

WORK EXPERIENCE

Software Consultant, Cypresslogic Systems, Inc., Vancouver BC

Aug 2000 – present

Consulting services in SharePoint (MOSS 2007), Commerce Server, BizTalk, SQL Server, ASP.NET, Ajax, and Javascript on mid to large scale Enterprise systems. Expertise in providing Business Intelligence for organizations using Service-Oriented Architecture (SOA). In-depth knowledge of the W3C standards such as XML, XSL, SOAP, WSDL, UDDI, etc.

Designed and developed ObjectView - a graphical programming tool that supports Enterprise Application Integration (EAI) by importing and orchestrating Web services into its unique drag and drop environment.

Created Business Plans and Marketing strategies. Wrote reports for IRAP and SR&ED funding. Familiar with all aspects of running a small business. Managed a team of offshore developers and QA. Extensive experience with consulting and a proven track record. Committed and long-term relationships with Clients.

SharePoint ShareFiles: Developed a source code control client on SharePoint document libraries using C# and integrated Bug database template. Familiar with extending SharePoint object model programmatically. Developed Web services to make SharePoint calls available to an external client.

SharePoint Consultant, Willis Energy, Toronto ON

May 2010 – present

SharePoint Workflow for Industrial Energy Efficiency Program: Implementing a framework for Ontario Power Authority (OPA)'s Industrial Energy Efficiency Program using SharePoint 2010 InfoPath, Workflows, Surveys, Document Sets etc. The program involves over 6 composite workflows and several InfoPath forms involving large number of users and SQL Server Report generation.

SharePoint Consultant, Kwantlen University, Surrey BC

Aug 2009 – Feb 2010

SharePoint Workflow for Policies and Procedures: Developed a SharePoint workflow involving over a dozen faculty members for implementing the Policies and Procedures. The workflow creates surveys for students to respond. Upon final approval publishes the policy to their web site.

SharePoint Consultant, Electronic Arts, Burnaby BC

Jun 2009 – present

SharePoint Web parts: Developed web parts for EA's internal Social Networking site. Improved UI using javascript popups. Web 2.0 internal social collaboration platform based on SharePoint. RSS, EA Groups management, workflows, Synced EA Groups with Active Directory mail lists.

SharePoint Consultant, BC Ministry of Finance, Victoria BC

Nov 2008 – Mar 2009

News Release Manage System: Developed a custom SharePoint site for managing and deploying news releases for various Provincial Ministries and the Office of the Premier. Designed and implemented custom Document Libraries, custom Site Templates, Edit Control Blocks and SharePoint Timer Jobs. Interfaced with SQL Server database for storing News Releases. Support for RSS feeds. Integrated Word documents with Microsoft Office automation to set document properties.

SharePoint Consultant, Coast Mountain Bus, Surrey BC

Nov 2008 – Mar 2009

SharePoint Custom Features: Developed custom SharePoint features for defining Search Scopes, Event hooks on Form Libraries to move/hide submitted forms, Event hooks for Email notifications on changes to a list. Migrated 2-farm SharePoint implementation to a 5-farm environment (2 front end Web servers, 1 Index server and 2 clustered SQL server databases). InfoPath templates and forms management.

Commerce Server Development, Cactus Commerce, Gatineau QC

Aug 2008 – Oct 2008

ECommerce site for Hanesbrands Inc.: Implemented load balancing for hanes.com. The site is developed using Microsoft Commerce Server. Fixed bugs and configuration issues to support multiple web servers. Familiar with session management and persistence across web farm.

Software Consultant, Cricket Communications San Diego CA

Jun 2008 – Oct 2008

Mobile phone Inventory Error Reporting: Reporting for Inventory errors in SQL Server database. Resolve errors depending on the error type. Implemented UI to mass update exceptions.

SharePoint Contract Development, Ballard Power Systems, Burnaby BC

Oct 2007 - May 2008

SharePoint portal for Secret Documents Repository: Developed a custom site template that allows only specified user groups to have access to sensitive documents.

