

Andrew du Toit

SUMMARY

A computer professional with twenty years of experience in all phases of the systems development life cycle developing software for a wide variety of application types (air traffic control, graphics, database, object oriented, user interface, engineering, etc.) on WINDOWS, UNIX, Linux and DOS platforms. Ten years as owner/operator of an on-site computer service company providing a wide range of computer services to business and residential clients with Windows, MAC, or linux computers (<http://members.shaw.ca/compu-doc>). One year as a staff manager for a group of eight consultants. Nine years of technical support resolving hardware and software issues by phone, internet, and client site visits. Five years as a consultant on a variety of projects for satisfied clients. Nine years as a webmaster and website designer for profit and non-profit organizations (full details on personal website – see <http://members.shaw.ca/andrewdt>).

EDUCATION AND QUALIFICATIONS

Diploma of Technology in Computing – Science Option. Camosun College, Victoria, B.C.

Bachelors Degree in Information Technology equivalency certified by Foundation for International Services, Inc. – 03/02

Microsoft™ certified in Programming in C++ - Step Technologies, Portland, OR.

Brainbench™ certified in C, C++ and HTML programming, and High IT Aptitude (problem solving skills) – see <http://www.brainbench.com> for further details.

Diversity training (dealing with cultural differences and different personality types) – Ajilon Consulting.

Languages : C, C++, VC++, HTML, VB, Unix Bash/K shell script, SQL, Javascript, Perl.

Development Tools: MS Developer/Visual Studio (MFC, STL, ATL, VSS, COM, VC++, ADO), WIN32 API, Rational (Rose, Clearquest, Clearcase, Xdts), GNU (C, C++, Xemacs, DDD), PVCS, MAPI SDK, VI, Visio professional, WATCOM C/C++, Eclipse, Netbeans, various version control systems.

Operating systems : Sun Solaris Unix, Windows 3.1 - Vista, Linux (Suse, Ubuntu, Mandriva), Mac OS X.

Databases: Oracle, MS Access, Watcom SQL, Open Office Base, MS SQL Server.

Other job skills:: Object Oriented analysis and design, high level or detailed problem analysis and resolution, Business Analysis, GUI design, mentoring junior programmers, teamwork, technical writing (manuals, help files, bulletins, newsletters), hosting workshops and technical seminars, training users in groups or one-on-one, technical support, unit and regression testing, hardware assembly, application support in a production environment, network cabling, windows registry troubleshooting.

Applications: Website tools (Dreamweaver MX, Filezilla, Apache web server); Graphics(Photoshop, GIMP, ACDSee); Office suites (MS Office, Open Office, Corel Office); Firewalls (Zone Alarm, Windows XP, NVidia); Email (Outlook, MS Exchange Server, Eudora, Evolution); Antivirus (Norton, McAfee, AVG); Antispyware (Ad-aware, Spybot S&D, Hitman Pro); Diagnostic tools (Ultimate Boot CD, Partition Magic, Acronis Disk Manager); Hard Drive Imaging/Data Recovery (Norton Ghost, Acronis TrueImage).

Special Interests: Internationalization of software(dynamic date/time/currency notations), GIS, database design and interfaces, air traffic control applications, scientific and engineering applications, Graphic Design, linux, linux 'live CDs' for data recovery.

Foreign Languages: Some Spanish, some French.

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Current Studies: Java, DHTML, .NET (VB, VC++, C#, ADO, ASP), Project Management, XML, PHP, Network security, linux administration, client-server methodologies.

WORK EXPERIENCE

Various Website designer / webmaster **Apr '98 - Present**

- Web site design and maintenance(see Links page on <http://members.shaw.ca/compu-doc>).
- Graphic design of logos, background patterns, menu buttons.
- Use of Cascading Style Sheets for flexibility and ease of maintenance.
- Javascript for a Paypal-enabled webstore, suggestion boxes, a marketing survey, and mouseover image swapping.
- Perl script-based chatrooms.
- Providing advice on ergonomic issues.
- Conversion of corporate financial statements into HTML tables.
- Conversion of electronic documents into password protected PDF files (e-books & e-lessons).
- Training of non-technical people to perform simple website maintenance.
- Conversion of an SOP manual into HTML pages according to style/coding standards of a provincial government ministry.

Computoc Consulting Proprieter **Sep '04 – present**

Mobile computer services including - troubleshooting of hardware, operating system & software configuration issues; operating system and hardware upgrades; network configuration and setup; graphics and website design; Paypal-enabled webstores; virus detection and removal; tutoring in a wide variety of computer skills such as computer maintenance issues, email and digital photography, basic and power user techniques; advanced office software usage, etc.

ITI International Technology Integration Consultant **March – June 07**

Onsite technical consultant representing a Victoria-based transportation software developer to their US based client. After 1.5 days training at home office, traveling to the south eastern US to assist in deployment of software updates to Windows CE mobile devices located in a bus fleet and computers at the clients head office. Duties included :

- training operators at the client site in the use of different software packages,
- manual downloading of transaction data from the bus fleet,
- manual update of Windows CE configuration files and software,
- detailed diagnosis and resolution of serious wireless network problems,
- installation of special debug versions of applications to assist in problem identification,
- database structure updating via SQL patch file together with software updates,
- developing a spreadsheet formula for GPS coordinate conversion,
- attending meetings with representatives of the city and local colleges as a technical expert on implementing magnetic card access to the transit system.

