Devansh Vaid

Mechatronics Engineering | ID# 20569300

5015 Northern Lights Mississauga, Ontario, L5R 2P7 d2vaid@uwaterloo.ca github.com/devanshv (647)-896-7473

Skills

OPERATING SYSTEMS: Mac OS X, Windows 7, Windows 8, Android, iOS

PROGRAMMING SKILLS: C++, Visual Basic 6.0, HTML, CSS, jQuery, familiar with the Arduino Language

SOFTWARE: AutoCAD, SolidWorks, Microsoft Office (Word, Excel, PowerPoint)

TOOLS: Xcode, DEV C++, SouceTree, BootStrap

OTHER: PLC and Ladder Logic

CHARACTERISTICS AND ATTRIBUTES

- Exceptional communication and problem solving skills developed through volunteer experience with Alzheimer's patients and instructing swimming classes for various ages
- Self-driven to expand engineering knowledge and skills as demonstrated through personal projects
- Strong team work skills exhibited through participation in various successful team projects and executive teams for extracurricular clubs

Work Experience

iOS Software Tester, ThinkDirty® Shop Clean, Toronto

May 2015 - June 2015

- Tested iOS app for bugs, potential areas for improvements and helped locate crashes
- Programmed fixes for bugs and crashes using Objective-C and Xcode
- Regularly used GitHub and SourceTree to initiate pull requests and commits

Systems Maintenance, AutoHub, Hamilton

May 2013 - September 2014

- Installed and set-up computers, Wi-Fi, cloud storage and various computer programs
- Updated inventory information on website and offered regular technical support

YouTube Instructional Video

August 2012

- Created and monetized instructional video on YouTube, receiving over 80,000 views
- Attained positive feedback while continuing to support and guide viewers

Personal Projects and Hobbies

Resistance Calculator App, iOS (Swift/Objective-C)



April 2015-

- Currently programming an iPhone 5 application designed to determine the resistance from resistor coloured stripes. (Interface available on GitHub, the full app is in-progress)
- Learning the Swift and Objective-C language through books and online tutorials. Programmed a 100 Facts app that displayed a new fact after a button press

Arduino Autonomous Robot and other projects

March 2014-

- Designed and constructed various breadboard circuits with the Arduino micro-controllers
- Experience with several soldering projects such as motor shield kits
- Familiar with the use of basic electric components through self-initiated exploration
- Currently designing and programming an autonomous Arduino robot

PinBall Game, Visual Basic 6.0



2012

- Problem solved various challenges such as accurate paddle function and collision detection
- Evaluated and implemented several revisions to constantly improve the program

Relevant Course Projects and Training

Autonomous Lego Grab and Retrieve Robot, Mechatronics, C-Based Language No.



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

Hydrogen Fuel Cell Car, Mechatronics

November 2014

 Programmed and debugged a line-following Hydrogen Fuel cell car using C++ while ensuring efficient power consumption

Freehand Sketches, Graphics and Design

September 2014 - November 2014

• Freehand sketched various objects containing orthographic projections, isometric views, continuous and baseline dimensioning, different line types and helices

Engine Dissection Lab, Mechatronics

October 2014

- Disassembled and reassembled an engine while observing the functions of various components
- Derived the torque, horsepower and efficiency of the engine from a Dyno Chart

Education & Professional Development

Candidate for Bachelors in Applied Sciences (BASc) in Mechatronics Engineering

September 2014-

International Baccalaureate (IB) Diploma, Glenforest Secondary School

September 2010 - July 2014

• Achieved final average of 96%; Honour student throughout high-school

President's Scholarship of Distinction, University of Waterloo, Ontario

July 2014

Awarded for holding an admission average above 95%

2012-2013 Diversicare Volunteer of the Year

June 2013

- Presented for ongoing dedication as a volunteer at the Evergreen Retirement Community.
- · Interacted weekly with Alzheimer's patients and involved them in various activities

Volunteer Experience

Volunteer, Evergreen Retirement Community, Mississauga, Ontario

January 2012 - July 2014

- Helped elders with Alzheimer's disease get involved in activities such as Bingo and Word Games
- Regularly helped out at events such as Easter, Valentines Day and Christmas celebrations

PLASP, Mississauga, Ontario

November 2012 - May 2014

- Volunteered for after-school childcare program with children from Grades 1-5
- · Initiated activities and motivated children to be involved, while resolving disputes and ensuring safety

Extracurricular Activities

Head of Activities, Social Justice Action Committee, Mississauga, Ontario September 2012 - July 2014

- Worked cooperatively with an Executive team to plan and organize charitable events
- Focused on the issues of inequality evident in children with physical and mental disabilities
- Organized fundraisers and community events to spread awareness

Hobbies and Interests: Stock Market, Swimming, Astronomy and Astrophotography