

Abhayraj Jain

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Portfolio available at www.abhayraj.net

EDUCATION

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

SKILLS

- » Engineering Design *Design Thinking, Problem Solving, Computation, Error Analysis, Troubleshooting*
- » CAD/CAM Design *Autodesk Inventor, Solidworks, cncKad, EAGLE*
- » Programming & Systems *C/C++, Java, Arduino, Python, MATLAB, Various Linux distros*
- » Graphic Design *Adobe PhotoShop, Adobe InDesign, Adobe Illustrator*

AWARDS & RECOGNITION

- » Winner at **Hack the North 2017**
My team designed, built, and coded a self-charging system to track bicycles and view their location live. We were a winning team at Canada's largest hackathons, with 1000 attendees and 238 submissions.
- » Winner of the McMaster University Sumobot Advanced Competition 2017
Built an autonomous robot which then competed in and won a competition against experienced teams.
- » Selected for McMaster Engineering Design Project Showcase 2016 Top 10 out of 250 teams
Recognized on cbc.ca - my team designed a semi-automatic door opening device for the wheelchair bound for under 100. We showcased it at McMaster's Annual Global Engineering Conference 2017

WORK EXPERIENCE

- » Teaching Assistant at McMaster University September 2017 - Present
Course : Engineering Design and Graphics
Instructed 1st year students in CAD design and engineering drawing.
- » Head Coach/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.
- » Head of Marketing at **DeltaHacks IV** May 2017 - Present
Led a team comprising graphic designers, website developers, and social media managers.
DeltaHacks is a hackathon hosted at McMaster University every January.
- » Freelance Graphic Designer April 2014 - Present
I have worked with over a dozen organizations on various graphic design projects.
Advertisements designed by me have been showcased in Toronto's TTC Subway.
- » Product Design at **Instruments & Chemicals Pvt. Ltd., India** June 2016 - Aug 2016
Worked independently to improve reliability by designing digital replacements for aging analog devices.
Accelerated R&D using Java and C/C++ to program a microcontroller and interface with other devices.