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Value Proposition

President and Principal of a privately-held, professional services corporation since 1989. Can size up the current infrastructure; then formulate a cost-effective, incremental strategy that addresses all aspects of architecture, project planning, skills assessment, development, testing, deployment and integration. This will significantly mitigate implementation risk with optimal cost/benefit; separating the hype from what is valuable.

Skills Summary

Over 24 years systems and applications development experience building complex multi-threaded device drivers, event dispatchers, message switches, real-time enterprise integration, highly scalable distributed systems.

Over 16 years experience as systems and applications architect responsible for the architecture, design and development of several complex commercial and proprietary products.

Direct sales, promotions and marketing experience as well as chairing of industry panels at well-known trade shows; serves well in making poised and confident presentations at every level of audience. Have exceptional written and verbal communications skills.

Broad and deep experience with constructing systems for many business verticals (banking, brokerage, retail, public sector, health care, software products, inventory control, message switching, message-oriented middleware), operating systems (NonStop, UNIX, Windows, MSCS, Stratus, VAX-VMS, RSX-11M-Plus, DOS) and programming languages (C++, C, COBOL, Java, TAL, pTAL, BASIC, VAX Assembler), network protocols (TCP/IP, X.25, SNA, LU6.2, 3270, 3780) and project and resources management. Founded and own a Satellite internet business with VoIP franchise in Costa Rica and am CTO of same to provide the most reliable infrastructure available in that country.

Work History

Fidelity National Information Services Senior Systems Consultant

May – July 2009

NonStop, WebSphere MQ, Prognosis, C, TACL, Parallel TCPIP, Microsoft Office 2007, Measure, systems tuning

- Upgraded, tuned and stabilized core MQSeries queue managers for core processing.
- The next task was to set up Prognosis Windows enterprise repository with Web reporting and displays, constructed 140+ custom performance and tuning reports and displays.
- Tuned KMSF and disk cache on eight production servers after writing Prognosis automation to quickly analyze configurations and generate focused monthly analysis reports.
- Assisted in quickly identifying and resolving several production incidents by using advanced skills in Prognosis to quickly identify the root cause.

Bowden Systems Inc.

Senior Architecture Consultant

November 2008 – March 2009

NonStop, Windows Vista, OSS(UNIX), C, noft, nld, TACL, UNIX shell scripts, Parallel TCPIP, Microsoft Office 2003, OSS to NSK porting

- Ported open source prngd program (random number generator) from UNIX to Guardian. The program was stress tested, measured, benchmarked and ported to Itanium.
- The next task was to modify sendmail (Open Source POP3 email server) to manage mailbox file space more efficiently. Designed high-performance SETMODE-141 file system to leverage NonStop technology's fastest file I/O technology and used linked lists and algorithms similar to hard disk sector management.
- Wrote an API that implements UNIX sockets, IPC and terminal file I/O on Guardian that is identical to UNIX with select() to facilitate easier porting of UNIX applications to Guardian.

DirectTV Inc.

Senior Architecture Consultant

November 2007 – August 2008

NonStop, Windows XP, Winsows Server 2003 with MSCS, Prognosis, GoldenGate, Visual Studio .NET 2003, ETK, OSS(UNIX), C, Visual Inspect, noft, nld, TACL, UNIX shell scripts, SQL/MP, SQL/MX, Parallel TCPIP, Microsoft Office 2003, Visio, Subversion, ant

- Was initially engaged to tune 48 CPU NonStop environment comprised of two clustered pairs of nodes with RDF synchronized databases. Found performance problems with SQL queries and made recommendations to redistribute DP2 processes to more evenly spread load. Also helped shape roadmap for future upgrades and software/hardware architecture.

- Spearheaded initiative to acquire Prognosis for performance monitoring and capacity planning. Did all work to implement product from POC to production and development deployment. Implemented the first fully fault tolerant Prognosis deployment on Windows Servers clustered with MSCS and SAN storage that can survive any single point of failure. Implemented historical data collection that will save performance data for years. Developed web dashboard, several extractors and dozens of displays and implemented thresholds.
- Constructed a fully automated application build with ETK that takes the entire suite of 150+ Tuxedo servers and libraries from Subversion source code base to SQL-compiled and deployed to multiple production servers as labeled releases – complete with all startup and shutdown scripts. This solution separates packaging from configuration so that code can be seamlessly deployed to multiple code bases with the same common scripts and assets using an “overloading” methodology. Deployment reliability was significantly improved.
- Was technical lead on \$3M hardware upgrade initiative that was completed in just four months.

