Bryan Lee

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**EDUCATION**

**CodeCore Bootcamp Vancouver, BC**

*Full Stack Web Developer* December 2016 – April 2017

* Front-End: HTML5, CSS, JavaScript, jQuery, Ajax, Bootstrap, React.js
* Back-End: Ruby on Rails, Node.js
* Databases: MySQL, PostgreSQL, ActiveRecord
* Deployment & Development Tools: Heroku, Github

**McGill University Montreal, QC**

*Bachelor of Mechanical Engineering* September 2008 – May 2015

**WORK EXPERIENCE**

**NuWave Research Inc. Burnaby, BC**

*Jr. Mechanical Engineer* December 2015 – Nov 2016

* Assisted engineering team with 3-D modelling and detailed drawings using SolidWorks
* Created, edited and maintained technical documentation such as; standard operating procedures (SOP), Bill of Materials (BOM) and First Article Inspection (FAI).
* Bridged management with the production floor; worked closely with the technicians providing engineering solutions they require
* Performed stress calculations and HVAC analysis and successfully designed a new duct system
* Repaired failed machines and provided new designs to optimize them

**Formula SAE McGill Racing Team Montreal, QC**

*Mechanical Engineer* September 2014 – April 2015

* Optimized the performance of the race car by designing a new suspension a-arm mount
* Built conceptual CAD models using SolidWorks
* Examined the CAD models through finite element analysis (SolidWorks, Ansys)
* Tested the prototype using MTS tensile machine and determined the safety factor
* Proposed the final design to the team with an effective oral presentation

**McGill University Montreal, QC**

*Climate Change Research Assistant*  May 2014 – August 2014

* Worked as a research assistant for Dr. Yeo Myung Ho, Dept. of Civil Engineering
* Collected, summarized and analyzed the precipitation data in Dorval, QC (1961-2001)
* Researched and compiled articles about precipitation estimation and modeling
* Assisted programming an application in Matlab that inputs data and generates statistical graphs
* Coded several algorithms in Matlab to perform numerical analyses on nonlinear systems of equations

**Midas IT Bundang, Korea**

*Summer Internship*  May 2013 – August 2013

* Mainly assisted the international sales team
* Analyzed product’s durability numerically, using finite element (midas NFX)
* Marketed the product by cold-calling potential clients overseas: Europe, East-Asia, etc.
* Led a Webinar to introduce and explain the product’s features
* Drafted and translated official documents to describe the product; Korean to English (vice versa)
* Supported clients by developing product tutorials using PowerPoint

**Caleb Graphic Signs Vancouver, BC**

*Summer Internship*  May 2012 – August 2012

* Managed documents, data entry and inventory stock
* Manufactured and installed various types of signs such as Acrylic signs, Channel Letters, LED Message Centers, Building Signs, Interior Signs and Vehicle Signs
* Assisted graphic designing using adobe CS5 illustrator
* Printed posters, business cards, flyers etc.

**LANGUAGE**

Native in Korean

**SKILLS**

**Matlab:** Proficient, **SolidWorks**: Proficient, **JavaScript, Ruby:** Proficient, **Java, Fortran, C++:** Basic