Nicolas Primeau

CONTACT

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EDUCATION

BASc in Computer Engineering   September 2011 — April 2015 (Expected)

University of Ottawa

The Computer Engineering Bachelor of Engineering at the university of Ottawa focuses on hardware design and architectures and low-level software such as Assembly and C. The program is broad in scope, with emphasis on electronics, hardware and software design, communication and control.

High school Diploma   September 2007 — June 2011

École Secondaire Franco-cité

- Received awards for best average in calculus, mathematical functions and best average overall
- Received a bursary from the University of Ottawa
- Received a bursary from the Engineering Dean of the University of Ottawa for Excellence

WORK EXPERIENCE

Natural Resources Canada   May 2014 — August 2014

GPS Data Analyst

- Designed a system to automatically stream, process and validate new format of GNSS data
- Created intranet Web Apps to visualize and graph GNSS data for the international GNSS community
- Automated many tasks and processes to facilitate converting satellite data from stations throughout Canada and the world into refined data

Computing and communications services (uOttawa)   May 2013 — February 2014

Web Development assistant

- Worked on the WebCMS (Drupal 7) project, which involved back-end work (PHP, Nginx, Varnish and server configuration), front-end design (CSS, HTML, JavaScript) as well as other tasks.
- Involved in the launching of the new uOttawa site and other faculty and services sites
- Sample of something I've worked on: http://www.uottawa.ca/

Web Master   July 2014 — Ongoing

Contract

- Contract work for the Human Rights Research and Education Center of the University of Ottawa to build and maintain their website
- Link to the site: http://cdp-hrc.uottawa.ca/

PROJECTS AND COMPETITIONS

Capstone Project (September 2014 - Ongoing)
- Smart system capable of keeping track of food stocks, accessible by web
- Created with the help of sensors, Arduino, MongoDB, Python, Raspberry Pi, networking and many more technologies
- Completed by a team of three members, of which I had the role of project manager and product engineer

uOttawa Coding Competition - Robocode (February 2013)
- Our team won the competition with our robot 'Brobot'
- The goal was to code the behavior of a simulated robot which would fight against other robots

Many other miscellaneous projects
- AC97 sound transmitter
- Personal Website
- Other unfinished projects

COMPUTER RELATED SKILLS

Hardware specific skills:

- Hardware description languages: VHDL
- Low level understanding of many micro processor and memory architecture
- Experience with micro-controllers and FPGAs (Altera, Xilinx)
- Previously used Altera and Xilinx design tools

Software specific skills:
- Web-specific languages: JavaScript, CSS, HTML, PHP
- Other languages: Python, C/C++, Assembly, Java
- Database: MongoDB
- Frameworks: OpenCL

Other computer skills :
- Worked with Nginx, Apache, Varnish and Git
- Knowledge in networking protocols and experience managing networks
- Experienced user of Linux, Windows, Chrome OS and Mac OS

QUALIFICATIONS

- Completely fluent in French and English
- Member of the IEEE

INTERESTS AND OTHER

- Hobbies include history, playing music and listening to music, reading, board games and video games