Aditya Thakkar

thakkaap@mcmaster.ca | 1-647-522-6680 | adityathakkar.github.io

Relevant Skills

Coursework	Software	Hardware	Currently Learning
Data Structures/Algorithms Microprocessors, Control Systems, Microelectronics, Logic Design	SQL, Visual Basic, Microsoft Office, Java, C/C++, HTML/CSS, Javascript, Python, Linux, MATLAB/Simulink	Arduino, Transistors, Motor Control, Robotics, Sensors,	MEAN Stack Development, Tensorflow

Education

McMaster University — Expected May 2018

- **Bachelor of Engineering (Co-op)** - Electrical and Biomedical Engineering
- **Awards**: Dean's Honour List, McMaster Entrance Award

Stanford University – Coursera — June 2017

- **Machine Learning**

Experience

Research Student — May – Aug 2016

Hospital for Sick Children (SickKids) — Toronto, ON

- Designed and implemented a **robotic etching system** for cranial remodelling using **Solidworks**
- Developed mathematical model to simulate entire system using **MATLAB/Simulink**
- Used **Arduino** to control **stepper/ DC motors** and interface with the control computer
- Added silicone **3D functionality** to existing 3D printer
- Project final presentation: *https://tinyurl.com/n6mpxcn*

Quality Assurance Analyst (Co-op) — May - Aug 2015

PointClickCare — Mississauga, ON

- Worked in a small **team** to write code for the tax letters functionalities on the PCC web application using **Java**
- Wrote automated **test scripts** to thoroughly test web application scenarios in **Java** using **Eclipse** and **SVN**
- Used **SQL** to access and modify databases
- Used **Jira** and **TestRail** to monitor task progress and ensure peak team efficiency

Relevant Projects

- Personal Website | *adityathakkar.github.io*
  - Website coded using HTML/CSS and Bootstrap Framework to make responsive pages
- Data Acquisition and Relay System | *Github Code*
  - Used Esduino to get voltage signal from a transducer, display it in real time using C and MATLAB
- Design of a Spinal Cord Neurostimulator for Rehabilitation | *Project Presentation*
  - Implantable device which stimulated the site of injury to aid in rehab

Leadership

- President - Bioengineering At McMaster Society (BEAMS) — Mar 2016 – April 2017
  - **Lead a team of 15 executives** to run events for biomedical engineering students at McMaster University
  - **Doubled student attendance** at all events through better outreach strategies and event planning