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Synopsis

Over twenty years combined experience in the information technology field as an **IT Consultant, Project Manager, Technical and System of Systems Architect, Systems Engineer**, and as a **Canadian Forces Communications and Electronics Engineering Officer**. Extensive experience in the provision and management of network and web based information and e-commerce systems, software engineering services, information systems security services, telecommunications, and command and control communications. Excellent management and communications skills and described as “results oriented” and “biased towards action”. Self-motivated and dependable, a client focused team player with excellent problem solving skills whom is eager to pursue new opportunities and challenges.

Employment Objective: To become a valued leader of a highly skilled and motivated team working in the area of project management, systems architecture, mission critical mobile communications, and web based e-commerce or business automation solutions.

Education

- Masters of Engineering (M.Eng.) Department of Systems and Computer Engineering, Carleton University, 1989.
- Bachelor of Engineering (B.Eng.) Computer Engineering, Royal Roads Military College/Royal Military College of Canada, 1983.

Professional Status

- Professional Engineer (P.Eng.), Member of Professional Engineers Ontario (PEO) since 1992.
- Project Management Professional (PMP) since April 2003.
- Member, Project Management Institute, Ottawa Valley Outaouais Chapter since April 2003.
- Director, Project Management Institute, Ottawa Valley Outaouais Chapter, Jan 2005 – Dec 2006.
- Canadian Controlled Goods Program Registration – #23071.

Significant Projects and Achievements

- Lead Systems Architect for the Canadian Army C3 system (Land Command Support System - LCSS)
- Key member of the system architecture team for the Canadian Forces deployment to Afghanistan – Operation Archer;
- Successfully developed systems development solutions and systems architecture for the Canadian Army’s Land Command Support System;
- Successfully implemented systems engineering processes within a diverse stakeholder environment involving large contracts and initiatives (DND Land Command Support System, Iris, MASIS, ISTAR).
- Successfully delivered the DND In-Service Support Feasibility Study on time and under budget a comprehensive report using a diverse team to meet client needs despite having a compressed schedule.
- Successfully delivered on time and despite numerous client delays a series of IM/IT analysis and proposal documents critical to the DND Supply Chain project.
- Successfully delivered the project plan that was endorsed by the Assistant Deputy Minister Supply Operation Services and approved by the Treasury Board Secretariat that was a requirement for the release of a significant portion of the project’s Preliminary Project Approval (PPA) funding for the Electronic Supply Chain Program.
- e-Purchasing Project audit report noted: “E-Purchasing has been a well-managed project”.
- Developed the approved phase 1 technical architecture for the e-Purchasing project.
- Developed the technical architecture (including HTML SQL query access to Access databases using ASP and IIS on NT) that provided access to critical engineering information (software problem reports related to the TCCCS project) to project engineers in Calgary and Ottawa.
- Planned and executed transition from single DOS based LAN to 13 LAN MAN based on Windows 3.11 and then to fibre optic cable plant/HP Netserver/Cisco Router MAN while maintaining WAN connectivity to the Department of National Defence for CFB Shilo.
- Managed operating and procurement budgets approaching \$1 Million yearly

- Initiated, developed the technical architecture and implemented a telecommunications hardware upgrade project (auto-attendant/voice mail) and lease management initiatives that resulted in significant operating budget savings and a ROI of less than 24 months.
- Accomplished webmaster: Ottawa Parrot Club (Jun 01 – Nov 02) , <http://carloth.net/nanaimoparkjugglers/> , <http://carloth.net/rightonthehead/> ,CFB Shilo community web site (1993-1996).
- Successfully completed consulting contract to automate the production tracking and invoicing procedures for Richard Rumi & Co. Application developed in 1989 still in use today (2005).
- Managing Juggler of the Nanaimo Park Jugglers and the “Right On The Head Juggling Troop” since Nov 01. Performed as juggler in La Boheme (professional opera), National Arts Center, April 2002 and for numerous corporate, public and private sector clients.

