

96 Haileybury Drive
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M1K 4X5

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dseabroo@sympatico.ca
<http://electricgenesis.com/>

EDUCATION	Bachelor of Science, Applied Computer Science 2003 <i>School of Computer Science</i> Ryerson University Toronto, Ontario
	Ontario Secondary School Diploma 1998 <i>Talented Offerings in the Pure Sciences</i> Marc Garneau Collegiate Institute Toronto, Ontario

QUALIFICATIONS	<ul style="list-style-type: none">• Fully conversant using, developing for all major computer platforms, including UNIX, Windows, MAC OS• Extensive knowledge about digital television, radio technologies, small Internet connected, wireless devices, how they can be integrated, used together• Quick to learn new applications such as office suites, graphics, design tools, video editors, closed captioning authoring tools, 3-D modeling programs• Able to quickly navigate between applications, perform many tasks at once• Customer service / technical support / call centre experience• Extensive work for the Web, including HTML / CSS, Javascript / JQuery, CGI / PHP / Perl back ends, Web-based database (SQL) systems• Designs that work on set-top, hand-held or wireless computers, devices, accommodating disabilities• Knowledge about & experience with digital signage technologies• Experience doing projects in Assembly, BASIC, C, C++, COBOL, Java, at least 20 other programming languages or environment
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PROFESSIONAL EXPERIENCE	Computer Consultant, Tutor 2003-present <i>Electric Genesis Consulting & Research</i> Toronto, Ontario <ul style="list-style-type: none">• Contracts revolving around software design, implementation• Computing consultant for small business assessing computing needs, suggesting solution• Worked with private individuals to eliminate personal computer problems such as ad-ware infestations, virus removal, software installation, removal, configuration changes, suggesting hardware upgrades• Offered tutoring about computer related topics at basic, intermediate and advanced level
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Freelance Software Developer **2009-present**

3 2 1 Software Design

Toronto, Ontario

- Designed web pages according to designs by graphic artists using PHP, CSS, & Javascript w/ JQuery extension

Freelance Software Developer **2006-present**

Schnappz Media

Mississauga, Ontario

- Created end-to-end Digital Signage media-player & content management/delivery system to client's specifications
- Wrote custom C++ scraper program to harvest information from HTML
- Constructed web based data-retrieval system for information about ink-jet & laser printers

Software Engineer, Animator **2003-present**

Fantaplay Entertainment Corporation

Toronto, Ontario

- Developed applications for game development system
- Acted as math, technical consultant for engine development
- Assisted in meetings, managerial decisions made by the company

Energy Consultant **2006**

Universal Energy Alternatives

Toronto, Ontario

- Participated in training course about the current nature of the energy industry in Canada
- Participated in hands-on door-to-door sales experience with actual customers on the field
- Learned sales and marketing techniques applicable to all industries

AOL Technical Support Rep **2005**

Technion Communication

Toronto, Ontario

- Took calls directly from AOL members; assisted members with problems concerning their software configuration and dial up connections
- Used trouble-shooting software to diagnose problems and create work-flow to solve errors
- Submitted host problem reports when applicable
- Directed members to other departments or companies when applicable to solve their issue

Derek Seabrooke, BSc

Last Updated 02/03/10

Courageous and Whole – as a Scientist, as an Artist, as a Person

Most recent version at <http://electricgenesis.com/>

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Research Assistant
Ryerson University
Toronto, Ontario

1999-2003

- Assisted in experimental closed captioning of Discovery's Rocket Science television series
- Aided in the development of closed captioning editor for EIA-708 Closed Captioning Standard for ATSC (North American Digital Broadcast Television)
- Wrote software driver for haptic device – simulating tactile impressions on the feet of human test subjects
- Created a prototype emotive-closed-captioning system, making much superior closed-captioning possible with currently available advanced television technologies
- Managed computer resources
- Assisted clients in the development of product prototypes for advanced-television
- Helped to setup an experimental terrestrial digital television transmitter on the CN Tower
- Assisted in trials of ATSC/8-VSB transmission scheme, a rare North American trial of DVB/COFDM transmission
- Did work in C, C++, HTML, Java, Javascript, Realbasic, Runtime Revolution

MEMBERSHIPS

- Association of Computing Machinery
- United Nations Association of Canada

INTERESTS

- Cosmology & astronomy
- Manned & unmanned spaceflight
- Science fiction
- Politics & Societies
- Personal growth
- Volunteering