

ROBIN ST-GELAIS
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System/Technology Architect/Technical Lead

A detailed oriented, analytical IT professional with over twenty years experience in the consulting industry. An effective team player and leader with a strong technical and functional background who is very accepting of new challenges and understands the importance to take ownership and accountability of delivering superior client services.

Core Competencies:

IT Architecture and Data Integration
Coaching & Mentoring
Results Orientation
Innovation and Creativity
Understanding of the Business and IT challenges

Technical Proficiencies

Platforms: Architecture (SOA/J2EE/.NET, Mainframe)
Languages: Java, J2EE, JSP, ASP, VB, Cobol, and more.
Tools: ESB/SOA - JCAPS; Sql Databases (Oracle, MS SQL, DB2); Web/App servers (GlassFish, WebSphere, JRun, IIS, Tomcat)

Certified in “The Open Group’s Architecture Framework” (TOGAF) 9.1 and Information Technology Infrastructure Library (ITIL) v3 (2011)

EXPERIENCE - PROJECTS

BARRINGTON CONSULTING GROUP

2006 - now

Project: Drug Information System (DIS), Nova Scotia Department Health and Wellness [2011-2016]

As **Lead Project Architect**, NS Department of Health; DIS (Drug Information System) project – started in June 2011, multi-streams 20M+ project, completed in 2016;
The DIS project integrates patient’s medication history, whenever the medication is dispensed in the province (pharmacies, hospitals, clinics, etc.)

In his role, Robin is responsible for:

- overall architecture of the DIS solution;
- ensuring that the solution is well integrated within the existing NS EHR (Electronic Health Record) components, and meets the business needs of the organization and complies with Canada Health Infoway (CHI) standards.

Duration: 2011 - 2016

Technology: SOA with JCAPS, Medigent (DeltaWare/Maximus), Oracle, HL7 messaging (v2 and v3)

Project/Client: NS Department Health and Wellness [2010-2011]

As **Technology Architect**, was responsible of the technology Architecture for the following projects at the Department of Health and Wellness:

- Reciprocal Billing PIA; provide technical support to the Privacy Team and participated to the final PIA deliverable for the new billing system's implementation, the Claims Processing System;
- Solution Options for the Electronic Delivery of Transcribed Reports Project to EMR (EMR is the application used by doctors in clinics); initiative to identify options for providing Nightingale on Demand EMR users with seamless electronic access to transcribed reports. In this role, Robin was responsible for all technical aspects of the project, including the collection and analysis of the technical and costing information for the options, providing option recommendations, and the development of the costing and technical components of the final deliverable.
- Surgical Wait Time Initiative (Phase 0 and Phase 1) – As a Technology Architect, Robin was leading the technical portion of the Solution Architecture and participated and validated the technical portion of all other deliverables. The project was to improve access and reduce wait times for surgical services in Nova Scotia

Duration: various 2-3 months average

Project/Client: NS Department Health and Wellness - SHARE project [2007-2010]

As **Lead Project Architect**, SHARE; Electronic Health Record (SHARE) Implementation Project - As a Registries Application/Technology Architect, Robin participated in the Solution Architecture, produced the Detailed Design, lead the Development and participated to the Implementation of two major components of Nova Scotia's Electronic Health Record system (known as SHARE) – the Provider Registry and the Client Registry . The solution architected and implemented included Sun Integration tools (JCAPS), as well as multiple interfaces with many source systems using health care standard HL7 (v2 and v3).

Technology: SOA with JCAPS (5.1), Initiate (IBM), Oracle, HL7 messaging (v2 and v3)

Duration: 2^{1/2} years

Other projects with BCG [2006-2008]

