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Introduction

Geoff has over fifteen years of software engineering experience in the Canadian high-technology and petroleum sectors. He has shipped web-based software for geospatial imagery management, managed a 30-person engineering geomatics team for the Mackenzie Gas Project, designed an architecture and lead a team to develop embedded cryptography software, and completed the cross-Canada implementation of oilfield supply management software. He possesses extensive experience in people leadership, software project engineering, project management, and operations management. Geoff's management and leadership experience has been further developed through his service as a Reserve Force officer in the Canadian Armed Forces. His technical focus is on Google Web Toolkit and Google App Engine projects for desktop and mobile computers

Education

B.Sc. Electrical and Computer Engineering, University of Calgary, 1993
MBA Management Information Systems, University of Calgary, 2001
Officers' Professional Military Education, Royal Military College of Canada, 2007 - 2008

Professional Affiliations

Professional Engineer - Association of Professional Engineers, Geologists and Geophysicists of Alberta
Director, Strategy and Implementation – Alberta Geomatics Group
Board Member – Alberta ICT Council

Positions Held

2007 – 2010

Project Engineer, Saskatchewan Geospatial Imagery Collaborative, Precision Geomatics Inc.

1993 – 2009

Reserve Force Officer, Canadian Forces (1993-2009)
Project Engineer, Tailings Management Software, Colt Geomatic Solutions Ltd. (2006 – 2007)
Project Engineer, Mackenzie Gas Project Engineering GIS Team, Colt Geomatic Solutions Ltd. (2005 – 2006)
Sessional Instructor – Operations Management, University of Lethbridge (2001-2008)
Vice-President – Operations, NE2 Corporation (2003-2005)
President, Pocket Connection Ltd. (2000-2003)
Projects Engineer, CE Franklin Ltd. (1997-2000)
Information Systems Engineer, Nova Gas Transmission Ltd. (1993-1997)

Publications and Presentations

“Smartphone GIS”, Alberta Geomatics Group Winter Workshop, 2010

“Cloud Computing for GIS”, Alberta Geomatics Group Fall Workshop, 2009
“A Geographic Content Management System for Pipeline Projects”, International Pipeline Conference, 2008
“Applying Open GIS Standards to Pipeline Alley”, Alberta Geomatics Group Technical Series, May 2007
“Designing a GIS Using CASE Tools”, GeoTec 2007
“Extending the Web Mapping Service to Handheld Devices”, GeoTec 2007
“Large Project Data Management on a Small Project Budget Using Open Source GIS”, Alberta Geomatics Group Technical Series, December 2006
“A Departmental Open Source Pipeline GIS”, Proceedings of the International Pipeline Conference, 2006, ASME
“Open Source Web Mapping for Pipeline Projects”, Geo-Alberta 2006
“Spatial Data Management for Pipeline Projects”, 2006 Calgary User Conference, ESRI

Experience

Precision Geomatics – Project Engineer, Saskatchewan Geospatial Imagery Collaborative

Project Engineer, responsible for bid preparation, project planning and management, architecture, software engineering, and installation of a project to provide a web-based Geographic Information System for managing over 4 TB of geospatial imagery. Installed a server base of open source geomatics software, Apache httpd server, and PostgreSQL. Developed a web mapping client using Google Web Toolkit and the OpenLayers JavaScript mapping control. Provided technical leadership to the client and performed ongoing support and planning activities. Implemented MyLyn / BugZilla for issue tracking, CVS for source management, and Ant for automated build. The application is currently available online for public use at: <http://www.flysask.ca>.

Colt Geomatics – Tailings Management Software

Project Engineer, responsible for bid preparation, business development, and technical delivery of custom tailings management software for a major oil sands operating company. Implemented software engineering processes in requirements analysis, design, implementation and quality management. Acted as primary technical contact for the customer. Provided technical leadership to a six-person team to produce extensions to ESRI ArcGIS software in C# using a .Net and ESRI ArcObjects environment.

Colt Geomatics – Mackenzie Gas Project Engineering GIS

Project Engineer, responsible for managing engineering and environmental data for a \$7-billion natural gas pipeline project. Developed a turnaround strategy to restore client confidence in the department and use data assets to solve crucial engineering and regulatory challenges for the project. Provided people leadership to a team of 30 engineers and technologists. Lead the implementation of software engineering practices for quality control, change management and risk management, and conducted business development activities. Prepared and executed project plans for data management and enterprise software upgrade projects. Presented the project's achievements and technology at regional and international conferences.

NE2 Corporation – E-Cryption

Vice-President – Operations responsible for the design and development of the E-Cryption line of network security products. Prepared and executed project plans to develop cryptography software for Windows and Windows CE. Lead software engineering in a C embedded NDIS driver development project. Implemented software engineering practices in build management and quality control. Participated extensively in sales and marketing activities including customer visits, lead generation and an international telecommunications trade show. Conducted hiring and performance management for a team of six technical professionals.

Canadian Forces – Reserve Force Officer

Employment in a variety of positions of increasing responsibility, including a three-year appointment as Commanding Officer of a unit. Responsible for setting goals, hiring, supervising and evaluating personnel, public relations, risk management, and planning and managing to a budget. Accountable for providing leadership and operations planning to teams. Previous positions include training management and logistics management. Completed a five-course university-level certificate through the Royal Military College of Canada in leadership and ethics.

University of Lethbridge – Sessional Instructor, Operations Management

Preparing and delivering a curriculum in operations management, including strategy, product design and development, managing production, scheduling, and project management using MS-Project.

Honours and Awards

Canadian Forces Decoration
Navy League of Canada Long Service Medal
Navy League of Canada Distinguished Service Award