ITI International Technology Integration Consultant **May 06 – July 06**

Hardware/software inventory phase of a workstation upgrade project for a provincial government ministry. Technical analysis of collected data and preparation of ARF documents for next phase of the

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project. Project involved over 1000 workstations and laptops. Supervision of hardware installation staff during hardware replacements.

360 Surveillance. Inc. Technical Support/QA **May '05 – Oct '05**

Specializing in video surveillance, security, and intelligent traffic system applications to monitor and control sensors, switches, video cameras and recorders, signs, and related electronic equipment.

- Evaluation, testing, and release of new device drivers and software upgrades.
- Technical support, setup and configuration of a linux server.
- Setup of surveillance equipment and software for demonstrations and training sessions.
- Writing and updating test scripts as core software and device drivers are updated.
- Developing utility applications in VB.

Ajilon Consulting, Inc. Staff Manager **Jun '02 - Jun '03**

Responsible for eight other Ajilon consultants. Duties included participating in bimonthly salary and performance reviews, and acting as advocate for the consultant when needed. Note – Staff manager Duties performed in addition to regular software development duties.

CPDLC1a Project Senior Software Engineer **Apr '03 – Jun '03**
Client (an *FAA* subcontractor) located in Egg Harbor Township, NJ

Controller Pilot Data Link Communications – a secure, dedicated, private messaging network designed to eliminate verbal miscommunication of crucial messages between pilots and controllers by printing them out in the cockpit on a teletype-style device.

- Designing SNMP module for Network System Monitoring.
- UML using Rational Rose and Clearquest.

CTAS Project Senior Software Engineer **May '01 – Mar '03**
Client (an *FAA* subcontractor) located in Egg Harbor Township, NJ.

Aircraft arrival scheduling system hosted on Sun Solaris workstations and based upon a working *NASA* prototype.

- Development using GNU & Rational tools – C, C++, Xemacs, Xclearcase, Xddts.
- Participation in teleconferences concerning problems in field installations.
- Providing expert advice in design discussions and high-level/detailed problem analysis as required.

IIM Project (Westminster, CO.) Senior Software Engineer **Jan - Mar '01**

Windows NT-based Internet email extension to a telephone messaging application.

- Investigation of a freeware email server, email standards and DNS server issues.

Liquid Solver Project (Carlisle, PA) Senior Software Engineer **Apr - Dec '00**

COM component to perform water distribution system analysis/ hydraulic engineering.

- Development using VC++ and Visual Fortran, with extensive use of MFC, STL, and ATL.
- Investigation of issues involved in translating and marketing the project in different countries and languages (Date/Time/Currency notations, etc).
- Database interfaces to MS Access & Oracle databases.

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- Unit and regression testing using VB programs to test the COM interface, and VC++ programs to test the underlying C++ classes and application DLLs.
- Peer testing of all code changes and new modules.
- Bug/issue tracking using a proprietary application based on Lotus Notes.

Exchange-IBM Project (Lynchburg, VA) Senior Software Engineer Oct '98 – Mar '00

Email gateway for Exchange & IBM mainframe email and a text-only message system.

- Reengineering, completion, and documentation of a partially complete email gateway application written using VC++ on a Windows NT server platform.
- Application support and systems administration in a production environment.
- Group and one-on-one training of end users.
- Support of MS Exchange server and Windows NT Server.
- Supervision of a junior programmer.
- Use of IVANS Secure-IP File Transfer Manager and MS Exchange IBM OV/VM connector.
- Conversion of IBM mainframe electronic forms to Outlook 98 client forms with VB server applications running on Windows NT server.

Gemcom Software International Inc Intermediate Programmer Apr '89 - Feb '98

GEMCOM is a world leader in the development of computer applications for the mining industry to support the exploration, design and ongoing operation of open-pit, underground, and block-caving mine facilities.

- Development and maintenance of specialized mining applications, utility programs (hardcopy graphics output, database backup and restoration, etc.), and shared corporate function libraries. These applications involve a complex user interface, extensive database interaction, data transfer between applications and graphical data preparation.
- Converting DOS applications in 'C' into a Windows 95/NT application in VC++.
- Full systems development life cycle for a hazardous chemical database application (PC-WHMS) using Watcom SQL and Watcom C(4 years).
- Working closely with the GIS department in a sister company to tailor graphical utilities to provide transferable data.
- Technical support of hardware and software problems via telephone, BBS, Internet, and site visits – approximately ½ of work hours occupied by this duty.
- Computer assembly and assisting in wiring office with a 10/100 Base-T network as needed.
- Technical writing of help files, manuals, newsletter articles.
- Giving seminars and workshops at international user group conferences.

Dynapro Systems Inc. Junior Programmer Oct'87 – Dec '88

Dynapro specializes in real-time applications for industrial process control and case-hardened hardware.

- Junior programmer on a team developing an industrial process control application written in 'C'.
- Following strict standards for software design, coding, source code control, testing and documentation.

REFERENCES

References available on request.