- Modified Master page, CAML (ONET.XML, SCHEMA.XML, WEB*.XML) to customize the site template.
- Modified SiteActions menu using security trimmings.
- Created C# ASP.NET custom pages to add/remove/modify document libraries, users and their access rights.
- Unique role assignments set by Project Managers using impersonation.
- Programmatically configured security requirements for users while maintaining their roles in the site hierarchy.
- Implemented a Web part to display site security information.
- Modified STSADM to automate site creation, and add navigation & quick launch links.
- Familiar with MOSS 2007 solution build and deployment.

SharePoint Workflows: Customizable Workflows for IT Change Requests and Cost Estimate Proposals using Windows Workflow Foundation (WWF) and ASP.NET forms.

- User-defined forms that can be easily customized and deployed.
- Isolated communication between SharePoint pages and Workflows using ExternalDataExchange.
- User-configurable states and activities in Sequential Workflows defined within a State Machine.
- Implemented customizable email notifications.
- Workflow persistence and tracking.

Commerce Server 2007 / Ajax Contract, Burntsand, Vancouver, BC

Apr 2007 - Sep 2007

Implemented a distributed POS system for Panago pizza.

- Extended Commerce Server 2007 Starter Site to implement User Profiles, Business Profiles, Catalog System, and Orders System using C#, ASP.NET 2.0 and Ajax toolkit.
- Implemented User management and Store management pages.
- Analyzed the architecture for performance and scalability. Implemented an internal cache and tuned Commerce Server cache to improve performance.
- Redesigned the Orders page to cut down view state, and moved large parts of code to javascript to improve performance.
- Familiar with designing large-scale Enterprise systems with multiple Web servers and Report servers.

Community Server / Ajax Contract, Limeade, Bellevue, WA

Aug 2007 - Feb 2009

Online medical assessment suite to help individual health care and well being developed using C#, ASP.NET and Ajax toolkit over SQL Server 2005. Used Community Server 2007 to provide a mechanism for people to manage and share their health information and interact with their healthcare providers. Familiar with writing stored procedures, caching, and scheduling email notifications. Override Community Server functionality to provide custom email notifications and branding.

XBRL Query Engine Contract, Business Objects, Vancouver, BC

Feb 2005 - Apr 2005

Developed a reporting engine for XBRL (eXtensible Business Reporting Language) data provided by Edgar-Online's IMETRICS Web services. Responsible for driving Web services and integrating data into Business Objects' Data Integrator. Designed a SQL Server database that transposes the XBRL data and can perform queries in multiple dimensions.

Web-based Equipment Scheduler, Wayne State University, Detroit, MI

Jul 2003 - Oct 2003

Designed and developed a C#/ASP.NET web application with SQL Server 2000 as database used for scheduling equipment in the Smart Sensors and Integrated Microsystems (SSIM) Clean Room.

Contract Software Development, enolij, Inc., Seattle, WA

Aug 2000 - Mar 2001

Designed and developed Xerpts - a Personal Information Banking tool that allows users to drag and drop information from various sources such as Internet Browser, Word Processor etc. It lets the user or group of users to easily store, organize and share information. The information can then be synchronized with an online database. The following technologies were used: Visual C++ 6.1, MFC, MAPI, ADODB to connect to an MS Access database. Microsoft IIS 4.0 Web Server, HTML, ASP, ODBC, and database synchronization using ISAPI Filters, Extension DLLs and COM objects.

Software Developer, Hydrogenics Test Systems, Burnaby, BC

Sep 2002 - Mar 2007

Designed and developed HMI / SCADA systems for testing fuel cell stacks.

HyWARE PLC: PLC based SCADA system using Siemens PLC S7-300. Implemented all device drivers, Process Control algorithms, and logging engine onto Siemens Programmable Logic Controllers (PLCs) to support platform stability and long term testing.

- Siemens Step7 for programming the PLC using STL (Statement List) and Ladder Logic. Familiar with Data Blocks (DBs), Function Blocks (FBs), Function Calls (FCs) and User Defined Types (UDTs).
- Used SIMATIC NET Step 7 API and TCP for communicating with PLC. Implemented routines such as PIDs, Pressure Lock and Crossover logic for multiple Mass Flow Controllers in STL and Ladder Logic.
- Wrote OPC (OLE for Process Control) Client in C++ for PLC to LabVIEW GUI communication.
- Mapped the existing LabVIEW system to work with Siemens PLCs using C++ Memory Mapped Files and Virtual Memory.
- Support for multiple applications to share memory and to read/write tag values.

