Roxana Velazquez

Software Developer

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Skills

Java, MySQL, Spring, JavaScript, jQuery, C, C++, Matlab, LabView, CSS, Bootstrap, HTML, System Verilog

Education

Full Stack Web Developer
Codeup, San Antonio, Texas
Mar 2017 - Jul 2017

M.Sc. Electrical Engineering
CINVESTAV, Guadalajara, Mexico
Sept 2014 - Aug 2016

M.Sc. Electronic Systems Design
Microelectronics Research Center, Havana, Cuba
Sept 2011 - Jun 2014

B.Sc. Automation Engineering
Havana University of Technology Jose A. Echeverria, Cuba
Sept 2005 - Jul 2010

Volunteer Experience

Teacher's Assistant,
Havana University of Technology Jose A. Echeverria, Cuba
Sept 2006 - Dec 2009

Taught Calculus and provided assistance to students in C/C++ labs.

Awards

Coding Challenge - First Place
Geekdom Event Center
May 2017

Languages

English
Spanish

Projects

Get it *(2017)*: Built a full-stack web application where, users can create shareable groceries shopping lists picking from 100's of built-in items from 10 categories, scan a barcode using a webcam and create their own items. Users can also save recipes to the app, and then import those ingredients to any existing grocery list.

AdLister *(2017)*: Created a responsive web-based application where, users can create and post ads for selling musical instruments. Built using Java, MySQL, JavaScript, jQuery, CSS and Bootstrap.

Computer vision system for vehicle detection, tracking and classification *(2016)*: Implemented a vision based system which can run in real time and is able to classify vehicles with accuracy above 96%. Built using Matlab and algorithms such as Gaussian Mixture Model and Kalman Filter.

Single-cycle MIPS processor *(2105)*: Developed a MIPS-based instruction set that supports arithmetic, data transfer and control operations. The design was implemented on Altera DE2-115 Board and using Altera Quartus II software.

Firmware development for a traffic light controller *(2010)*: Developed firmware for a traffic light controller which is a module of the Intelligent Transportation System of Cuba. The software was implemented using PCWH IDE Compiler and the hardware was designed using Proteus Design Suite EDA.

Experience

Development Engineer, Telecommunications Company of Cuba
May 2013 - Aug 2014

- Developed software for network traffic control.
- Designed plans for expansion and modernization of telecommunication networks.

Communication Systems Specialist, Historian´s Office, Cuba
Sept 2010 - Apr 2013

- Developed projects for intrusion alarm systems, fire control systems, structured cabling systems and front-end television systems.

Publications

- Implementation and Performance Analysis of a Radix-2 Decimation in Time FFT/IFFT. SOMI XXX, Instrumentation Congress. Durango, Mexico. October 2015.
- Characterization of Passive Filters using Virtual Instrumentation. RIELAC Magazine, Vol XXXV, ISSN 1815-5928. Jun 2014.