Sabre Holdings Inc.
End-to-end Engineer
October 2005 – January 2007

NonStop, Linux, Windows XP, Prognosis, WebSphere MQ, Visual Studio .NET 2003, ETK, OSS(UNIX), C, Visual Inspect, noft, nld, TACL, UNIX shell scripts, SQL/MP, SQL/MX, Java, Pathway, Parallel TCPIP, Microsoft Office 2003, Visio, ClearCase

- Key integration role, responsible for operational health, architecture and integration of all applications through a complex environment of mainframes, UNIX Servers, NonStop servers, CORBA, J2EE, MQSeries and much more; with particular focus on NonStop systems and their integration with these other entities.
- Involved with vendor and product selection in evolving infrastructure, teamed with system owners.
- Significant contributions in helping development teams achieve an operational continuous integration environment and implementing a workable reusable code infrastructure.

TSYS Inc.
MQSeries Architecture Consultant
March 2005 – April 2005

NonStop, Windows XP, WebSphere MQ, Visual Studio .NET 2003, ETK, OSS(UNIX), C, Visual Inspect, noft, nld, TACL, UNIX shell scripts, nmcobol, SQL/MP, Pathway, Parallel TCPIP, Microsoft Office 2003

- Installed, configured and tuned MQSeries middleware on the HP NonStop servers to handle huge volume of traffic and provided stress-testing to verify and validate capacity interfaces with mainframes.
- Implemented proof of concept to migrate enterprise traffic from LU6.2 proprietary messaging infrastructure to MQSeries over TCP/IP.

Home Depot, Inc.
MQSeries Architecture Consultant
June 2004 - October 2004

NonStop, Windows 2000, WebSphere MQ, Visual Studio .NET 2003, ETK, OSS(UNIX), C, C++, Visual Inspect, ControlCS, noft, nld, Java, CGI, TACL, XML, UNIX shell scripts, ITP WebServer (Tomcat), COBOL85, nmcobol, SQL/MP, Pathway, Parallel TCPIP, Enable, Microsoft Office 2003, Visio

- Installed, configured and tuned MQSeries middleware on the HP NonStop server to handle huge volume of traffic and integrated it with existing systems.
- Completed tasks ahead of schedule, thereby saving the company many man-hours.
- Set up a master build workstation, creating a fully automated master build using ControlCS software (which I installed and configured), documenting the process and training staff to use it.

ITS Incorporated
NonStop ZLE Architecture Consultant
June 2003 - March 2004

NonStop, Windows 2000, ZLE, Visual Studio .NET 2003, ETK, OSS(UNIX), C++, JTS/OTS, TMF, Visual Inspect, noft, nld, ClearCase, Rational Rose/UML, TACL, XML, UNIX shell scripts, CORBA, SQL/MX, SQL/MP, ODBC, Measure, Pathway, Microsoft Office 2003, Visio, DOCSYS

- As one of five members of the Architecture Team, I was given the initial mandate to implement a fully-integrated metrics subsystem.
- Created architecture and design documents of the Metrics Subsystem using Rational Rose and UML. I then implemented the Metrics Subsystem client component.
- Integrated ClearCase release management software with daily-build automation and complex Unix and TACL scripts to deploy fully implemented sandboxes, complete with RDBMS catalog, Pathway environment, properly configured CORBA and catalogued network resources.
- Participated in architecture brainstorming sessions and document reviews to help shape team deliverables.

McKesson Corporation
MQSeries Architecture Consultant
October 2002 - June 2003

NonStop, Windows 2000, WebSphere MQ (MQSeries), C, nmcobol, Java, TACL, SQL/MP, Pathway, Microsoft Office 2003

- Installed, configured, secured and tuned MQSeries on production and development servers; created middleware to simplify integration with existing COBOL servers and documented all deliverables.
- This deliverable had already slipped badly on the project schedule, and the client was very apprehensive. By my quickly evaluating and addressing architecture flaws, participating in the weekly status meetings, creating a well-defined set of deliverables, and exceeding deadlines, the client became more comfortable.

Hewlett-Packard**NonStop Software Engineering Consultant****February 2002 - March 2002***NonStop, Windows 2000, Java, TACL, XML, OSS(UNIX), UNIX shell scripts, ITP WebServer (Tomcat), Pathway, Parallel TCPIP, Microsoft Office 2003*

- As this client (Continental Airlines) had little in-house experience with the NonStop platform, my mandate was to help them set up and integrate the various systems.
- Mentored both development and systems personnel.
- On first arriving, we identified the need to install SAMBA so developers could access the NonStop OSS file system from their desktops. We then configured the Pathway environment to run the Java servers they had developed on PC and did performance testing to demonstrate the linear scalability of the NonStop platform.

