

Objective

To obtain a senior leadership role within an industry changing technology organization, where my proven skills in business consulting, software development, and the delivery of innovative technology solutions will directly contribute to success of the company.

Qualifications

- Twelve years experience managing multi-disciplinary technical teams; ten years of active software development; seven years delivering software solutions directly to end customers within professional services organizations; eight years building, securing and administering UNIX networks; six years of IP network design for converged voice & data pre-WiMAX cellular backhaul, and enterprise networks
- Extensive experience in client-focused consulting environments, working closely with Sales and Account Management teams in both pre-sales and solutions delivery roles. Very comfortable and experienced interacting directly with clients and technical teams alike.
- Engineering graduate, with a focus on computer systems design and software development.

Accomplishments

- Led the architecture and development teams that successfully delivered multiple concurrent implementations to international cable and wireless operators, contributing over \$20M to the organization's annual revenue
- Assisted in the development and presentation of new business proposals to wireless telecommunications service providers, resulting in technical trials and market deployments. Involved in all aspects of integration planning and deployment.
- Managed and mentored technical staff during the design and development of fault-tolerant, high-performance, UNIX-based systems software for the configuration, provisioning and management of a pre-WiMAX equipment vendor of an industry-leading converged voice & data service over a proprietary cellular wireless technology
- Designed and managed the implementation of an industry-first E-commerce system.
- Managed development teams working on both client-based projects and software product development for a \$6M/yr, 100-person Internet consulting company.
- Led the IT operations for a \$22M/yr, 300-person national advertising agency.
- Established the regional office for a \$4M/yr, 75-person systems integration firm.

Professional Experience

<u>Sigma Systems</u>	2005 – current
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Director, Solutions Architecture (2006 – current)

- Lead the architecture team of Solutions Architects (10) and Business Systems Analysts (1 manager with 20 directs), within the professional services organization in Canada and India.
- On an interim basis (6 months), concurrently managed the software development team within the professional services organization in Toronto, via 4 managers with a total of 30 direct reports (Business Systems Analysts, Tech Leads, and Developers). Dotted line responsibility for an off-shore (India) team development team of 50, reporting into 5 development managers.
- Provide senior technical guidance across all projects
- Define the consulting process for requirements gathering, documentation, high-level design and development, including current best practices and evolution from waterfall to Agile-inspired methodologies
- Work closely with the Executive team for new business, company growth, strategic planning and operational improvements
- Engage with the Sales organization for pre-sales activities including RFP/RFI response, estimation, and client presentations

Solutions Architect (2005)

- Interacted directly with cable and telecommunications clients to define requirements, architecture and high-level design for the implementation and customization of our OSS solution for VoIP, Circuit-Switched Voice, Wireless, Video and High Speed Data provisioning
- Engaged directly with development teams (10-20 people) during the design, development and deployment of product customizations, enhancements and new software applications.
- Monitored industry developments and trends in VoIP and Broadband Fixed Wireless Access, to help define the evolution of our product platform. Presented the trends and product roadmap to the senior management of our clients.

Technologies: BEA Weblogic, J2EE, Oracle 9/10, Solaris; IMS, IPTV, Nortel CS2K, Cisco BTS, Cisco BACC, ADC/BigBand FastFlow, CSG ACP/V, Arris & Cornerstone CPE, CLEC & LEC Integration (E911, LSR/LSC, BLIF/CLIF, BNS, NPAC/Neustar).

Sapient

2004–2005

Manager of Technology / Architect

Automotive Order Management System Migration [General Motors] – 11 months

- Managed all technical aspects of a system migration from a domestic order management and delivery reporting system to the global common platform. Managed a team of ~10 Business Analysts, System Analysts, Software Architects and Software Developers.
- Facilitated sessions with business and technical owners to map current state business functions to the To-Be environment.

Technologies: J2EE, Oracle 9i, DB2, Solaris; AS 400

Financial Investment Platform Design [Bank of Nova Scotia] – 3 months

- Contributed to the technical design of a new banking infrastructure managing all Non-Registered bank accounts (cash & GIC), including the design of a customized web front-end.
- Managed the field-level XML mapping of the software vendor's messaging framework to the bank's proposed mid-tier and presentation tiers.
- Liaised with the bank's Architecture team to establish the Non-Functional Requirements for the design and to ensure that the software and hardware guidelines were followed.

Technologies: J2EE, Oracle 9i, Solaris, XML

SOMA Networks

2000–2004

Systems Integration Architect (2002–2004)

- Translated customer requirements into PLM requirements and high-level Engineering designs. Worked closely with the Engineering staff during development of customer specific features.
- Worked closely with the Sales team and clients to identify hardware and software requirements unique to each client deployment.
- Directed the Network Design team (~5 people) for pre- and post-sales integration planning. Created and reviewed network integration planning documents.
- Managed the planning and implementation of OSS, billing and Network Management integration. Accompanied the Account Managers to client meetings, often as the primary representative of Software Engineering.
- Responded to customer RFP's and attended off-site presentations to clients.
- Created standardized network designs and integration planning documents.

