

# Andrea Edelstein

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## EDUCATION

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### **McGill University: M.Eng. Electrical Engineering (February 2012)**

Thesis: *Background subtraction methods for online calibration of baseline received signal strength in radio frequency sensing networks*

- Adapted machine learning and image processing techniques to the domain of wireless sensor networks
- Investigated and analyzed the physical behaviour of wireless signals
- Contributed to three IEEE conference/journal papers
- Winner of both the Principal's and the Provost's Graduate Fellowships (2009)
- NSERC Alexander Graham Bell Canada Graduate Scholarship Recipient (2010)

### **McGill University: B.Eng. Computer Engineering (May 2009)**

- CGPA: 3.89/4.00
- Dean's Honour List (2006-2009)
- J.W. McConnell Scholarship Recipient (2005-2008)

#### Large Projects

- Participated in full-scale Java software engineering project including planning, coding, testing and documentation (design patterns, SRS, test cases, etc.)
- Designed and implemented many low-level applications in VHDL, assembly and embedded C including games and sensor networks

### **Dawson College: DEC in First Choice Pure & Applied Sciences (June 2005)**

- GPA: 95%
- Graduated with First Class Honours
- Won First Year and Second Year Achievement Awards
- First Choice Trivia Team
- Tutored physics

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## WORK EXPERIENCE

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### **Freelance Software and Webpage Developer (2005-Present)**

- Design and implement software, scripts and webpages for a variety of clients
- Solicit requirements and document solutions clearly for both technical and non-technical audiences
- Employ HTML5, JavaScript, CSS, SQL, etc. as well as Photoshop to create slick, attractive, interactive and complex webpages
- Employ Java, Perl, C, etc. to build intuitive, efficient text- and GUI-based solutions

### **RockyHorrorMontreal.com: Webmaster (2005-Present)**

- Implement and update website as per client's wishes using PHP, JavaScript, etc.
- Reply to or otherwise deal with all e-mail inquiries
- Manage social media for the client (Twitter, Youtube, etc.)

### **Intelrad Medical Systems: QA intern (2008), QA Analyst (2009)**

- Wrote Perl-based automated scripts to test back-end, front-end and web-based components
- Diagnosed and filed reports on found bugs and verified bug fixes
- Edited and improved internal tool libraries

### **Debbie's Dishes [online antique dealers]: Lead tech support (2002-2008)**

- Maintained office network
- Troubleshot hardware and software problems
- Independently acquired skills to solve new problems as they arose

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## **VOLUNTEER EXPERIENCE**

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### **P.O.W.E. (Promoting Opportunities for Women in Engineering): Demonstrator (2009)**

- Gave talks about McGill's engineering program to high school students
- Presented ongoing research from the Computer Networks Research Laboratory

### **P.O.W.E.: Assistant coordinator (2005)**

- Collected and created original material to distribute to high school students
- Animated activities to educate students about engineering careers
- Organized sponsorship deals for conference raffle

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## **SKILLS**

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- Fluent French and English
- Responsible and organized
- Programming languages: **Perl, Java, MATLAB, PHP, JavaScript, CSS, HTML, C/C++, SQL, jQuery, VB.NET, Python, shell scripting, UML**
- Excellent writing skills

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## **OTHER INTERESTS**

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- Astrophysics and aerospace, video games, creative writing, open-source development