Sprint Corporation**Software Engineering Consultant****October 2001 - November 2001***NonStop, Windows 2000, OSS(UNIX), C, noft, nld, ClearCase, TACL, XML, UNIX shell scripts, CORBA, SQL/MP, Pathway, Microsoft Office 2003*

- Was subcontracted to find memory leaks in their call records capture system
- There was a lot of code to review and only six weeks to find the leaks.
- Out of three production programs with memory leaks, resolved two. Due to the low business impact, Sprint decided not to apply additional resources to resolve the third.

Compaq Computer Corporation**NonStop ZLE Architecture Consultant****October 2000 - June 2001***NonStop, Windows 2000, ZLE, Visual Studio .NET 2003, ETK, C++, Visual Inspect, noft, nld, TACL, OSS(UNIX), UNIX shell scripts, TMF, CORBA, SQL/MP, ODBC, Pathway, ftp, TCP/IP, Microsoft Office 2003, Visio*

- This global technology leader had a \$50 million contract with Target Corporation (\$50 billion in revenue) to implement the first Zero Latency Enterprise (ZLE) by tying seven operating companies together into a single operational data store (seven terabytes) to give a single system view of the customer. My mission was to tune the 48 CPU production servers.
- The client was so impressed that I was asked to take over the role of Compaq's on-site advisory architect.
- Assessed the data loader server code as unsalvageable, wrote a reference loader CORBA/C++ program that had 60% fewer lines, and provided a great deal of reusable code.

Network Concepts, Inc.**Software Architecture Consultant****July 2000 - September 2000***NonStop, Windows 2000, VPN, Borland C cross compiler, C, noft, nld, TACL, UNIX shell scripts, ENSCRIBE, Pathway, Microsoft Office, Visio, NonStop process pairs*

- Assisted in porting their UNIX code base for their ControlCS code management software to the OSS environment of Tandem NSK and helped implement integration with the Guardian file system.
- Resolved security issues, process identities, application repartitioning, properly configuring the environment, enabling UNIX and BSD sockets and more.

Philadelphia Stock Exchange**Software Engineering Consultant****February 2000 - May 2000***Stratus, Windows NT, VOS, Command Macros, C, Microsoft Office*

- My mandate as a consultant was to help them convert from fractional pricing to decimalization.
- Developed price encapsulation routines used by the rest of the team and conversion of the Quotes Processing subsystem that applied OPRA and local options quotes as well as underlying securities pricing from NASD to the PHLX market database.
- The engineering team adopted my proposed solution on how to properly represent decimal data without losing precision between the Stratus and Sun systems.
- Actively participated in the design, development and code reviews of core system components.

NHIC (EDS)**Software Engineering Consultant****Nov. 1999 - Feb. 2000***NonStop, Windows NT, Borland cross compiler, C, TMF, noft, nld, nmcobol, TACL, SQL/MP, Pathway, Microsoft Office*

- Mandate was to help tune SQL queries to solve performance problems for the State of Texas Medicaid/Medicare billing system.
- Analyzed complex query explain plans and applied techniques for improving performance.

Candle Corporation**MQSeries Consultant and Team Lead****April 1999 - August 1999***Solaris, Windows NT, MQSeries, C++, C, POSIX Threads, UNIX, UNIX shell scripts, Sybase SQL, TCP/IP, Microsoft Office, Visio*

- Subcontracted to act as architect and project lead over a team of five people. The mission was to port a TAL/NonStop application onto Sun Solaris and make it fault-tolerant with a budget of \$300,000, to be completed within 90 days for their client, the Chicago Board of Trade. Options trades from the automated trading system were formatted into billing records, put on an MQSeries queue for delivery to the back office IBM mainframe and a backup message was put on another queue on a hot-standby Sun Solaris server. Additional software was needed for the hot standby to do failover detection and recovery. The solution was required to ensure no loss or duplication of messages. Project was on time and on budget.
- Brought in key team members of my choosing, produced a design, and constructed the application.
- Wrote the functional specification and design documents.

ORBCOMM, L.P.**First Architect****October 1998 - February 1999***HP-UX, Windows NT, UNIX, C, UNIX shell scripts, Oracle/SQL, TCP/IP, Microsoft Office, Visio*

- My mission was to design a guaranteed delivery message switch (GMSS) capable of sustaining fifty 1Kbyte messages per second on a HP-UX 7000 series server that would be scalable to 500 messages per second.
- Supervised a team of five engineers
- Designed a message switch that was predicated on ServerNet and MyraNet high speed bus technologies. Produced a verified design capable of sustaining tens of thousands of transactions per second.

