

Thomas K. Roe

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EDUCATION

University of Saskatchewan - Bachelor of Science in Electrical Engineering (1983) - Distinction

Awards: 1981 Saskatchewan Electrical Association Scholarship
1980 University of Saskatchewan. Undergraduate Scholarship
1979 Saskatchewan High School Provincial Scholarship

TECHNICAL SKILLS

- Oracle Database expertise with Oracle 8/9/10 RDBMS.
- Microsoft SQL Server 2000 Database design and Stored Procedure Programming experience.
- Oracle Designer CASE Tools for database design / documentation / and DDL generation.
- Client / Server development with Oracle Forms, Microsoft Visual Basic, and Oracle Power Objects.
- Oracle PL/SQL stored procedure programming.
- Java development experience with JBuilder, Oracle JDeveloper, Netbeans, IntelliJ IDEA.
- JSP / Struts web application design with Macromedia Dreamweaver, Tomcat, Struts, Oracle iAS, Log4j
- ASP.NET web application design using Visual Studio.NET and IIS.
- XML, XSL, and DTD design and programming using XMLSpy, and MSXML DOM and SAX.
- Windows 3.x/9x/NT/2000/XP solution programming using Visual Basic V3 - 6, Microsoft Access, Visual Basic for Applications (VBA).
- C / C++ language proficiency in DOS, Windows, OS/2, XENIX, UNIX, QNX, and embedded systems.
- Experience with Geographic Information System (GIS) applications using ESRI tools/components, as well as Mapserver.
- Experience with varied Operating Systems, including Windows 2000/XP/Vista, various distributions of Linux, QNX, HP/UX, Unix, OS/2...

CAREER HISTORY

Present to 92/04: **Raptor Technologies Ltd. - Principal / Owner**

Software consulting providing customers with software and systems integration solutions for their PC and Embedded Systems challenges:

Basic Systems Maintenance for Ecosystem Information. BC Ministry of Environment, *Victoria.*
This suite of Fish Inventory Applications, allows for both public and secured access to MOE Fish Inventory databases. The applications are Java/JSP/Struts/WebADE, accessing Oracle DB.

BC Hydro Generation Environmental Database (GenEnvDB)., *ESSA Technologies Ltd, Vancouver*
This ASP.NET intranet web application allows client access to Fish Inventory datasets stored in the

SQL Server database tier. A flexible browser-based georeference search interface allows the user to find and publish datasets using an Excel reporting engine. Involved as a subcontractor, with primary responsibility for database design and Stored Procedure programming.

BC Species and Ecosystem Explorer, B.C. Ministry of Environment

This J2EE web application allows public access to MOE, WLAP, and other ministry web-based resources through searchable access to the Conservation Data Centre's database (<http://a100.gov.bc.ca/pub/eswp/>).

Species Inventory Web Application, B.C. Ministry of Environment

This J2EE web application allows public access to Species Inventory document and dataset resources through searchable access to the B.C. Ministry of Environment Species Inventory (SPI) database (<http://a100.gov.bc.ca/pub/siwe/>).

TEM (Terrestrial Ecosystem Mapping) Verification Tool, B.C. Ministry of Environment

Development of the TEM (Terrestrial Ecosystem Mapping) Verification Tool application. This desktop tool allows vendors and MOE ministry personnel to perform Quality Assurance on delivered TEM or PEM attribute datasets, utilizing a generic rules and validation engine driven by ministry-authored XML configuration files.

Species Inventory(SPI), Ministry of Environment

Client / Server Application development of Species Inventory (SPI) Oracle Database System for the B.C. Ministry of Environment (MOE). SPI enables the collection of wildlife survey data conforming to 22+ different methodologies, providing province wide access to inventory data. Application development was done using Oracle Designer, Oracle Power Objects, and Oracle Forms.

Taxonomic Workshop, Ministry of Environment, Lands, and Parks

Development of Taxonomic Workshop Database Application for MOE. This application provides for the intuitive access and maintenance of a 10,000 species Taxonomic database. The application and data massaging were originally done in MS Access, and then migrated to Oracle database and development tools.

95/12 to 94/09: **Manager - Software Engineering , Spartan Controls Ltd.**

Supervised a team of software engineers responsible for the following:

- Design and implementation of in-house productivity tools, such as MS Access database applications to automate the configuration of SCADA Host applications.
- Providing custom solutions for client data acquisition platforms using OS/2, Windows 3.x/NT, VAX, SCO UNIX operating systems.
- Design of custom C solutions for the Fisher ROC RTU.
- Hardware support for departmental PC's, including PC hardware and software installation and configuration, and network configuration and maintenance.
- Involved in specifying medium and long-term strategic directions in terms of third party software and hardware choices.

LEISURE ACTIVITIES

- Enjoy all manner of outdoor pursuits, including cycling, hiking, telemark skiing, and sea kayaking.