
SOFTWARE ENGINEERING EXPERIENCE

Software Engineering Consulting Synopsis

The Breken Group has over 12 years experience providing Information Technology consulting. The expertise of our consultants include Systems Analysis & Design, Project Management, Beta Testing, and Training. Our staff utilize a wide range of technologies in creating innovative solutions to solve business problems.

Software Engineering Services Offered

- » Systems analysis and design focusing on new technology including Visual Age for Java, Crystal Reports, Oracle, IBM Websphere and the Rational Suite of Products
- » Analysis, design and support of Applications using the Systems Development Life Cycle
- » Project Management of large-scale software engineering projects with multi-faceted teams, applying state-of-the-practice methods, including the Rational Unified Process
- » BPR Consulting providing advice and guidance on innovative practices to facilitate radical re-design of business enterprises
- » Feasibility Analysis conducting comprehensive business case studies as to feasibility and cost-benefits of undertaking major projects
- » Identification of standards, guidelines and improvements to system development processes
- » N-tier, distributed, component-based software engineering
- » Quality assurance consulting
- » Use Case facilitation

Consulting Highlights

For the following projects, our Consultants have been involved in System Analysis and Design, Scope and Requirements Definition, Programming and Project Management.

Human Resources Development Canada – Interactive Training Inventory

This project has been ongoing for over six years, starting with Access then moving to SQL Server and finally to Oracle. This internet based system services approximately 10,000 Training Providers and 200,000 unique users per year.

Maritz: Thompson Lightstone – Automated Market Research Report Generator

Provided automated report generation software application for both customer satisfaction and employee opinion research programs. Report generator used to provide electronic reports to Maritz clients that require high volume, automated, dynamic reports.

*Weetabix - Network
Engineering Project*

Managed communications infrastructure renewal project. Successfully deployed on-time in mission critical manufacturing environment.

*Human Resources
Development Canada –
Online Employer Database*

This project was taken over from another company who were unable to complete it. It has been totally redesigned in Oracle 8i using OO techniques and XML/XSL, Com, Javascript and Visual Basic. This has been a two year long project. This internet based system is used to manage Human Resource information for approximately 14,000 businesses.

*Canada Department of
National Defense
– Project Tracking System*

Implemented a Project Management Program that monitored an Audio Visual Production from conception to completion. The system maintained system production information, contacts, production start up dates, milestones, milestone scheduling and finances.

*Canada Department of
National Defense
- Legacy Data Decision
Support System*

Implemented a Reengineering Project involving the re-write of a major portion of the application for the Department of National Defense. This application was scoped at over 100,000 lines of source code.

*Canada Department of
National Defense
– Legacy System Renewal
Project*

Developed a desktop reporting application. The system was responsible for mining data from legacy systems to facilitate decision support. Mentored customer on use of reporting capabilities, and advised steering committee on N-Tier architectures and future product direction.

*Real Estate On-Line Agent
Directory*

Designed for a web/database solution for real-estate agents. COM, ASP and SQL Server were used to provide real estate agents with an online directory of properties.

*Ontario Federation of Anglers
and Hunters*

This software engineering project was developed in Paradox and manages information, promotional campaigns and membership renewals for 80,000 members of OFAH.

*Human Resources
Development Canada –
Online Job Bank*

This was a 6 month project developed using Microsoft SQL Server to manage online Jobs in the Durham Region.

*Government of Ontario –
Ministry of Natural Resources*

Provided Senior Systems Analyst Services for re-engineering project. Involved in review of existing 2 tier architecture creation of plan to move to n-tier using Visual Age for Java, Websphere and Oracle technologies. Conducted focus groups and provided analysis and system design using Rational Rose and Rational Requisite Pro Tools.

*Catholic District School Board
of Eastern Ontario*

Redesigned and automated a maintenance process to enable geographically distributed schools to manage work orders via the web. Used Metastorm's eWork development tool and Microsoft SQL Server.

*Greater Peterborough Area
Economic Development
Corporation - ePeterborough
Project*

This is a project incorporating all of the Economic Development information in the Peterborough area. Users are able to find and analyze constantly updated information about the Peterborough Labor Market, Demographics and other relevant Economic Information.

*Human Resources
Development Canada –
Online National Occupation
Code Database*

This was a 6 month project written in Oracle using PL/SQL designed to link remotely to the Interactive Training Inventory (ITI) and other HRDC products to provide back end Occupational Codes.

*Ont. Ministry of Food and
Agriculture Correspondence
Tracking*

Designed and programmed a correspondence tracking system using Metastorm's e-work. All letters written into the Ministry are prioritized, categorized and routed to appropriate roles via an automated workflow process.

Current Skillsets

- » Business Process Modeling
- » Object-Oriented Business Engineering
- » Object-Oriented Analysis & Design
- » Object to Relational Mapping
- » Project Management
- » Requirements Engineering – Use Case Analysis
- » Unified Modeling Language

Toolset Experience

- » ASP
- » Borland's Delphi
- » C
- » C++
- » Clipper
- » CORBA
- » Dbase
- » EJB
- » HTML
- » IBM Visual Age for Java
- » JavaScript
- » L/SQL
- » Metastorm e-work
- » Microsoft Internet Information Server
- » Microsoft Office, Access, Project
- » Microsoft Visual Interdev
- » Microsoft Windows NT Server 4.0
- » Oracle 8i
- » Oracle Application Server
- » VBScript
- » Visual Basic
- » VMS
- » Windows NT, 95/98
- » XML
- » Accelio Partner
- » Microsoft Certified Solution Provider
- » Metastorm Partner
- » Oracle Partner
- » Rational Partner

Professional Memberships