HyWARE II: Used LabVIEW for GUI and C++ for Device drivers. Experienced with programming communication protocols such as RS-232, RS-485, Ethernet, Modbus, and Profibus.

FCAnalytics: Visual Studio .NET for Client and Execution Engine. Used .NET Remoting for connecting multiple clients to multiple servers. VB6 scripts. Used .NET scripts for Just-in-Time compile and debug. Wrote the interfaces for handling Alarms and devices.

Tools: Wrote the following tools in C# for Device Simulation, Testing, Configuration, and Data Logging:

- DataExplorer: Wrote a charting application in C#. Filters and charts data generated by the Test Stations. Polarization plots for voltage and current.
- Logging: Implemented Logging of over 500 tags at log rates of 100ms.
- ConfigTool: Wrote a C# application to create and manage files for configuring tags, alarms, PID and other parameters on the Test Station and upload them to PLC.
- HyAL: HyWARE Automation Language - A simple script based interface to read and set tags on the Test Station. Supports runtime tracing and debugging.

Vice-President of Engineering, Braintech, North Vancouver, BC

Apr 1998 - Aug 2000

Managed a team of Software Developers, QA and Product Managers.

E-Chips - Organizes and customizes data for Internet.

Feb 2000 - Aug 2000

E-chips is a multimedia data package that uses Java Applets and Java Servlets. It is a convenient, user-friendly and customizable way of sharing and organizing information. Main features include: log-in capabilities, chat server, upload and download of multimedia data, sharing of data using e-mail and a host of other features.

ODYSEE - Drag and Drop Development Environment for Vision systems.

Apr 1998 - Feb 2000

ODYSEE Development Studio is a component-based development environment that allows for the rapid designing, testing and construction of PC based Machine Vision applications.

- Ability to create Graphical User Interface (GUI) with a rich selection of controls.
- Open-architecture that lets the user incorporate custom operations.

Worked on various projects in Microsoft including Internet Explorer and Visual SourceSafe. The following is a brief description of the projects.

Spice – 3D Web authoring tool.

Nov 1997 – Mar 1998

Spice is a 3D editing environment designed to deliver 3D objects and 3D animation to web sites (using Microsoft DirectX). Implemented tear-off tabs, 3-D list view controls and overall User Interface.

DirectAnimation – Sprite Control component of Microsoft's DirectX media.

Apr 1997 – Nov 1997

DirectAnimation provides rich animation of Web pages and strong integration with Dynamic HTML.

Developed sprite animation control. Play, pause, seek, stop of sprite images. Support for frame-by-frame control over animation. Firing of events using frame markers and time markers. (Shipped with IE 4.0).

Zenith - 3D Web authoring tool.

Dec 1996 – Apr 1997

Used 3D objects provided by Direct3D extensions to Java to author web sites. Provided user-interface to manipulate 3D objects. Responsible for hosting the application in Visual Developer Studio.

Media Producer - Multimedia & Web authoring tool.

Jun 1996 – Dec 1996

Delivers multimedia content such as audio, video, text and animation to CD and Web pages. Integrated ActiveMovie's OLE/COM interface for video. Import of image objects and OLE automation.

Microsoft Picture It! - Digital imaging tool.

Aug 1995 - Apr 1996

Digital imaging tool uses New Image Format (NIF) to process image compositions. NIF images are stored as OLE structured storage and save multiple resolutions of an image for an improved performance. They also store images in tiles thereby reducing the memory requirements.

Microsoft Visual SourceSafe 4.0 – Source code control system.

Feb 1995 – Aug 1995

This is a project-oriented version control application for team software development. Visual SourceSafe tracks changes to files and stores the changes so that files, such as code modules, can easily and economically reused.

Responsible for implementing the following:

SourceSafe Administrator: This works similar to User Manager (MUSRMgr.EXE) of Windows NT.

- o Adds/deletes/edits users, maintains passwords and sets proper rights for each individual project.
- o Drag and drop of files from File Manager to SourceSafe projects. This operation will add new files to a project. Or if the files are checked out, it will check-in.
- o Drag and drop of files and projects within SourceSafe to facilitate sharing/moving/branching.
- o Auto scrolling of project view during drag-and-drop.