- Application/Technology Architect – SNSMR (Services Nova Scotia and Municipal Relations, Vital Statistics) – Project NRS – The National Routing System is a secure communications network that links together the Vital Statistics Organization's (VSO) of the provinces and territories and federal departments and agencies for the purpose of providing near real-time electronic exchange of event information. Robin roles included confirm/define architecture requirements, messages standards, technical architecture, define and configure application environments. The message exchange was implemented using Oracle B2B Integration Tool.
- Technology Architect – SNSMR – provided various technology architecture expertises. Produced a detailed technical assessment of a commercial software package; this package was offered for purchase to SNSMR to fulfill functions related to the International Fuel Tax Agreement (IFTA). Also produced a research of available tools for analyzing source code and architecture, and evaluation of those tools when performing a code review and assessment of a part of the current implementation of the Mainframe Modernization Project, a project to re-host (to J2EE Architecture) major applications related to Motor Vehicles.
- Analyst-Architect – NSAHO (Nova Scotia Association of Health Organizations) –Web Content Management replacement – Robin responsibilities included definition of requirements, product evaluation criteria, product evaluation scoring, and recommendation for acquisition, and support to implementation with business users training.

- Technology Architect – PEI – Digital Imaging – RIS/PACS Technician Capacity Study – this project is to evaluate the support currently provided to the Digital Imaging (RIS/PACS) systems, in term of workload and workflow. Robin's role included a review of the actual technology (hardware, software, network, processes) in place for Digital Imaging in PEI, identify problems and issues with the current technology and provide recommendation for improvement. Robin was also part of the overall review, to provide recommendation on technology, but also on processes, governance and people.

Fujitsu Consulting - Client Boeing
Project: Estimation Support System (ESS)

2006

As a *System Architect and Team Lead*, part of a remote development project (virtual team, located in Halifax, NS; Quebec City, Qc; and Seattle, Wa), participate to the development of an application to support Boeing Project Managers in the process of estimating and planning projects;

- Translate user requirements into application and technical implementation
- Contact between technical team, Project Manager and Client (Business System Manager)
- Identify and track architectural issues and take the lead on resolving them
- Coordinate technical elements and deliverables of the project, working independently or with project management
- Conduct reviews; provide guidance, and ensure adherence to standards (quality control)
- Develop technical architectures, frameworks and strategies to meet business and application requirements
- Evaluate alternative technology solutions to meet business problems
- Identify information, procedures and decision flows based on functional requirements
- Define detailed plan for the technical design phase
- Design, implement and maintain Oracle Database Objects (Data Model, procedures, etc.)

Technology: WebSphere 5.1 (WSAD), Oracle 10g, J2EE, Hibernate, Struts;

Duration: 10 months

HRM (HALIFAX REGIONAL MUNICIPALITY), Halifax, NS

2004 - 2005

Project: Integrated City/Document Management

(as an employee and as an independent contractor for xwave)

- As a *Systems Analyst*, participate to an overall Enterprise Content Management (ECM) assessment and produce an implementation plan;
- As an *Application Architect*, participate to review of all processes of software development within HRM (Enterprise Architecture). Include lead on the Application Architecture, and the “Tools and Techniques”, a Project Management framework, including template material and project methodology for system development.

Technology: various

Duration: 15 months

FUJITSU CONSULTING**1995 - 2004****Project: Internal Fujitsu, Halifax, NS [2004]**

As a *Technical Architect/Technical Lead*, participated to various short term projects, including:

- Supporting a small installation of Oracle Forms 9i; quality control and supervision of the developer
- Validate and provide input to various RFPs, including Legacy Migration (from Mainframe to NET technology), others

Technology: .NET, J2EE, Oracle Forms, others.

Duration: 3 months

Project: Province of Nova Scotia, Halifax (Service NS and Municipal Relations) [2004]

As a *Technical Architect*, documented, assessed and identified issues on the existing development environment and recommended long-term strategy for future initiatives

- Gathered documentation from existing applications
- Identified issues and concerns from current applications
- Validated comprehension with technical and non-technical people through workshops and interviews
- Identified alternatives, recommended standards and policies for technical architecture based research findings
- Produced and presented the report to mid-management group.

Technology: Web application including ASP-IIS, Oracle 8i, Oracle 9iAS, Forms.

