

# Imran Jameel

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## EDUCATION

**McGill University, Montreal, Canada**

Expected Graduation May 2017

Bachelor of Engineering

Major: Mechanical Engineering; Concentration: Design; Minor: Technological Entrepreneurship

## SKILLS

- **Programming:** C, Node.JS, Python, Arduino, HTML 5, CSS 3, JavaScript.
- **Product Design:** SolidWorks, Auto CAD.
- **Management:** Project Management, Consulting, Entrepreneurship.

## PROJECTS AND ACHIEVEMENTS

**AERO-McGill Drones Design Team, McGill Institute for Aerospace Engineering**

June 2014 - Present

- Mechanical Engineering Design Lead.
- 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, Angel Hacks, Montreal, Canada**

June 2015

- 1st Place for Most Innovative BCI project from openBCI.
- 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, WearHacks, Toronto, Canada**

May 2015

- 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.

**3D Printed Prosthetic Arm, McGill University**

December 2014 - Present

- Designing 3D CAD models for a biomechanical prosthetic arm.
- Working with a team of 5 engineering students to design, test and manufacture arm.

**Internet of Things (IoT) - MyoHome, YHack, Yale University**

October 2014

- 1st Place for Most Innovative Use of the Intel Galileo Board.
- Built a smart-home system with the Intel Galileo microprocessor with added gesture control via a Myo Armband integration.

**Wearable Technology - MyoMusic, WearHacks, Montreal, Canada**

September 2014

- 1st Place for Best Use of Thalmic Lab's Myo armband.
- Engineered a gesture based musical instrument application, which uses EMG sensors, an accelerometer, and a gyroscope from the Myo Armband to create a virtual musical instrument.
- Presented project and demo at Google (Montreal), WeAreWearables (Toronto), and Tech@D (Montreal).

## WORK EXPERIENCE

**Systems Integration Engineering Intern, reelyActive, Montreal, Canada**

May 2015-Present

- Awarded the 'NSERC Industrial Undergraduate Student Research Award'
- Conducting research in Bluetooth and its applications with wearable computing devices.
- Building a library in Node.JS to identify and classify Bluetooth packets.

**IT Consultant, McGill Association of Continuing Education Students, Montreal, Canada** September 2014 – Present

- Resolve computer-troubleshooting issues for students as well as manage software and printer maintenance.
- Play the role of a cashier attendant for transactions relating to printing, binding and beverage sales.

**Project Management Intern (Traffic Safety Systems Division), 3M, Colombo, Sri Lanka** July 2014-August 2014

- 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.

## **LEADERSHIP AND ENTREPRENEURSHIP**

- **McGill Dobson Cup Start-up Competition (2014 and 2015)** - *Semi Finalist*
- **McHacks, McGill University (2015)** - *Mentor (Wearable Technology/Hardware)*
- **Canadian Undergraduate Tech Conference (CUTC 2015)** - *Campus Ambassador*
- **Harvard Project for Asian and International Relations (HPAIR 2014)** - *Delegate on Technology Panel*
- **Sri Lankan Association at McGill University (SLAM 2014/2015)** - *VP External*