

# Mark A. Sibert

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## SUMMARY

Senior level software engineer with excellent team leadership and project management skills. Extensive experience in all aspects of the software development life cycle. Highly motivated, efficient, creative, and very detail-oriented with over twenty years of object-oriented design and development experience using .Net, Java, and Visual C++/MFC. Specialties include user interface design and development, network communication programming, and embedded programming for resource-constrained environments.

## SKILLS

- Java (including AWT, JFC/Swing, Eclipse/SWT/PDE/EMF, EJB.)
- C, C++, C# (including .NET 2.0, MFC, COM, ActiveX, Rogue Wave, Syncfusion, Dundas, ICreate, Aspose)
- OSGi, Equinox, RFID.
- Perl, Smalltalk, Pascal, 80x86 Assembler, Visual BASIC, SQL, JDBC, UML, XML, HTML, JavaScript, AJAX, VBScript, TCP/IP, WAP.
- Accomplished team leader with project management expertise. (Certified “Level 1” IBM Project Manager.) Experienced in leading and collaborating with both local and remote teams located across the world.
- Extensive experience in designing and developing mission-critical internet/intranet applications and creating innovative user interfaces. UML modeling experience with Rational XDE and Rational Software Architect.
- Knowledgeable in product translation/globalization, accessibility/ADA compliance, requirements analysis, user-centered design, usability testing.
- Skilled in technical analysis of stock market data and developing trading systems.
- Familiar with knowledge-based systems, distributed computing, performance testing and analysis, 2-D graphics/animation.
- Experience working with intellectual property lawyers to create/file software patents.

## EXPERIENCE

### Senior Architect / Program Manager

December 2007 – present

NetApp, Inc. – Research Triangle Park, NC

- Work on NetApp Synergy – a .NET-based suite of tools, written in C# and VB. It also uses 3<sup>rd</sup>-party libraries from Syncfusion, Dundas, ICreate, and Aspose. Much attention was paid to the user interface to make it as easy as possible for a wide variety of users. Synergy has quickly become a critical application for the company’s success and continues to receive a lot of attention from executive management.
  - ◆ Lead architect & developer for the Synergy Framework. This framework allows for the dynamic discovery and execution of plugins. Other groups can simply write to the plugin API to create new tools for inclusion within the suite.
  - ◆ Write plugin API documentation and tutorials.
  - ◆ Teach workshops for plugin development.
  - ◆ Write plugins for inclusion within the suite.
  - ◆ Determine content and schedule for new releases of the product.
  - ◆ Manage contract developers working on the project.
  - ◆ Work on joint efforts with other organizations within the company that are located across the United States and world.
- Work on RackAdvisor – a web-based application, written in Perl.
- Technical resource for less-experienced developers.
- Use: Visual Studio 2005/2008, .NET, Perl, XML, Syncfusion Essential Studio 6.1, Dundas Charts/Gauges, ICreate Buttons & Bars, Aspose Words/Pdf/Slides, Subversion, Trac, Windows XP/Vista/7.

**EXPERIENCE  
(continued)****Senior Software Engineer /  
Director of Information Technology**

September 2007 – December 2007

HaBatte USA – Raleigh, NC / Virginia Beach, VA / Benoni, South Africa

Solely responsible for all technology issues for a small startup company. The company's mission was to produce mining equipment and operate mines in South Africa. The company unfortunately ran out of startup capital and was unable to acquire additional funding. During my time at the company, I had a wide range of responsibilities, including:

- Designed an embedded hardware/software solution for the control & monitoring of ore processing equipment in the mining industry.
- Created and maintained the company website, using AJAX, JavaScript, HTML, XML.
- Set up VOIP to communicate between offices in the USA and South Africa
- Bought and configured computers and other electronic equipment
- Trained staff on the use of computers and various software packages

As one of the company directors, I was also involved in decisions regarding the company's strategy and operations. This included work on contracts, correspondence with other companies and government agencies, and determining which projects to pursue.

