

Imaad Umar

SYSTEMS DESIGN ENGINEERING, 2016
University of Waterloo

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Computer Vision | Machine Intelligence | Electronics | People

SOFTWARE

Python
OpenCV
NumPy
MATLAB
C#
C++
Linux, OSX, Windows

Canon Inc. Innovation Lab, Kitchener, Ontario **Software Developer/UXUI**

Sep'14 -
Apr'15

Interim technical lead
Multiple software and hardware prototypes
Image processing using OpenCV
Electronics projects involving programming Intel Edison boards
Full Stack Web Development

ELECTRONICS

Arduino
Intel Edison
Raspberry Pi

COM DEV Space Intl, Cambridge, Ontario **Software Developer**

Sep'13 -
Dec'13

Created software used by entire manufacturing team
C# Windows applications interfacing with SQL database

EDUCATION

University of Waterloo
BASc
Systems Design Eng.
Class of 2016

University of Waterloo, Waterloo, Ontario **Department of Engineering** **Research Assistant**

Jan'13 -
Apr'13

C# engine to forecast emergency room wait times
Translated MATLAB code to C#

Flow Consulting Group, Vancouver, B.C. **Mechanical Engineering Student**

May'12 -
Aug'12

Data analysis on server cooling energy use and mitigation

PROJECTS

Emotion Detection Through Speech

Neural Network system that can identify users emotional state by analyzing pitch from speech samples.

Haptic

Programmable touch and display surface with vertically moving "pixels"

Hephaestech Corp.

Student consulting firm focusing on automation and manufacturing projects