Abilarsh **Vijiananthan**

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Skills

Languages	Python, Java, C/C++, HTML, CSS, JavaScript, MATLAB
Tools and Programs	Git, Arduino, OpenCV, Android Studios, Inventor, Solidworks

Experience

Xerox Research Centre of Canada *Mississauga, Ontario*
ELECTRONICS PRINT LAB TECHNICIAN *Jul 2016 - Aug 2016*

- Prepared and tested substrates in the electronics print lab
- Recreated NFC Module in Solidworks for printing
- Optimized toolpaths to reduce print times by 20%
- Developed UI for capacitive touch interface using Arduino and C#

Projects

Boston Sidewalk Ratings (BostonHacks) *Boston, Massachusetts*
HTTPS://GITHUB.COM/ABILARSHVIJI/BOSTONHACKS2018 *Nov 2018*

- Gathered 400 images for training data by scraping Google Images using Python library
- Trained preliminary model using CustomVision.ai
- Tested model with images gathered from the Google StreetView API, running them through a model, and outputting the results to a webpage

GIGO Robotic Arm *Hamilton, Ontario*
ENGINEER 1P03 - FINAL PROJECT *(Video Attached)* *Sept 2017 - Dec 2017*

- Created 4 bar linkage arm to lift garbage cans for client who has cerebral palsy
- Utilized linear actuator, Arduino, joystick, and 3D printed components to develop arm

Employee Database Management System *Mississauga, Ontario*
HTTPS://GITHUB.COM/ABILARSHVIJI/EMPLOYEEDATABASE *Feb 2017 - May 2017*

- Developed database based upon hashtable to store various employee entries
- Created intuitive UI with NetBeans using the Swing API in Java

Extracurriculars

McMaster Baja Racing *Hamilton, Ontario*
DATA ACQUISITION TEAM *Sept 2017 - Apr 2018*

- Implemented and maintained sensors for the vehicle
- Worked on updating radio system between the driver and the pits

Team 4308: Absolute Robotics *Mississauga, Ontario*
VICE-PRESIDENT *Sept 2013 - Jun 2017*

- Managed FIRST Robotics team of 60 students
- Handled team budget of $20000 for robot and competition expenses
- Designed robot in Autodesk Inventor within a 6 week period
- Troubleshot software issues within the drivetrain using Java

Education

McMaster University *Hamilton, Ontario*
B.ENG IN ELECTRICAL ENGINEERING, 2ND YEAR *Sept 2017 - Present*

- Expected Graduation: Spring 2021

Online Courses
LYNDA.COM

- Audited courses on OpenCV, JavaScript, HTML, and CSS