Duration: 3 months

Project: Atlantic Lottery Corporation, Moncton, NB [2002-2003]

As a *Technical Architect*, participated in a large assessment of the opportunities for the lottery corporation to define a Common Business Infrastructure for their strategic business. Completed the System Architecture for a sub-system of that Infrastructure, including the evaluation and integration of a commercial package for the Inventory Management and Distribution system (warehouse)

- Reviewed functional requirements and proposed a technical Architecture to fulfill those requirements; includes Software Architecture, the Technology Infrastructure, Developer Alternatives, Developer Principles and Persistent Information Structure (Data Model)
- Estimated next phase of design and impact on the organization
- Provided recommendations for hardware and software including network, workstations, and peripherals
- Performed a technical evaluation of suggested package, including set up on network and installation of a test lab
- Coordinated activities with the package vendor and reported issues to client
- Managed and supported package database on SQL Server
- Contributed and reviewed other deliverables of the project.

Technology: Client/Server (VB); package, on-line gaming systems. MS SQL Server; Integration.

Duration: 16 months

Project: Boeing Commercial Airplanes (Finance), Seattle, Wa [1999-2002]

As a *Technical Architect and Technical Lead*, participated in the Preliminary Analysis, System Architecture and System Construction of a new web-enabled project

- Defined overall technical architecture, evaluated and recommended products to develop the system and led a team of 2-5 individuals
- Explored and recommended architecture options for data entries including web interface and server options, and data extraction and transfer to Enterprises Server using FTP and VisualBasic
- Developed prototype using commercial package and various web technologies for review, selection and decision by User / Steering committee
- Defined standards and development environment for application server, database and web components
- Supported Developers and reviewed components ensuring overall integrity of architecture during construction phase
- Set up testing, acceptance and production environment and migration activities for Web, App and Database servers
- Acted as translator for technical and non-technical users, functional analyst, system owners, etc.
- Post implementation, provided support to the end users

Technology: MS SQL Server 6.5 and 7.0, Java, Java Applets/Servlets, JSP, JavaScript, VBScript, HTML,ASP, JRUN(J2EE AppsServer), Oracle 9i JDeveloper, Formula 1/e.SpreadSheet Engine (Java classes from Tidestone/Actuate), Visual Basic 6.0, ERWin, Methodology P⁺

Duration: 2 ½ years

As a *System Architect / Function Analyst*, involved in documentation, evaluation and development of various systems in a desktop environment

- Possessed a thorough understanding of the system, evaluated for feasibility of additional functionalities and provided recommendations on re-design and improvements
- Produced functional documents, obtained approval from Users, supervise developers and manage testing activities
- Managed implementation of an Intranet DataWarehouse application including coordination of conversion activities, production schedules and fine tuning activities

Technology: MS SQL Server 6.5 and 7.0, VBScript, HTML, ASP, Visual Basic 6.0, Methodology P⁺, Seagate Crystal Report 7.0

Duration: 9 months

Project: US West Communications, Bellevue, WA [1997-1998]

As a *System Analyst*, participated in conversion of system for client billing and statement inquiries in the Washington area. Also involved in development of new interface client server

- Produced design documents, and obtained approval from Users, programming and testing activities
- Managed validation and support of execution in a production environment

Technology: Large System on Mainframe. IMS and DB2 Database. On-line with IMS-DC, CICS and COBOL. Client Server with NT/WIN95 Desktop, User Interface in Visual-Basic
Duration: 2 years

Project: Department of Licensing, Washington State Gov., Olympia, WA [1995-1997]

As a *System Analyst*, worked both remotely and on-site and was involved in developing a new large-scale information system to manage all information pertaining to drivers and vehicles for the entire State of Washington

- Produced internal design documents and programming, and test unit processes
- Provided on-site support, analyzed and resolved issues related to user acceptance

Technology: Intelligent GUI Work Station with WINDOWS- APS tools (CLIENT-SERVER with DB2 Server on mainframe). Batch work on mainframe, COBOL. Methodology DMR P⁺
Duration: 18 months

KEANE CANADA INC., Quebec, PQ

1991 – 1995

Project: Ministère Environnement et Faune du Québec (Provincial gov.), Quebec, Qc
Project Manager / Maintenance Architect

