

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.

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 — Present

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