Seer Technologies Inc.**Middleware Architecture Consultant****October 1996 - July 1998***NonStop (was also systems administrator), Windows NT, Solaris, OSS(UNIX), C, NFS, Hummingbird (X-windows and NFS), sccs, noft, nld, TACL, TMF, UNIX shell scripts, nmcobol, TAL, pTAL, SQL/MP, Pathway, TCP/IP, sockets, SYSGEN, COUP, EXPAND, NFS, Safeguard, QIO, SCF*

- Engaged to port their NetEssential and HPS-Server 4GL components to the NonStop OSS (UNIX) platform.
- Performed all operations and systems administration support on two NonStop development servers.
- Set up NFS, wrote all TCP/IP sockets and CPIC LU6.2 listener and middleware software, established security policy in our distributed environment, wrote automation software that generated NSK platform-specific source code, wrote data marshalling routines, and participated in all architecture reviews.
- Constructed release packaging with automated and comprehensive deployment wizards, developed sandboxes, and automated daily builds with integrated regression testing.

AMSYS North America Inc**Chief Architect****January 1996 - October 1996***NonStop (was also systems administrator), Windows NT, Microsoft Visual C++, DWF, SourceSafe, TACL, ENSCRIBE, Pathway, TCP/IP, sockets, SNAX, ICE, SYSGEN, COUP, EXPAND, NFS, Safeguard, QIO, SCF, Microsoft Office, Visio*

- Ported the IBM Mayflower UNIX (MQSeries) reference code base to the NonStop platform, did detailed analysis, design and substantially shaped architecture in brainstorming sessions with two other senior engineers.
- Mentored the team of 12 developers on how to leverage NonStop architecture fundamentals, supervised three of them, built several key subsystems myself and contributed 26 key architecture innovations.

Momentum Software Corp**Middleware Architecture Consultant****December 1994 - December 1995***NonStop (was also systems administrator), Windows NT, Solaris, VAX-VMS, HP-UX, C, TACL, ENSCRIBE, Active NonStop C, TCP/IP, sockets, DIVER, SYSGEN, COUP, Safeguard, QIO, SCF, Microsoft Office*

- Was contracted to port their product onto the Tandem NonStop server platform. This small venture capital startup was a pioneer in MOM technology with their XIPC product. This product went on to become the foundational plumbing of Microsoft's MSMQ on all non-Microsoft platforms and was marketed by Level 8 Inc. (who subsequently acquired Momentum) as FalconMQ.
- Negotiated their Tandem Alliance Strategic Partner agreement, uncrating and completely configuring the NonStop development server, all architecture, design, development (including writing first ever Active NonStop C servers) to implement fault-tolerant shared memory, integration, and technical support.

Ministry of the Solicitor General & Correctional Svcs**Architect****October 1993 - November 1994***NonStop, Windows 3.1, Microsoft C, TACL, TMF, ENSCRIBE, Pathway, TCP/IP, sockets, WinSock, SNAX, ICE, Safeguard, QIO, SCF, Microsoft Word*

- Implemented the world's first wireless wide-area network, which involved connecting 50 workstations operated by Ontario Provincial Police, four regional police forces, Ministry of Health Ambulance Services, and Ministry of Transportation (MTO) Carrier Enforcement Division to several host computers concurrently.

- Was one of two key architects responsible for shaping requirements and evaluating telecommunications technology. I identified the critical success factor – the wireless message switch – and made sure it was properly identified as a mandatory RFP requirement.
- To achieve a seamless applications interface to the network, I designed and developed a Middleware API. The applications deployed included Computer Aided Dispatch (i.e., OMPPAC, PRC and Intergraph), Electronic Ticketing, Criminal Offenses Database, MTO proprietary systems and ARIS.
- Received Certificates of Appreciation from the Government of Ontario.
See: http://www.mobileinfo.com/case_study/publicsafety_law_fire_amb/gov_public%20safety.htm



Miscellaneous:

Chaired three panels at COMDEX Canada on Message Oriented Middleware (MOM) and am regarded as a pioneer in this technology:

- Comdex '94 - Client Server Middleware
- Comdex '95 - Messaging Alternatives
- Comdex '96 - Message Oriented Middleware

Education:

Computer Programmer Diploma - With Honors (3.6 GPA); graduated 2nd in class from Seneca College of Applied Arts and Technology, Toronto 1985

Prognosis Certification

GoldenGate Certification