Worked with other team members to implement the following:

- o Overall functionality of the application (toolbars, list views etc.).
- o Project tree browser (like the one in Explorer of Windows 95).
- o Column Listbox representing the files and their properties.

Written in MFC for both 16-bit and 32-bit Windows. SourceSafe Version 5: Implemented OLE drag and drop to share files and projects in between 2 SourceSafe apps. All drag and drop from Explorer using OLE.

Significant contribution in the design and development of Paradigm Plus CASE tool.

Paradigm Plus supports software development with analysis, design and code generation of C, C++, Ada, and other languages using object-oriented methodologies (**Rumbaugh/OMT, Booch/OOD, Coad-Yourdon/SASD, Schlaer-Mellor, EVB and FUSION**). This product is also marketed as Object Team by Cadre Technologies. The program is developed using Extended Virtual Toolkit (XVT) and Raima Data Manager for multiple platforms such as UNIX/X/Motif/Openlook, DOS/Windows, and OS2/PM.

Torque Monitoring System: Project leader of PC based automation for real-time monitoring of pipe coupling in oil industry. Directly responsible for system design, functional and technical analysis, specifications, user interface, report layout, and programming A/D, D/A, multiplexers, sample/holds.

Developed a Simulator for Antenna System on the Space Station using C Language Integrated Production Systems (CLIPS) as a research project for NASA.

Ported SPARC/Openlook programs to run under X windows in AIX.

EDUCATION, RESEARCH AND SKILLS

EDUCATION	M.S. Computer Science Jan 1988 - Aug 1990 University of Houston - Clear Lake, TX. P.G. Diploma, Artificial Intelligence and Robotics Jul 1987 – Dec 1987 University of Hyderabad, India. B.S. Electronics and Communications Engineering Graduated in July 1987 Osmania University, Hyderabad, India.
ACADEMIC HIGHLIGHTS	Advanced Operating Systems Artificial Intelligence Database Management Data Communication Systems Computer Vision Object Oriented Systems Analysis Object Oriented Modeling and Design Computer Graphics Robotics and Intelligent Systems Distributed Database Systems Theory of Information & Coding Pattern Recognition, Image Processing Software Design & Specifications Software Project Management
PROJECTS	Developed a utility to facilitate communication between a Windows application and DOS application running in the enhanced 386 mode of Microsoft Windows using DOS Protected Mode Interface (DPMI). Developed a graphics package for representing 2D and 3D objects with added capabilities for transformation, segmentation, windowing, clipping, shading and curve approximations. Designed and implemented an Expert System for tracking and managing spurious industrial chemical spills using CLIPS (C Language Integrated Production System) Expert System. Generic packages for managing linked lists, dynamic arrays, and for generating user interfaces such as menus, dialogs, pop-up help windows, chart/graph displays, parsers, etc. Code analysis utility to parse C code and build a functional model to graphically represent the calling structure. Programming of Asynchronous ports to communicate with another PC. Circuit design and manufacture of Switching Mode Power Supply for computer terminals. Developed a C++ application demonstrating the use of object-oriented methodologies to represent an Intensive Care Unit. Developed a utility for decoding and display of graphics files in PCX format.
RESEARCH REPORTS	Systems Engineering and Integration, TMS Performance Analysis – Summary paper on the Torque Monitoring System for the Pipe-Coupling process. Implementation of Object-Oriented Paradigm-a study about using CASE tools in Software Engineering. Analysis of safety requirements for Mission and Safety Critical (MASC) systems.
SKILLS	Languages: C#, C, C++, Java, Javascript, STL, SQL, LabVIEW, Ada, LISP, PROLOG, Pascal. API: .NET Framework, SQL. Web: ASP.NET, Ajax, Web Services, XML, XSL, SOAP, WSDL, XBRL, CAML, XAML. Systems: All Microsoft Windows, Servers, MS-DOS, UNIX, AIX, and VAX/VMS. Servers: SharePoint 2010, SharePoint 2007, Commerce Server 2007, BizTalk 2004, IIS, Apache AXIS. Databases: SQL Server 2000, 2005 & 2008, MySQL 4.1. Hardware: PC, PLC, FieldBus, Ethernet, Instrumentation Cards.
REFERENCES	References and further information available on request.