Michael Elliot King — Curriculum Vitæ

DEPARMENT OF MECHANICAL ENGINEERING
MCGILL UNIVERSITY
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Education

2009 - 2014 (Expected)

B.Eng., Mechanical Engineering
McGill University, Montreal, Quebec

Relevant Experience

8/2013 - Present

MECHANICAL ENGINEERING LEAD | CONTROL SYSTEMS
McGill A.U.V. Robotics Design Team – Montreal, Quebec
Competing in AUVSI's International RoboSub Competition in San Diego
- Lead all mechanical design and manufacturing for a team of 80 students creating an autonomous underwater vehicle
- Design, simulate, and build control system for the propulsion of an unmanned submarine

Summer 2013

CONTROL SYSTEMS & ENGINEERING INTERNSHIP
T. Davlin Glass – Cambridge, Massachusetts
- Designed, manufactured, and wired systems to control the temperature of custom-built, high-powered glass kilns
- Aided in the design and construction of additional kilns

Summer 2012 & Summer 2013

PAID ENGINEERING INTERNSHIP
Robies Heating & Cooling HVAC – Hyannis, Massachusetts
- Developed and implemented automated programs for generating project estimates
- Developed workflow and inventory management system
- Provided company-wide technical support

8/2012 - 8/2013

MATERIAL COLLECTION SYSTEM LEADER | MARKETING & MEDIA DIRECTOR
McGill LunarEx Robotics Design Team – Montreal, Quebec
Placed 12th out of 50 international teams at NASA's Lunabotics Mining Competition – Orlando, Florida
- Lead the efforts of a five person group responsible for designing, manufacturing and assembling the mechanism that collects and dumps lunar regolith simulant
- Brought original concepts to realization through CADing, machining, assembly, and testing
- Developed rebranding strategies to increase interest in robotics and team credibility

1/2013 - 8/2013

FRONT END & USABILITY LEAD
Braille University iPhone Application – Montreal, Quebec
Tool to aid in teaching Braille to blind children using an electronic medium
- Created a mobile application focusing on usability and the user interface
- Using a user-centered design approach, created prototypes, conducted user-tests, and coded the application to be easy to use, even without the use of vision

Software & Programming Skills

Computer Aided Design: Inventor, AutoCAD, Solidworks
Data Analysis: MATLAB, Excel
Programming Languages: Python, C, Objective-C
Version Control Systems: Git, Autodesk 360
Web Development: HTML, CSS, Markdown, Jekyll, Google Analytics, SEO
Media & Graphics: Illustrator, Lightroom, Photoshop, InDesign, Final Cut Pro