by the NATTS (*National Association of Trade and Technical Schools*), Honor Graduate in 1992.

PERSONAL DATA

Current SECRET security clearance (date of investigation: Dec 07, 2006). Awarded TOP SECRET security clearance by the Department of Defense back in 1989. Recipient of the US Air Force Meritorious Service Medal, Department of Defense's Joint Service Commendation Medal and four times awarded the US Air Force Achievement Medal. Enjoy challenging tasks involving important results and imaginative solutions.