# Imran Jameel

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## EDUCATION

**MCGILL UNIVERSITY**
BEng in Mechanical Engineering
Concentration : Design
Minor : Tech Entrepreneurship
Expected Graduation : May 2018

## SKILLS

**SOFTWARE**
Languages
C • JavaScript (Node.js) • Python
Frameworks
AngularJS • Express • Bootstrap • Mocha
Dev Tools
Git • Unix • npm

**HARDWARE**
Soldering • PCB • Testing

**PRODUCT DESIGN**
SolidWorks • AutoCAD

## EXTRAS

**ENTREPRENEURSHIP**
- Semi Finalist @ McGill Dobson Cup Start-up Competition (2014 and 2015)

**LEADERSHIP**
Sri Lankan Association at McGill University (2014/2015)
- VP External
Canadian Undergraduate Tech Conference (2015)
- Campus Ambassador
Harvard Project for Asian and International Relations (2014)
- Technology Panel

**AWARDS**
- NSERC Industrial Undergraduate Student Research Award (Summer 2015)
- 1st Place : Most Innovative BCI project from openBCI @ AngelHack, Montreal
- 1st Place : Most Innovative Use of the Intel Galileo Board @ YHack, Yale University
- 1st Place : Best Use of Thalmic Lab's Myo armband @ WearHacks, Montreal

## LINKS

Github:// **imranj131**
LinkedIn:// **ijameel**

## EXPERIENCE

**REELYACTIVE** | Systems Integration Engineering Intern
May 2015 – Aug 2015 | Montreal, Canada
- Engineered a library in Node.js along with Mocha (TDD) to decode low-power wireless protocol advertising packets.
- Developed and designed a web-app with AngularJS for a live version.
- All code was reviewed and pushed to production.
- Conducted research in low-power wireless transmission protocols such as BLE and RFID submitted a scientific paper to the IEEE World Forum on Internet of Things.

**MACES** | IT Consultant
Sept 2014 – May 2015 | Montreal, Canada
- Resolve computer-troubleshooting issues for students.
- Maintained IT infrastructure on a regular basis.

**3M** | Project Management Intern
July 2014 – Aug 2014 | Colombo, Sri Lanka
- Examined current traffic safety practices and remodeled a system for Class B roads that decreased costs by 10
- Documented a feasibility report on 3M Polycarbonate RPM's for implementation on Class B roads.
- Pitched proposal to 4 representatives from the Road Development Authority.

## PROJECTS

**AERO-MCGILL DRONES DESIGN TEAM** | Mech. Eng. Design Lead
June 2015 - Present
• Designing a quadcopter with a modular platform to change between surveillance and cargo transport.
• Working towards the 'Unmanned Systems Canada Student Competition'

**BRAIN COMPUTER INTERFACE (BCI)** | Brain Soother
June 2015 | AngelHack, Montreal
• Developed a headband with EEG sensors and a neuromodulator technology to measure and stimulate brain activity.
• Applied a FFT algorithm on the brain waves and built a user interface with SSVEP science to stimulate the user into a state of calmness via visual and auditory stimuli.

**BIOMETRIC SMARTWEAR** | Sensock
May 2015 | WearHacks, Toronto
• Fabricated a smart-sock to measure vitals such as heart rate and body temperature, as well as a haptic feedback sensor to page a doctor via a text message.

**INTERNET OF THINGS (IOT)** | MyoHome
October 2014 | YHack, Yale University
• Built a smart-home system with the Intel Galileo microprocessor with added gesture control via a Myo Armband integration.

**WEARABLE TECHNOLOGY** | MyoMusic
September 2014 | WearHacks, Montreal
• Engineered a gesture based virtual musical instrument.
• Presented project and demo at Google (Montreal), WeAreWearables (Toronto), and Tech@D (Montreal).