

# Abhayraj Jain

39 Paisley Ave. S., Hamilton, ON, L8S 1T9 | 365-777-1613 | [college@abhayraj.net](mailto:college@abhayraj.net)  
Portfolio available at [www.abhayraj.net](http://www.abhayraj.net)

## SKILLS

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- » Engineering *Design Thinking, Problem Solving, Computation, Error Analysis, Troubleshooting*
- » CAD/CAM Design *Autodesk Inventor, Solidworks, cncKad, EAGLE*
- » Programming Languages *C/C++, NodeJS, Java, Python, MATLAB*
- » Other *Arduino, Linux, CNC, Version Control (git), React, Adobe PhotoShop, InDesign, Premiere Pro*

## PROJECT WORK

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- » Winner at [Hack the North](#) 2017  
*Part of a team that designed, built, and coded a self-charging system to track bicycles and view their location live. Winning team at Canada's largest hackathon, with 1000 attendees and 238 submissions.*
- » Winner at Red Bull Adrenaline Hackathon 2018  
*Built a robot which was controlled by our VR Unity game which added a virtual skin and environment to the physical robot. Supercharging the HTC Vive game with seamless physical interaction.*
- » Built a custom 3D Printer/CNC Machine 2017  
*Adapted an advanced design that incorporates all-metal construction. Implemented advanced features such as a webserver and a phone app. Easily convertible to a laser engraver.*

## EDUCATION

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- » Bachelor of **Mechatronics Engineering**, Year 2 (Co-op) Expected Completion Apr 2020
- » International Baccalaureate (IBDP) from [The Doon School](#), India Graduated May 2016

## WORK EXPERIENCE

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- » Field Technician at Bell Technical Solutions May 2018 - June 2018  
*Provided installation, maintenance, and repair services for business and residential customers on behalf of Bell, Canada's largest telecommunications company.*
- » Teaching Assistant at McMaster University September 2017 - Present  
*Course : Engineering Design and Graphics*  
*Instructed 1st year students in CAD design on Autodesk Inventor and 3D printing using Repetier.*
- » Graphic Designer May 2012 - Present  
*Worked with over a dozen organizations. Used Illustrator, InDesign, and PhotoShop, to design advertisements that have been showcased in Toronto's TTC Subway.*

## VOLUNTEER EXPERIENCE

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- » Lead Mentor at [FIRST Robotics Competition](#) Team 6878 September 2017 - Present  
*Coached a group of 14 to 18 year old high school students with no robotics experience. Taught them how to design, program, and build a robot to fulfil the challenges set by the FIRST Organization.*
- » Co-Director at [DeltaHacks V](#) April 2018 - Present  
*Elected Lead Executive managing 6 teams comprising 35 members in total, hosting a hackathon for over 400 university students from across North America. Previously Head of Marketing May 2017 - April 2018.*