Work History

- Feb 08 - Present **System of Systems Architect, Deputy Project Manager**, Directorate Land Command Systems Program Management (DLCSPM), DND; 1590487 Ontario Ltd., Ottawa, Ontario.
As the System of System (SoS) architect for the Army's command, control and communications (C3) system, the Land Command Support System (LCSS), was responsible for identifying and resolving pan system architecture issues including chairing the weekly SoS Working Group and assisting in the development, coordination and execution of a SoS prototype implementation demonstration. As the Deputy PM for the LCSS Life Extension (LE) project, was responsible to support the PM (DLCSPM 3) during the definition phase of the project.
- Jul 08 – Feb 08 **Lead Architect**, Directorate Land Command Systems Program Management (DLCSPM), DND; 1590487 Ontario Ltd., Ottawa, Ontario.
With a team of architects, developed architecture and implemented architecture prototypes for the Army's command, control and communications (C3) system, the Land Command Support System (LCSS) target architecture. This included the development of system requirements and architecture development processes.
- Dec 03 – Jul 08 **Systems Architect, Systems Engineer, Deputy Project Manager**, Directorate Land Command Systems Program Management (DLCSPM), DND; 1590487 Ontario Ltd., Ottawa, Ontario.
With a team of architects, engineers, IM, Process and CM specialists, provided systems and technical architecture, systems engineering and project management services for the Army's Land Command Support System (LCSS) System including special architectures for international operations (Operation Archer in Afghanistan) and multinational interoperability exercises. The LCSS is the Army C4ISR system and includes interfaces with Canadian Forces C4ISR systems. Systems and Technical architecture duties included reviewing and providing input to the systems and technical architecture for the LCSS including developing and documenting Operational System Scenarios, assisting in the development of architectural frameworks (using of the DoD Architectural Framework, and IEEE Std 1471-2000), developing and documenting system development methodologies and plans, modeling the LCSS using UML, and participating in architecture system action teams and requirements definition activities (Focus Groups, Join Application Design – JAD) with LCSS stakeholders.
- Aug 02 – Dec 03 **Technical Architect, Systems Engineer, Deputy Project Manager**, Directorate Land Command Systems Program Management (DLCSPM), DND; [ADGA Group Consultants Inc.](#), Ottawa, Ontario.
Providing project management, technical architecture and systems engineering services for the transition from development to in-service support of the Army's Land Command System, a system of systems, which includes the Iris communication system and the Athene tactical system. Technical architecture duties included reviewing and providing input to the technical architecture for a major interoperability exercise, assisting in the development of the Land Command Support System (LCSS) architecture using IEEE 1471, development of statements of work for several system prototypes, and participating in system of systems/subsystem technical coordination meetings with the prime contractor. System engineering management duties included implementing systems engineering processes (problem resolution, supplier agreement management, configuration management, life cycle maintenance support) and coordinating/facilitating the Systems Engineering Working Group (SEWG) within a diverse stakeholder environment involving large contracts systems and initiatives (Land Command Support System, MASIS, ISTAR). As the deputy project manager for the transition project prepared the project charter, WBS, schedule and coordinated weekly project meetings.
- May 02 – Jul 02 **Project Manager and Systems Engineer**, In-Service Support Feasibility Study, DND; [ADGA Group Consultants Inc.](#), Ottawa, Ontario.
Managing a team of 6 prepared a study on the in-service support feasibility of the LCSS.

- Feb 02 – Present **Technical Architect, Project Manager**, Ottawa Bridal Fair, Ottawa, Ontario.
 Technical architect and project Manager for the highly successful web site development of the OttawaBridalFair.com web site (<http://ottawabridalfair.com>), which includes an interactive database component developed on a Linux server using Apache with MySQL, PHP, PERL, Java Script, and HTML/DHTML. Performed a technical audit, prepared a functional specification, sourced and managed the web development team, developed and implemented the technical architecture for the site, and implemented a web based collaboration system. Currently am performing the system analysis and am preparing a proposed technical architecture for the addition of a web based payment and settlement capability via credit card.
- Sep 01 – May 02 **Senior Systems Engineer**, DND Supply Chain Project, [ADGA Group Consultants Inc.](#), Ottawa, Ontario.
 The DND Supply Chain Project is a major Alternate Service Deliver (ASD) project being undertaken by the Department of National Defence whose ultimate goal is the outsourcing of the DND Supply Chain. As the Senior System Engineer during the phase 1 definition phase tasks include IM/IT systems baseline data capture including external interfaces, IM/IT systems analysis, IM/IT business case analysis and production, WBS creation, planning, scheduling, IM/IT systems architecture development, IM/IT process design (maintenance, development, operations), transition and implementation plan production, communicating IM/IT plans and recommended courses of action to an Integrated Project Team (IPT).
- Jan 00 - Sep 01 **Deputy Project Manager, Technical Architect**, [ADGA Group Consultants Inc.](#), Ottawa, Ontario.
 Deputy Project Manager the \$56.467M (indicative cost) Electronic Supply Chain Program for the Electronic Supply Chain (ESC) Sector of the Supply Operations Services Branch (SOSB) of Public Works and Government Services Canada (PWGSC) and Project Manager for the \$2 Million (approx phases 1 & 2) Electronic Purchasing project for the Government Telecommunications and Informatics Services (GTIS) agency of Public Works and Government Services Canada (PWGSC). The e-Purchasing project is delivering an end-to-end web based solution allowing electronic ordering through to settlement and payment. The e-Purchasing project was a Government-On-Line pathfinder initiative. Participated in the enterprise architecture process and facilitated executive understanding and support by communicating the enterprise architecture objectives, benefits, progress and ensuring that they were fully integrated with the main development project. Developed the phase 1 technical architecture used by the project. Ensured that the impact of changing requirements fully considered the impact on the technical architecture and ensured that proposed solutions were technically sound and communicated to executive management for approval.
- Nov 99 – Jan 00 **Senior Systems Engineer** for the ADGA Sub-Contract bid preparation with Motorola to provide the new Military Message Handling System (MMHS) for the Canadian Department of National Defence.
- 1997 - 1999 **IS/IT Manager, Project Manager, Technical Architect**, Calgary Detachment, Project Management Office Tactical Command, Control and Communications System (PMO TCCCS: a \$1.4 Billion Major Crown Project involving the replacement of the Canadian Army's field IS/IT capability which includes a dynamic TCP/IP network, telecommunications and static & mobile digital radio) called the Iris communications system. Lead a team of 8 engineers and support personnel in providing engineering support to our Ottawa Office including oversight of contractor systems integration effort (for TCP/IP networking design proving tests) and verification & validation/review of deliverables. As the office manager was responsible for office administration including performance evaluations.
- 1996-1997 **Project Manager, Senior Systems Engineer, Technical Architect** (Ottawa Main Office) PMO TCCCS. With a staff of 7 was responsible for management oversight of contractor engineering effort, for the Iris System development, from a systems perspective (and in particular both internal and external interfaces) and manage the PMO Test Engineering Group. Provided key systems engineering and local IS/IT management advice to senior management. Also managed the oversight of the X-400 messaging application development segment. Member of the implementation planning team for our enterprise collaboration effort. Member of Canadian QIP Team (an international multi-nation engineering effort now called MIP) providing technical architecture support to the team.
- 1993-1996 **IS/IT Director, Project Manager, Technical Architect** (Commanding Officer 731 Communications Squadron) for Canadian Forces Base Shilo. With a staff of 50 provided complete IS/IT services to a large military installation. This included technology planning, network management and maintenance of a metropolitan area network (MAN) comprising 13 LANs and approx 500 networked and standalone workstations, application training and development, computer security services, telecommunications services (SL-1 Switch w/Voice Mail and Auto-attendant, CAT 5 Cabling, 911 radio-wire integration), cable TV services (was managing Director Shilo Cablevision), UHF/VHF radio services and Internet services. Projects included solicitation of requirements from clients and development of the technical architecture to the in-service support of the systems implemented.