Technologies: Cisco routers, switches, voice gateways; Juniper routers; HP Openview, AdventNet WebNMS; XML/SOAP.

Software Development Manager (2000–2003)

- Hands-on technical manager of a team of 15-20 Java developers, Software Architects, Web Developers, Database Architects, and UNIX System Administrators
- Oversaw the development of Java-based, Oracle-backed software running on Sun Solaris, that provides provisioning (OSS), billing and configuration management services for SOMA's VoIP and broadband fixed wireless system. Focus was on performance, reliability and availability.
- Wrote and reviewed technical design documentation
- Implemented SDLC processes for the group: architecture, design, implementation, testing, code review; hands-on involvement in all stages.
- Wrote the initial build and installation code for the product.

- Provided Level-3 support to field deployment teams working in North America and internationally.

Technologies: Solaris & Linux, Java, VoIP, Tomcat, Oracle 8i/9i, SOAP, XML, LDAP, Ant, bash, Perl, Veritas Cluster Server / NetBackup / VxFS, IP multicasting, RADIUS, SNMP, SIP, SS7, CDMA

Grey Canada / Grey Interactive (concurrent)

1997–2000

Director of Programming and Development, Grey Interactive

- Manager and senior technical mentor for ~40 R&D and software consulting staff (Application, Web, E-Commerce, and IVR developers; Information Architects; Database Architects; User Interface Designers; UNIX & NT Systems Administrators)
- Managed technical staff in the design and implementation of Intranets, web sites, and custom software applications for a diverse range of clients.
- Product Development Manager for web-based software applications: managing technical scope, functional specifications, timelines, budgets, team scheduling, market analysis, strategic partnerships.
- Support the Sales and Account Management teams at client meetings.
- Key team member in the creation of proposals: definition of project scope, technical specifications, scheduling and price estimation for work ranging from \$50k – \$500k.

Technologies: Microsoft: IIS, SQL Server, Site Server Commerce Edition, Clustering, Visual Basic, Visual C++, ASP; UNIX (Solaris & Linux): C, Perl, Apache, DNS; Other: HTML, JavaScript (client and server-side), Cold Fusion, and OpenMarket Transact.

Chief Information Officer, Grey Canada

- Responsible for determining strategic technical direction for head office and all remote offices.
- Management of IT department of ~8 full-time and contract staff, supporting 300+ end-users, NT/Novell networks, Nortel PBX, Linux VPN and firewalls.
- Responsible for forecasting yearly capital budget (\$1.5M) for corporate business plan, and approving all expenditures during the year.

Highlights: NT domains, Y2K compliance, Cisco PIX, T3 with T1 failover, Linux, Netware, Meridian Mail & Phones, remote PBX over dark fiber, SNMP monitoring & paging.

Ingenia Communications

1996–1997

General Manager

- Delivered web and custom application design and deployment services to the Financial and Government vertical markets for network security services, web sites and Intranets.
- Established and grew the Toronto office to 6 full-time staff and annual revenues of \$500k.
- Responsible for all Business Development, Marketing, and Project Management, in addition to programming in C, Perl and HTML.
- Created key partnerships with Netscape, Sun Microsystems, and Toronto design firms, which were leveraged to rapidly expand customer base through joint bidding.

Technologies: Linux, Solaris, Irix, NT 4.0; Netscape Servers (Mail, LDAP, Livewire, Merchant, Publishing); Perl, C, bash; server-side JavaScript; Informix, Oracle 7.x; HTML.

Web Networks (now OpenText Corp.)

1995–1996

Systems Administrator / Programmer (contract)

- Designed and produced a comprehensive dial-up networking package for users.
- Migration of a proprietary conferencing system to a standards-based system.
- Technical support for IP network and web services (internally, and to clients).
- UNIX systems administration.

Technologies: C, C++, PPP, NNTP, SunOS/Solaris, dial-up modem pools.

AECL Research

1994–1995

Software Programmer/Analyst (contract)

- Development of a Visual C program to link AutoCAD wiring drawings to a back-end database.

Technical Skills

- Network Design: PacketCable networking for VoIP, IP network implementations, Layer 3 QoS, ISDN/T1/T3 connectivity with fail-over configurations, OSPF/RIP, Cisco PIX and Linux firewalls, transport and application level protocols, fiber-optic networks (voice & data)
- Programming: UNIX shell, Perl, C/C++, "HTML", Java, JavaScript, FORTRAN
- Databases: Oracle, MySQL, Microsoft SQL Server, Informix
- Security Design: IP networks and UNIX servers.
- High Availability: Veritas Cluster Server, Veritas Filesystem, Veritas NetBackup, Nagios (Netsaint), Big Brother, Oracle HA, BEA Weblogic
- Systems Administration: Linux, SunOS/Solaris, IRIX, HP-UX, Windows NT, Novell Netware
- Network Administration: Cisco, Juniper and Extreme equipment

Education

1994 Bachelor of Applied Science: Engineering Science

University of Toronto, Faculty of Applied Science and Engineering