- Managed a team of three programmers, assigned to the evolution and operation of two large-scale systems distributed throughout the Province with approximately 100 Users
- Received, managed, evaluated and prioritized various requests from Users/Managers
- Controlled the quality of the deliverables produced by team members

Technology: IDMS, COBOL, CICS, DB2, ADS-ON-LINE, IDD, OLM, SDF-II, TSO/ISPF, Micros (PC) C++, Turbo-Vision
Duration: 4 years

PROBEN MANAGEMENT LTD., Montreal / Quebec, PQ

1987 – 1991; 1995

Project: Vidéotron Ltée, Montréal, Qc [1995]

Analyst-Programmer

- Modified and added functionalities to a Client Management System (SGA)
- Provided system support and managed evolution of the application and overall system

Technology: MAINFRAME IBM, Methodology DMR P⁺
Duration: 6 months

Project: Hydro-Québec, Montréal, Qc [1990-1991]

Analyst / Programmer

Member of a large Management Inventory System development project to simplify and reduce the cost of all activities of the Hydro-Quebec warehouse

- Defined physical units and build interactive programs
- Participated in a large environment simulation to test performance of system prior to implementation

Technology: IMS DB/DC, COBOL II, WORKBENCH, ANIMATOR, BTS, IMS VS 86, TSO/ISPF, IBM MAINFRAME AND IBM PC.
Duration: 12 months

Project: Steinberg Ltée, Montréal, Qc [1990]

Participated in the development of new functionalities for an operating system of Steinberg Wholesaler, following the purchase of a new enterprise. Rapidly and efficiently integrated systems from both firms utilizing programming from COBOL and Easytrieve

Technology: IMS BATCH, IBM MAINFRAME, COBOL, TSO/ISPF, CICS

Duration: 4 months

Project: Bell-Canada, Montréal, Qc [1987-1989]***System Specialist***

Worked with Bell Canada on the integration of functionalities to manage a new tax on telecommunications for invoicing large clients. Also worked on a project to convert and migrate certain systems from a DOS to OS operating system

Technology: IBM 4331, IBM 30XX, TSO/ISPF, DOS, ICCF, COBOL, ASSEMBLER

Duration: 18 months

DATA PROCESSING INSTITUTE, Chicoutimi, Qc**1987*****Teacher***

Prepared and taught data processing courses at the collegial level. Assisted students, corrected assignments and administered exams on database concepts, spreadsheets, structured analysis and system documentation subjects

Duration: 7 months

EDUCATION

SHERBROOKE UNIVERSITY, Sherbrooke, PQ**1987*****Bachelor Degree in Information Systems*****CEGEP OF CHICOUTIMI, Chicoutimi, PQ****1981*****Civil Engineering Technology (DEC)*****PROFESSIONAL DEVELOPMENT**

- ITIL Foundation certification v3 (2011)
- The Open Group's Architecture Framework" (TOGAF) 9.1 – certified level
- Macroscopic® ProductivityCentre (formerly P+)
- ORACLE (SQL*Plus PL/SQL, 9iAS, and tools)
- Microsoft/Fujitsu Legacy Migration (to NET) seminar

WORKING LANGUAGES

Spoken: French, English

Written: French, English

TECHNICAL EXPERTISE / SPECIAL SKILLS

Systems/Software

Oracle DB
MS-SQL Server
SQL Tools (Enterprise/QA)
JRUN AppsServer, WebSphere
IIS; Tomcat; Apache
IMS DB/DC; IDMS; CICS
DB2, MySQL

Programming Languages

Java, JSP
JavaServlets, JavaApplets
ASP, HTML, VbScript
JavaScript
IBM Initiate
VisualBasic 6.0
VisualBasic NET, C#
Cobol
WSDL, UDDI, XML
HL7 (v2 and v3)

Utilities/Tools (IDE)

Oracle 9iJDeveloper
ERWin
CrystalReports
APS-Workbench
Various J2EE IDE – WSAD, Eclipse .NET Architecture

Techniques

Macroscopic – P+ (Fujitsu-DMR)
Model View Controller (MVC)
Web Services/SOA
J2EE Architecture