1991-1993 **Senior Software Engineer** (Ottawa Main Office) PMO TCCCS. With a team of 4 provided the software engineering oversight for the large military standard (MIL-STD 2167A) software development effort (Iris System).

1990-1991 **IS/IT Manager** (Signal Platoon Commander) for Camp Zioani, United Nations Disengagement Observer Force, Israeli Occupied Syria. With a staff of 30 was responsible for telecommunications, radio and information systems.

1989-1991 **Technical Architect, Project Engineer** (Ottawa Main Office) PMO TCCCS. Prepared segment specification for the communications management application of project request for proposal. Lead bid evaluation teams for communications management application and portable data terminal. Member of IS security architecture team.

1979-1989 Undergraduate Engineering Student (1977-1983), IS/IT Manager & Team Lead/Signals Officer (1984-1987), Postgraduate Engineering Student (1987-1989).

Technical Skills:

Tools/Languages: Sparx Enterprise Architect, Popkin System Architect, UML, Object-Oriented Development, CASL, PalmPilot, Microsoft Office, Microsoft Project, Primavera, DOORS, Config CM (CENTRA 2000), HTML, Java, PERL, SQL, SSI, CGI, PHP Scripts, C++, SmallTalk, Prolog, Ada, Fortran, Motorola Assembler, Visual Basic, C, Basic, dBASE, Clipper, Pascal

Standards etc: IEEE 15288, IEEE 1219, IEEE 12207, IEEE 1471, IEEE 1362, DoDAF v1.0 & v1.5, DND AF v1.0, (Canadian Department of Defence Architecture Framework) UPDM, Zachman Framework, MIL-STD 2167A, TBS EMF, PMI PMBOK

Networking: LAN, MAN, WAN, Banyan Vines, TCP/IP, Routing

Operating Systems: Linux, Windows 2000/XP/NT/98/95/3.1, OS X, UNIX, SAMBA, X Windows, OS/2, DOS

Additional Training/Skills:

DND Architecture Framework Course 3-5 Sep 08; DOORS Training 17 Feb 2005; Popkin System Architect Training including UML and Power User, Popkin & CGI, 4,5,11-14,17-19 May 2004; Config CM (CENTRA 2000) Training, Auto-trol Technology, 5-7 November 2002; Project Management Professional (PMP) Training, Bay3000 Inc., 29-30 September 2002; Continuous Risk Management Course, 30-31 Mar 2000, Center for Information Systems Engineering, Software Engineering Institute (SEI), Carnegie Mellon University; Currently studying for my PMP Certification; Unix and Windows NT Integration Course, March 1999; Object-Oriented Analysis and Design with UML Course, January 1999; Windows NT Server & Workstation Course, August 1998; Software Test Planning, Design and Implementation Course, March 1998; Hands-on Internetworking with TCP/IP Course, March 1998; Introduction to Practical Software Metrics Course, February 1998; Object Oriented Application Development Course, February 1998; C++ Programming Workshop, December 1996; Internet, Firewalls, and Network Vulnerabilities Course, December 1995, Canadian Forces Qualification Defence Software Acquisition (Mil Std 2167a) 1993.

Personal Data

- Functional French language ability and willing to travel when required.
- Security Clearance: CANADIAN SECRET (Level 2).

References: References available upon request.