Imran Jameel

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EDUCATION

MCGILL UNIVERSITY
B.Eng, Mechanical Engineering
Concentration : Design
Minor : Tech Entrepreneurship
Expected Graduation : May 2017

SKILLS

PRODUCT DESIGN
SolidWorks • FEA • Rapid Prototyping • Machine Tools

HARDWARE
Circuits • SMD Soldering

SOFTWARE
Simulation & Data Aquisition
MATLAB/Simulink • LabVIEW
Programming Languages
C • JavaScript (Node.js) • Python
Frameworks
AngularJS • Express • Bootstrap

EXTRAS

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

LEADERSHIP
Engineering Ambassador
Dobson Centre for Entrepreneurship (2015/2016)

AWARDS
Natural Sciences and Engineering Research Council of Canada
Industrial Undergraduate Student Research Award
Hack The Planet, Silicon Valley
1st Place, Best Nest API Integration
YHack, Yale University
1st Place, Most Innovative IoT Project
Angel Hack, Montreal
1st Place - Best BCI Project
WearHacks, Montreal
1st Place, Best Thalmic Myo Project

LINKS

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

EXPERIENCE

MCGILL AERO DRONES DESIGN TEAM | Mech. Eng. Design Lead
June 2015 - Present | Montreal, Canada
- Leading the Structures and Propulsion sub-team to design a multirotor according to competition guidelines.
- Working towards the 'Unmanned Aircraft Systems' Competition in 2016.

REELYACTIVE | Systems Integration Engineering Intern
May 2015 – Aug 2015 | Montreal, Canada
- Engineered a library in Node.js to decode low-power wireless protocol advertising packets and developed and a web-app with AngularJS for a live version.
- All code was reviewed and pushed to production.
- Submitted a scientific paper on research in low-power wireless transmission protocols to the IEEE World Forum on Internet of Things

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

MECHANICAL DESIGN | Folding Garage Mechanism
April 2015 | McGill University (MECH 290), Montreal
- Designed a mechanism for lifting and lowering the awning bar of a folding garage, as well as produced 3D CAD models & manufacturing BOM using SolidWorks.

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.

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 using SSVEP.

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 demo at Google (Montreal), WeAreWearables (Toronto), and Tech@D (Montreal).