Aditya Sanghi

Contact

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Education and Relevant Courses

Bachelor of Applied science in Electrical and Computer Engineering (Honors)   **2010-2014**

Queen's University, Kingston, Canada

Demonstrated the ability to thrive academically at University through my high academic standing, scholarships and awards.

- Class of 2014
- GPA - 3.93
- Dean Scholar: The Dean's Scholar award is a prestigious honour given to a select group of academic high achievers
- Ho Ming Tai Scholarship: This scholarship is awarded to the international student of the highest academic standing in the entire Electrical Engineering faculty (3 Years)

Professional Experience

Software Developer (Associate), TD Securities   **Summer 2013 & August 2014- Current**

- Designed a framework involving Java and MXML exchange to fix a production issue regarding OTC trades not being properly booked in Murex
- Programmed procedures in UNIX and windows (bat scripting) environment to automate the deployment as well as regression processes according to the audit requirement.
- Implementing a java based Web framework to decrease the number of requests required to get access to servers as well as applications

ELEC 490: Electrical Engineering Project   **September 2013 – April 2014**

- Designed and constructed a robot for the application of providing vision and general data of the surrounding
- Programmed application in Visual Studio for object avoidance and object recognition using a Kinect
- Implemented many sensors and actuators on the robot such as magnetic compass, encoder and motor controller

Key Skills and Projects

Computer and Software Development

- JavaScript: Used JavaScript (MEAN stack) to implement http://helpkisaan.com/
- MATLAB: Implemented a stock predicting application using Fourier transform
- JAVA: implemented an random image displayer application with many cool functionalities and currently implementing application using JAVA as a backend for a web application
- C#, EmguCV (OpenCV functions): Implemented an object recognition program for object avoidance
- C: Implemented a simple messaging application between two Altera DE0 boards
- Batch and Unix Scripting: Automated a process of weekly data drops to the murex server according to audit requirements

Hardware and Communication Engineering

- Arduino: Worked on several Arduino projects. Notable ones:
  - Used as a microcontroller for a robot which was used to displaying images and get data of the surroundings
  - Innovated a game which revolves around battling robots using different sensors and actuators
  - Implemented a RFID based system to detect if the tag is correct and also provide a warning system if not
- Kinect: Programmed several applications using Kinect to display, detect and recognize objects
- Digital Signal Processing: designed several digital filters to manipulate audio and image files

Other Relevant Skills

- Strong communication skills and team dynamics developed through professional development courses undertaken at Queen's University
- Wide exposure to various cultures, ideologies and communities due to extensive travel throughout the world