**Advisory Software Engineer**

January 1994 – September 2007

IBM Corporation – Research Triangle Park, North Carolina

**Project: “RFID Data Capture” Development**

- Wrote embedded code to control RFID readers and collect data for processing. The product was one piece of a solution that was used in retail and manufacturing environments. The code was written in Java and intended to run on resource-constrained devices. (OSGi-min)
- Wrote development tools, which were used by customers to modify the product to suit their own needs. The tools were Eclipse plugins and made heavy use of SWT.
- Worked on the messaging subsystem that allowed various components in the product to communicate via a publish/subscribe mechanism. (Java/OSGi) Also wrote tools to allow remote monitoring of the messaging system for debugging purposes. (SWT)
- Helped create project plans and assign work items to other developers.
- Worked with other development and test organizations located around the world. Sites included Germany, United Kingdom, India, and China.
- Used: OSGi, Java, J9, Eclipse, Equinox, SWT, Windows, Linux, CVS, CMVC, MicroBroker, SAT

**Project: “Rational Performance Tester” Development**

- Lead developer for “Schedule Editor” feature of the Performance Tester project, an Eclipse editor plugin with an extensive user interface. UI used Eclipse/SWT. Model code used EMF and was designed with Rational Software Architect.
- Consulted with customers and internal users to obtain new requirements and requests for improving the entire Rational Performance Tester project.
- Worked with other teams to ensure interoperability between the feature areas. Gave input on other designs, reviewed code, and mentored less experienced developers.
- Interacted closely and fostered a collaborative environment between the test and development teams. Was recognized for the positive effect this had on the project.
- Lead effort to globalize the product and worked with the translation centers.
- Designed and monitored usability tests, and created plans to address problem areas.
- Educated other developers in User Centered Design concepts and practices.
- Used: Java, Eclipse, SWT, EMF, Rational XDE, Rational Software Architect, Rational ClearCase, Rational ClearQuest, Windows XP, Red Hat Linux, XML, UML, RUP.

## EXPERIENCE (continued)

### Project: “IBM Consumer Wallet” Development

- Designed and developed “Shopping Assistant” functionality for an electronic wallet program. Program was written in Visual C++/MFC. Features included custom user interface controls, integration (using COM and DDE) with Internet Explorer and Netscape Navigator, and extreme ease of use. Several patents were filed from this work effort.
- Redesigned other aspects of the user interface to enhance ease of use.
- Prepared the Consumer Wallet product for globalization.
- Designed and developed client-side ActiveX code for a server-based wallet.
  - ◆ Unlike the standalone Consumer Wallet, this product was designed to run in a browser and relied on server-side code. It consisted of several ActiveX controls, some HTML, and some JavaScript code to integrate the controls.
  - ◆ The target platform was Windows running IE 4.x and later.
  - ◆ Project was also re-implemented in C#/.NET as a proof of concept.
- Used: Microsoft Visual C++, MFC, C#, .NET, ActiveX, COM, Windows 2000, IBM CMVC, BoundsChecker, Purify, TrueTime, TrueCoverage., HTML, JavaScript, WAP.

### Project: IBM Communications Suite, IBM TCP/IP for Windows

- Utilized project management skills as team leader for several major product releases.
  - ◆ Managed development teams to meet tight schedules on time with high quality.
  - ◆ Worked with test, marketing, human factors, and support teams.
  - ◆ Worked with other development groups that contributed to our product.
- Designed and developed many DOS and Windows applications, including a “LaunchBar” application for the entire suite, NewsReader, Dial-up Connection Manager, FTP, LPR, Archie, FTPD, LPD, and ping. Used Java, Visual C++/MFC and Rogue Wave Objective Toolkit.
- Used: Microsoft Visual C++, MFC, C#, .NET, ActiveX, COM, Java, AWT, Swing, IBM CMVC, PVCS, Windows 2000/NT4/NT3/3.1/3.0, BoundsChecker, Soft-ICE, Rogue Wave Objective Toolkit, WinSock, BSD sockets, MS-DOS, PC-DOS, Microsoft Project.

