

# DEVANSH VAID

2A MECHATRONICS ENGINEERING – CAPTIVATED LEARNER – ASPIRING ENTREPRENEUR

## LANGUAGES

C++	AutoCAD
HTML	SolidWorks
CSS	Microsoft Office
JavaScript	Xcode
Git	Soldering
Arduino (C)	SouceTree
Visual Basic 6.0	BootStrap
Ruby (learning)	GitHub
Python (learning)	Terminal

## TOOLS



## EXPERIENCE



### ENTREPRENEUR IN TRAINING (EIT) - CONRAD CTR. (SUMMER 2015)

- ❖ Interned at two technology based start-ups (ThinkDirty and TurnKii)
- ❖ Attended UI-UX and Marketing workshops, while garnering experience with creating successful start-ups



### WEB DEVELOPMENT INTERN - TURNKII (EIT) (JUNE - AUGUST 2015)

- ❖ Front-End web development with HTML, CSS and JavaScript + jQuery alongside a Ruby On Rails platform
- ❖ Developed several responsive interfaces and webpages for TurnKii's service
  - Issue reporting and work order requests
  - Onboarding tour for new users and webpage for upcoming service
- ❖ Investigated SEO techniques such as landing pages and keyword optimization



### iOS SOFTWARE TESTER - THINKDIRTY® (EIT) (MAY - JUNE 2015)

- ❖ Implemented fixes for bugs and crashes using Objective-C and Xcode
- ❖ Programmed an Image to Text app using the Tesseract OCR framework
- ❖ Tested iOS app for bugs, crashes and (UI-UX) optimization
- ❖ Regularly used Git to initiate commits and pull-requests



## PROJECTS



### WHERE AM I - ARDUINO (ONGOING)

- ❖ Programming an Arduino Mega with passive infrared, temperature and ultrasonic sensors to detect human presence in an average sized room
- ❖ The data will subsequently be uploaded to a web server (Ethernet shield), allowing roommates to quickly know whether I am home



### PERSONAL WEBSITE (LANDING PAGE) - HTML + CSS (2015)

- ❖ Designed and implemented scalable vector graphics to optimize resources
- ❖ Proficient in applying HTML, CSS and JavaScript to create responsive and fluid webpages through work and personal experience
- ❖ Implemented SEO strategies to increase the PageRank of the webpage



### AUTONOMOUS GRAB AND RETRIEVE ROBOT - C (NOVEMBER 2014)

- ❖ Designed and programmed an autonomous Lego Mindstorms robot while implementing the use of various sensors and 3D printed components
- ❖ Hypothesized and evaluated various Mechanical design implementations to optimize sensor attachment, chassis design and object detection. (Group of 4)



### HYDROGEN FUEL CELL CAR - C (NOVEMBER 2014)

- ❖ Programmed and debugged a line-following Hydrogen Fuel cell car using C++ while ensuring efficient power consumption
- ❖ Hardware: MSP430 microcontroller and motor controllers

## ONGOING VENTURES



### HEXACOPTER (DRONE)

Built a custom hexacopter using open source flight software.

**Next Step:** Programming the drone to accomplish various tasks

### ARDUINO

Constructed several circuits and sub-projects with various components. Strong experience with soldering. Familiar with Arduino language and hardware (shields, actuators).

## COURSE EXPERIENCE



Object Oriented Programming C++ ❖  
Oscilloscope + Multimeters ❖  
PLC + FPGA + Microcomputers ❖  
(current term)

## EDUCATION



### UNIVERSITY OF WATERLOO

Honours Mechatronics Engineering  
Class of 2019

### GLENFOREST SECONDARY

International Baccalaureate  
96% average  
Higher Level Math and Economics