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

ELECTRONICS
Arduino
Intel Edison
Raspberry Pi

EDUCATION
University of Waterloo
BASc
Systems Design Eng.
Class of 2016

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 programing Intel Edison boards
Full Stack Web Development

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

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.

Tech: MATLAB

Haptic

Programmable touch and display surface with vertically moving "pixels"

Tech: Arduino, Electronics

Hephaestech Corp.

Student consulting firm focusing on automation and manufacturing projects

Tech: Arduino, Rasp Pi, Image Processing, Machining

Machine Shop Sign In

Software to streamline student sign in procedure. Adds machine waitlist with email notifications feature. Enables data collection and analysis.

Tech: C#, SQL