Jean-Sébastien Déry

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Education

2010–2015	**B. Eng. Computer Engineering**, *McGill University*, Montréal, QC, Canada.
courses:	Artificial Intelligence, Algorithms and Data Structures, Operating Systems
CGPA:	3.33/4.00
2008–2010	**D.C.S. Computer Science & Mathematics**, *CEGEP de Saint-Jérôme*, Saint-Jérôme, QC, Canada.
awards:	Student Merit Bursary of CEGEP de Saint-Jérôme

Experience

Fall 2014 — **Software Engineer Intern**, *Amazon.com*, Seattle, WA.
- Automated the data collection of a new observation used to generate recommendations
- Added the new observation to the e-book suggestion algorithms
- Improved 25% of all e-book recommendations on Amazon.com and Kindle devices

Summer 2014 — **Software Developer Intern**, *Ericsson*, Montréal, QC.
- Setup a framework in Java to allow the automation of a SIP stack's system tests
- Programmed a resource monitoring system in Java used to monitor servers
- Improved a Java wrapper for a SIP traffic generator to augment modularity
- Programmed test cases in Java based on specifications to increase testing efficiency

2010–2013 — **Infantryman Corporal (Reservist)**, *Canadian Armed Forces*, Montréal, QC.
- Second-in-Command of my section composed of 8 men
- Learned how to operate and focus on the mission in stressful situations
- Acquired rigid self-discipline and strong determination to achieve the mission

Winter–Summer 2013 — **Software Developer Intern**, *Ericsson*, Montréal, QC.
- Implemented a storage solution for incoming SMS and MMS in Java
- Enriched an IMAP testing framework by adding new supported commands
- Migrated regression suites from a Java testing framework to a TTCN platform

Technical Experience

Proficient With
Java, Unix, OOP, Agile, UML, CI, TDD

Have Experience With
C/C++, Python, Git, ROS, Maven, OpenCV, Spring

Design Projects

2013–2014 **Software Engineering Leader**, *McGill Robotics: Autonomous Underwater Vehicle*.
- Lead 35 people from the Software Division to build an autonomous submarine
- Ranked 10th out of 39 international teams at the RoboSub 2014 competition
- Taught and made sure the Agile methodologies were followed by the 5 different sections throughout the process
- Worked on a technical section to implement the computer vision with OpenCV in C++
- Wrote feature detection as well as distance estimation algorithms in C++
- Designed and implemented the software architecture with the Robot Operating System

2012–2013 **Motor Team Leader**, *McGill LunarEx: Autonomous Lunar Rover*.
- Responsible of the selection and assembly of 8 motors and motor-controllers for the rover
- Ranked 12th out of 50 international teams at the NASA Lunabotics Mining competition
- Managed a budget of ~$5K for the motor equipment out of a total budget of ~$20K
- Created a custom Arduino shield with 3 teammates that featured low-pass filters to convert PWM signals to analog - to interface with the 8 motor-controllers

Academic Projects