

Name: *Ataa A. Elganayni.*

Address: *507 Outlook Pl. Victoria, BC V9C3R9*

Phone: *(604) 649 5813*

Emails: ataa@telus.net - ataa@cppsoftware.ca

My Home: <http://www.cppsoftware.ca/>

Achievements

- Lead the simulator and backend team of Jubilee line of London Underground control system.
- Write the Software and Hardware technical specification of Bergen Street project for New York underground.
- Train and assist the backend development team of Bergen Street project for New York underground.
- Design and implement scalable, highly available backend services and ASP.NET front end for Windows Media at Microsoft.
- Design and implement Network-enabled OS Imaging and Deployment solution for Windows Media at Microsoft.

Programming Skills

- Operating Systems: Windows, OS X and also familiar with Sun OS.
- Specialized in C and C++ and C++/CLI programming.
- .NET Framework using C#, Managed extension for C++ and C++/CLI.
- ASP.NET
- Java.
- XML web services.
- MSMQ
- SQL Server 2000 and 2005.
- ODBC, DAO, DAO SDK and OLE DB.
- Embedded software development for Windows CE.
- Smart Card, mobile and handheld PC programming using windows CE.
- COM, DCOM, COM+ and ATL.
- MFC.
- Project management.

Experience

C++ and Windows Software, May 2006 to Present

Since May 2006, I have been developing libraries and applications as well as ASP.NET websites as part of long-term or short-term contracts. I worked for Intuit Canada in the QuickBooks team and, most recently, I've worked on the mealenders website and SQL Server backend (www.mealenders.com) for MCM Studios at North Alberta Institute of Technology (NAIT.) I use different tools and technologies, including C#, C++, C++/CLI and perform on windows platform.

Software Engineer, Havok Sep. 2004 to May 2006

As part of Havok's development team, I'm responsible for the architecture and implementation of Havok's middle-tier SDK, which provides .NET-enabled clients with robust, scalable and high performance access to Havok's physics and animation library. In addition to the technical role, I, as the feature owner of the SDK, manage the project's schedule to ensure implementation on timely manner. Technologies used include C++, C++/CLI, .NET framework 2.0, C#, Windows XP, Windows Server 2003, XML and Microsoft Project as a project management tool.

Software Engineer, Microsoft (contract), Sep. 2003 to Sep. 2004

As a Software Engineer in the Windows Media team, I'm responsible for the design and implementation of backend components and services as well as front end ASP.NET applications that are part of Windows Media's large-scale backend. I, also, coordinate with other teams and the PM to ensure timely implementation that meets the company standard. I conduct design and code reviews and implement development-time unit testing. Following are three of my projects:

1. Design and implement pipeline applications monitoring and the associated ASP .NET front end for Windows Media backend system. The idea is to enable real time monitoring of different jobs running on the back end and database servers. The monitoring services are part of the back end architecture and designed to meet the scalability and robustness needs of day-to-day operations. Among the tools used are windows server 2003, C#, XML web services, MSMQ and SQL server 2000.
2. Design and implement server-side libraries and client tools to automate Windows 2003 Server imaging and deployment in a networked, distributed environment. The objective of the automation process is to enable bare system (bare-metal) deployment and configuration and be able to deploy and configure servers remotely and consistently, especially in mass-deployment scenarios. I also conduct R&D, implement prototypes and write design documents. Tools and technologies used include C++, C#, Windows Server 2003, Win32, WMI, XML, SQL Server, OLEDB, Cryptography, Windows Forms, .NET Framework and .NET Remoting and Automated Deployment Services.
3. Design and implement Application Deployment tool to deploy application bits to multiple servers in distributed environments. This tool has become the standard in deploying Windows Media applications as well as IPAKs, Windows Patches and other application bits. It uses XML configuration to generate scripts "on-the-fly" then run it on remote servers.

C++ & Windows Software - Self-Employed

Since May 2002, I have been developing tools and libraries for developers and working on contract basis.

Alcatel Canada (www.alcatel.ca): Called upon by Bergen Street project team of New York underground to assist and train the backend development team. The backend was composed of a SQL Server database and core components implemented in C++, MFC, ATL and MTS. A Data Access Layer developed using ADO was the main interface between the core components and SQL database. My role was to work with the team in the implementation and integration of the core components, the data access layer and the backend database. I also conducted C++ and COM training.

Software Analyst, Alcatel Canada, July 2000 to April 2002.

As a member of a Real-Time Train Control System team, my duties and responsibilities were as following:

1. As the team leader of the data and simulator team, I planned the team's task schedule to ensure implementation on a timely manner and closely coordinated with other teams to ensure seamless integration of different parts of the system.
2. Enhance, debug and add features to the backend and business logic of London Underground control system.
3. Enhance debug and add features to the simulator of London Underground control system.
4. Participate in the software specification of Bergen Street project of New York Underground.
5. Conducting R&D and risk assessment prior to changing critical parts of the system. R&D also included implementing prototypes, design documents, participating in test plans and conducting presentations if necessary.

The main platform of Alcatel control systems is Windows NT. Among the tools and technologies are C/C++, Perl, SQL server, COM, MTS, Visual Studio 6 and PVCS.

Software Engineer, Onyx Software (contract), Feb. 2000 to July 2000.

As part of the Infrastructure R&D group, I was responsible for the research, analysis and development of middle tier components. The main goals were:

1. To conduct the necessary R&D for the requested feature. This included implementing a prototype if necessary.
2. To design and develop C++ COM components and Win32 DLLs that serve as an API for other middle tier components.
3. To assess and verify the technical feasibility of the components and determine the requirements to seamlessly integrate such API in the middle tier.
4. To ensure that the new component doesn't affect the performance of the caller by conforming to the performance requirements set by the feature team and the QA team.
5. To ensure that the component doesn't affect the overall robustness of the middle tier by assessing, documenting and fine-tuning the behavior in case of error and/or failure.

6. To implement Benchmark, if necessary, to test the performance of the component before handing over to QA.
7. To participate in documentation process and work closely with the documentation team.

Tools and technologies used include COM, ATL, C++, MFC, Visual Studio 6.0, Visual Source Safe and Rational Rose. Windows NT and 2000 were the main platforms.

Instructor, PrimeTech Institute, June 1999 to Jan. 2000.

The main responsibility is to prepare and teach C, C++, MFC and Data Structure.

Software Engineer, Alstom, Nov. 1997 to Jan. 1999.

As part of 3-tier Client/Server application team, I was working on porting and redesigning of distributed business application. The system was originally developed in COBOL on UNIX platform. My responsibilities were to redesign and port the system to Oracle Backend and C++ middle-tier and front end on Windows NT platform. I was leading the front-end and middle-tier team and coordinating closely with the backend team. I also worked on the analysis and design of other large-scale systems, including software and hardware specifications.

Education

- Two years diploma in Computer Science, American University in Cairo, 1994.
- Marine Engineering degree, Arab Maritime Academy, 1990.
- I also attended selected Mathematics and Computer Science courses at University of Alberta and University of Victoria in 2007 and 2008.
- UML course at Rational.
- Microsoft certified SQL Server 2000 course.