BRENDON J. WILSON
203-5030 East Hastings,
Burnaby, B.C., V5B 1P6
(604) 294-6320
e-mail: brendon@sfu.ca

EDUCATION

Sept. 1993 - June 1999	Simon Fraser University, Burnaby, B.C. Bachelor of Applied Science School of Engineering Science, Systems Option
June 1993	Mount Baker Secondary, Cranbrook, B.C. Graduated with honors

WORK EXPERIENCE

May 1998 to
Present Day

Software Developer
IBM Pacific Development Center, Burnaby, B.C.
Responsible for designing, coding, integrating, testing, and reviewing infrastructure and business functions for a Java/web-based interface to PeopleSoft/Oracle for a high-technology education project at a U.S. university. Development employed a use-case based methodology, Rational Rose/UML and design patterns. Final solution integrated JDK 1.1.6, JNDI, Oracle, JDBC, JavaMail, Java Activation Framework, PeopleSoft, XML/XSL, and servlet components.

Summer 1996

Software Developer/Web Developer
ICS Net Inc., North Vancouver, B.C.
Designed and programmed a set of easy-to-use Java utilities to allow faster production of interactive WWW content. Consulted directly with current and pending customers on maintenance, production, and design of client WWW sites. Employed Adobe Illustrator and Photoshop to create the look and feel, and layout of client sites.

Fall 1995

Junior Engineer
MPR Teltech Inc., Burnaby, B.C.
Investigated current and emerging video and multimedia conferencing tools to predict possible product advances and growth areas for Stentor. Compiled extensive documentation in consultation with Attended TeleCon XV in Los Angeles to study new products and developments in multimedia conferencing.

Spring 1995

Junior Engineer
BC TEL Advanced Communications, Burnaby, B.C.
Produced the preliminary BC Tel Advanced Communications WWW site in preparation for the kick-off of a national Stentor campaign. Compiled and prepared replies to clients' requests for quotes. Educated the sales team on business applications of the Internet.

Summer 1994   **Junior Test Engineer**
Spectrum Signal Processing, Burnaby, B.C.
Provided post-sales customer support, working over the phone to solve customer problems and analyze possible software glitches. Wrote and executed test plans for new products, debugged beta-version software and hardware, and coordinated with development team to produce patches.

SKILLS

Software:
- Fluent in Java (1.0.x, 1.1.x, 1.2) language, as well as JFC, Java servlets, JavaMail, Java3D, and JDBC libraries
- JavaScript, x86 assembler, Modula-2, and Turbo Pascal programming
- Working knowledge of C/C++, Perl, XML/XSL
- HTML programming, HTTP web server software
- Common applications for most platforms including: MS Office, AutoCAD, Orcad, Matlab, Photoshop, Illustrator, Visual J++
- Fluent in DOS, UNIX, Solaris, Macintosh, and Windows systems
- Working knowledge of QNX, and SGI operating systems

Hardware:
- Microprocessor hardware design experience
- Low level logic design, finite state machine implementation

Theory:
- Object-oriented programming using design patterns
- Digital signal processing
- Real time systems
- Classical and modern control systems
- Transducer principles and analysis
- Analog circuit analysis techniques
- Acoustic physics

Other:
- Software and hardware debugging and testing techniques, including automated test tools such as JavaScope, JavaSpec and JavaStar
- Printed circuit board layout techniques
- Test equipment operation
- Project management and documentation skills
- Excellent public speaking and presentation abilities
- Excellent team player
- Proficient second-year university French

PROJECTS

1998   Thesis: produced a Java-based 3D robot simulator. This simulator allows users to built virtual manipulators and program their movement, both directly and through inverse-kinematics. This simulator won 1st place in the Java3D programming competition, and is now being used at SFU in teaching robotics and manufacturing courses in engineering.

1997   Real-time systems: created a 68HC11-based system to turn an ordinary oscilloscope into a raster display with a refresh rate of 110Hz.

1996   Project course: designed and implemented a navigation control system for a dirigible-based aerial robot.

AWARDS AND ACHIEVEMENTS

1998	IBM Team Success Award, Whistler Project
1998	IBM Individual Achievement Award
1998	Sun Microsystem's Java3D Programming Contest, 1st place
1996	CEC (national) Debating, 2nd place team
1996	WECC (regional) Debating, 1st place team
1996	B.C. Hydro Scholarship
1993	President's Entrance Scholarship, SFU
1993	Premier's Excellence Award
1993	Cranbrook Mayor's Citizenship Award

VOLUNTEER AND EXTRA-CURRICULAR ACTIVITIES

1998	Simon Fraser Student Society Forum representative for Engineering
1997	Co-founder of the Open Mike Society, University of Sussex
1996 - 1997	Foreign exchange student at the University of Sussex, Great Britain
1995	Backstage crew for 'Tabs' theatrical production
1995	Applied Science's Theatresports Competition - 1st place team
1994	Co-founder of FUSS student music group, SFU
1993 – 1995	Member of the Mobile Robotics Group, SFU

INTERESTS

Music	Actively involved in composing and rehearsing music in my home studio for performance at local venues and open mike nights. Recently released first single on the University of Sussex "Park Village People" CD.
Scuba Diving	As a PADI-certified Open Water and Advanced Open Water diver, I enjoy experiencing the many diving opportunities available at local sites; recent dives have included the HMCS Saskatchewan, Dodd's Narrows, Kelvin Grove and Ansil Point.

REFERENCES

Available on request.