### Senior Software Architect / Chief Technology Officer

December 1998 – February 2002

ArchiTECH Information Systems, Inc. – Durham, North Carolina

- Co-founded ArchiTECH Information Systems, an IT consulting company.
- Designed and developed NovelList - a Windows application for searching fiction titles. The program was written in Visual C++ and utilized many custom controls. It also used Rogue Wave Objective Toolkit and Rogue Wave Objective Grid.
- Met with customers to discuss designs for new features and report project status.
- Managed other programmers working on projects for customers.
- Designed a distributed architecture for networked PalmPilot applications.
- Wrote a parser to convert RTF files into HTML for use in an HTML editor project.
- Designed and developed software (in Java) to download, parse, and analyze end-of-day price data for a stock market trading system.
- Used: Visual C++, MFC, Rogue Wave Objective Toolkit/Grid, Java, SQL, JDBC, Windows 2000/NT4/3.1, SourceSafe, BoundsChecker, Microsoft Project.

### Computer Programmer / Systems Designer

January 1993 - December 1993

MBA Placement Office, Michigan State University

- Designed and developed an online bidding and scheduling system for student interviews. This system was a protected-mode DOS application, written in C++.
- Lead developer for a team of programmers working on the follow-on release.
- Used: Visual C++, MS-DOS, Windows 3.1, Phar-Lap DOS Extender, Banyan VINES

**EXPERIENCE (continued)**      **Co-op / Pre-professional Programmer**      June 1992 - December 1992  
 DOS TCP/IP Development  
 IBM Corporation – Research Triangle Park, North Carolina

- Developed TCP/IP applications for DOS and Windows in C and C++.
- Assisted customer support team in diagnosing customer problems.
- Used: Visual C++, MS-DOS, PC-DOS, Windows 3.0, BoundsChecker, Soft-ICE.

**INVENTIONS**

- Method and system for selecting a target window to automatically fill in with information. US Patent # 6,928,623 issued August 2005. (Filed December 1999.)
- System and method of processing computer form data. US Patent # 6,851,087 issued February 2005. (Filed October 2000.)
- Proxied filtering by Wireless Provider for Mobile Commerce Transactions. Patent application filed May 2003.
- Communication mechanism between client-side html scripts and external programs. Patent application filed April 2002.
- Drag-and-drop to OLE drop targets & non-OLE windows within the same operation. Published November 1999, IBM Invention Publication Database.

**HONORS AND AWARDS**

- Total Customer Experience Champion - NetApp, November 2008.
- Invention Achievement Award - Patent Issued - IBM, August 2005.
- Invention Achievement Award - Patent Issued - IBM, February 2005.
- Invention Achievement Award - First Plateau - IBM, October 2003.
- Outstanding Technical Achievement Award - IBM, February 2000.
- Invention Achievement Award - First Patent Application - IBM, December 1999.
- Market Driven Quality “Blue Ribbon” Award - IBM, March 1997.
- Outstanding Technical Achievement Award - IBM, July 1996.
- Distinguished Contribution Award - IBM, October 1995.
- Market Driven Quality Award - IBM, March 1995.
- Team Contribution Awards - IBM, November 1994 and December 1995.
- Eta Kappa Nu, Electrical Engineering Honor Society

**EDUCATION**      Michigan State University, East Lansing, Michigan  
 Bachelor of Science, Computer Engineering (GPA: 3.7)  
*Member of Honors College, Graduated with High Honors*  
 Graduated in December 1993

**INTERESTS**

- Inline ultramarathon speedskating, roller hockey, downhill skiing, soccer
- President of Triangle Skate Club ([www.triangleskateclub.com](http://www.triangleskateclub.com))
- Martial Arts (Shito-Ryu karate, Tae Kwon Do Moo Duk Kwon)
- Collecting and restoring classic arcade video games

**REFERENCES**

<p>Terry Hardin, Chief Executive Officer          PerfTech Consulting          8824 Woodyhill Rd.          Raleigh, NC 27613          (919) 696-3643  <a href="mailto:terryhardin@gmail.com">terryhardin@gmail.com</a></p>	<p>David Soroka, Manager          IBM Corporation          4205 S. Miami Blvd.          Research Triangle Park, NC 27709          (919) 254-9553  <a href="mailto:dsoroka@us.ibm.com">dsoroka@us.ibm.com</a></p>
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