

Robert McCartney
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SKILLS SUMMARY

Application development with C# and Visual Basic .NET, Visual Basic (including VBScript, VBA and ASP), ADO, SQL, T-SQL, COM/COM+, Windows XP/2000, Windows Mobile (CE), Microsoft Office, C, C++ (including Managed C++, Win32, MFC, CORBA, MPI), Java (including Servlets and J2ME), HTML, XHTML, XML, XSL, CSS, JavaScript, Perl, AIX UNIX, Solaris/SUNOS, Red Hat Linux, Mac OS, Oracle (including PL/SQL), WebSphere, Apache, Microsoft IIS, Tivoli (systems management), Lotus Notes, Adobe Photoshop, Macromedia Dreamweaver and Macromedia Flash, Hardware support for IBM and Macintosh PCs and IBM xSeries Servers.

PROFESSIONAL EXPERIENCE

- **Noregon Systems, Winston Salem, NC**
Software Engineer – 2004 to Present

Responsibilities include assisting with requirements, design, estimates, implementation, and maintenance of large software projects for the transportation industry.

- Visual C#, Visual Basic.NET, Visual Basic 6 and Visual C++, SQL Server/MSDE programming.
- Assisted in design, estimation, and development of an HTTP client system using VB.Net for managing engine calibration information. This included SQL database design, interfacing with an existing server application, business logic to support 5 product families, expiration of calibration information, and generating vehicle information reports each time a calibration is applied. The application was completed under budget. The engine manufacturer has increased the scope of their deployment as a result of the positive response of the application.
- Assisted in design, estimation, and development of a diagnostic service tool using Visual C# for a major engine manufacturer including the use of SAE standards such as J1939 and J1587 and TMC standards such as RP1210A. Primary responsibility was implementing a tool for using pre-designed diagnostic instrument layouts to view live or recorded vehicle data. The tool ran both via web browser and as a standalone application.
- Performed change requests, updates to requirements and other lifecycle development tasks on a wide variety of vehicle diagnostic applications.
- Acted as technical lead for all projects relating to one of our largest customers, including maintenance of source control, installations and performing code reviews.

- **Live Cargo, Inc. Greensboro, NC**
Contract Developer – 2003 to 2004

Responsibilities included assisting with design, estimates, and implementation of a web-based (HTTP) file sharing application. The application included complex topics such as data encryption, socket encryption (using SSL), a high level of error correction and file synchronization, and was implemented using Java J2SE.

- **Wake Forest University, Winston Salem, NC**
Software Engineer – 2001 to 2004

Responsibilities include assisting with requirements, design, estimates, and implementation of software for classroom use, and evaluation of 3rd party products for campus use.

- Visual C#, Visual Basic .NET, Visual C++ and Visual Basic 6 programming for Windows 98, 2000, XP and Windows Mobile / Windows CE.
- Ported a commercial classroom management software package from PalmOS to PocketPC/Windows Mobile using Visual C++ for an external vendor. The software provided test-taking capabilities, messaging, and other services to students with connected PDAs.
- Designed and developed software using Visual C++ to provide automated configuration of over 3000 laptop computers annually. The software preconfigured network services including file and printer sharing, electronic mail, and security settings for the campus network. Performed and presented extensive research on Windows security settings and services in conjunction with the application.
- Designed and developed software using VB.Net to provide broadcast instant messaging between student groups. The software was deployed on both laptops and PDAs.
- Routinely performed work estimates and status reports of ongoing projects for my team.
- Performed research on current and upcoming technologies and reported findings and recommendations to members of the staff, faculty, and the head of Information Systems.
- Acted as an advanced support resource for Information Systems' student programs department.
- Managed 1-3 student programmers per semester.

- **Wake Forest University, Winston Salem, NC**
Systems Administrator – 1997 to 2001

Responsibilities include assisting with management of a large academic computing network including electronic mail, file, and printing services.

- Managed a portion of the campus-wide Windows network (approximately 6000 users).
- Managed two Lotus Notes networks on AIX and Windows including application services and email routing.
- Deployed an admissions application using IBM WebSphere. Provided support between IBM Global Services and local staff. Performed server load testing, and devised backup and restore schemes.
- Deployed university budget applications using Lotus Notes 4. Worked closely with an outside contractor and provided support to both the developers and accounting staff.

- Deployed a learning content management application using the first Linux servers in the Enterprise. Provided systems support and technical evaluations to a committee charged with choosing between multiple vendors. Maintained a high level of uptime and assisted users in moving materials from an older system. Developed a maintenance plan and developed software to support password synchronization between existing systems and the new product.
 - Developed a web-based voting system using Perl on AIX/UNIX for student elections that enforced a "one student, one vote" policy, provided run-off support, candidate write-ins, and a visual reporting system with a great deal of transparency for student government staff while maintaining an appropriate level of privacy for users. Designed, implemented and deployed the system in under 5 days.
 - Managed 1-3 student programmers per semester.
- **Wake Forest University, Winston Salem, NC**
Information Technology Center Coordinator – 1995 to 1997

Responsibilities included teaching computer use to faculty, staff, and students and managing a computer lab and media library.

- Developed training documentation for Lotus Notes 4, Microsoft Office, and internet use.
- Gave classes to faculty, staff and students in Microsoft Office, internet use, and Lotus Notes 4.
- Performed individual instruction in multimedia applications such as Macromedia Dreamweaver and Adobe Photoshop.
- Managed up to 15 student assistants per semester.

CERTIFICATIONS/TECHNICAL EDUCATION

Microsoft Certified Application Developer for Microsoft.NET (MCAD):

Developing and Implementing Windows®-based Applications with Microsoft® Visual C#™ .NET and Microsoft® Visual Studio® .NET

Developing and Implementing Web Applications with Microsoft® Visual C#™ .NET and Microsoft® Visual Studio® .NET

Developing XML Web Services and Server Components with Microsoft® Visual C#™ .NET and the Microsoft® .NET framework

EDUCATION

University of North Carolina at Greensboro, Greensboro, NC
Master of Science, Computer Science completed December 2002
UPE Honor Society member (GPA 3.8)

Furman University, Greenville, SC
Bachelor of Arts, Drama completed May 1994

Mercersburg Academy, Mercersburg, PA

REFERENCES AVAILABLE UPON REQUEST