

# Abilarsh Vijiananthan

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## Skills

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**Languages** Python, Java, HTML, CSS, JavaScript, MATLAB

**Tools and Programs** Git, Arduino, OpenCV, Inventor, Solidworks

## Experience

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### Xerox Research Centre of Canada

Mississauga, Ontario

ELECTRONICS PRINT LAB TECHNICIAN

July 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

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### 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](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

## Extracurriculars

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### McMaster Baja Racing

Hamilton, Ontario

DATA ACQUISITION TEAM

Sept 2017 - April 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 - June 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
- Troubleshoot software issues within the drivetrain using Java

## Education

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### McMaster University

Hamilton, Ontario

B.ENG IN ELECTRICAL ENGINEERING

Sept 2017 - Present

- Expected Graduation: Spring 2021

### Online Courses

LYNDA.COM

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