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# DEVANSH VAID

2A MECHATRONICS ENGINEERING – CAPTIVATED LEARNER – ASPIRING ENTREPRENEUR

## LANGUAGES

C++
HTML
CSS
JavaScript
Git
Arduino (C)
Visual Basic 6.0
Ruby (learning)
Python (learning)

## TOOLS

AutoCAD
SolidWorks
Microsoft Office
Xcode
Soldering
SouceTree
BootStrap
GitHub
Terminal

## 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

## 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