

Richard A. Macias

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Objective

Seeking a position within a company that will help lead me to becoming a specialized engineer dealing with Android mobile application and web design. I'm looking to enroll in a Master's degree in the near future.

Education

University of Central Florida

Bachelor of Electrical Engineering

Overall GPA: 3.803 UCF GPA 3.69

Orlando, FL

December 2014

Relevant Coursework:

Digital systems, Electromagnetic Fields, Semiconductors, Electronics 2, Digital Signal Processing, Embedded Systems, HDL Verilog, Computer architecture, Intro to Optics, and Linear controls.

State College of Florida

A.A. degree

Venice, FL

May 2012

Skills

Currently learning and making apps for Android.

Self Taught C++/JAVA and Object Orientation.

Experience in the C language, and assembly with Ti microcontroller MSP430.

Experience in Verilog language and Basys2 FPGA, Cyclone II, and DE2 eval board.

Familiar with general architectures of CPUs.

Soldering experience with circuit boards.

Experience with measuring tools from labs in class and work, such as oscilloscopes, etc.

Used both Xilinx IDE, Quartus II IDE, Visual Studio IDE, and Code Composer.

Proficient with Microsoft Powerpoint, Word, and Excel.

Project Experience

Senior Design:

Created a system located in a classroom that will scan seats and update a seating chart application for the android phones. The PIXY camera, MSP430, servo motors, and mySQL were used for this project.

Drawing Request Website:

Created a website for Amped I LLC using HTML, PHP, MYSQL database, and MAMP. The website uses a form and uploads an excel document for drawing request. Two employees outside the company can view these requests in a list and have access to download the files and move requests into an archive for everyone to view.

Work Experience

Amped I LLC

Chicago, IL
April 2015- Present

Engineer

Designing and updating schematics for new equipment on power substations.
Learning the basic principles of protection and control designs for high power designs.
Walking down substations and documenting information relative to the scope of work.
Communicating with clients and co-workers on technical issues and schedules.

St John's Optical Systems

Sanford, FL
December 2013-April 2015

Intern

Knowledge of Cameras, lasers, and image intensifiers.
Field-work and testing experience with a senior engineer.
Soldering, use of Oscilloscope, and function generator.
Created a few Gui's in Visual Basic.
Ordering parts using requisitions.
Experience creating PCB's using Altium and Eagle.
Designing Presentations for team meetings.
Some experience with a DSP eval board from T.I. using assembly language.
Conducting research in the parts and previous projects done in the past.

University of Central Florida

Orlando, FL
May 2013-Dec 2013

Research Assistant with Donald Malocha in RF SAW devices.

Coding in MATLAB. Mostly on Graphical User interfaces.
Experience in lab with soldering and network analyzers.
Experience in clean room using an E-Beam, cleaning Wafers, using measuring probes, microscopes and furnaces.
Using Excel for Orders on parts and making reports on powerpoint and Microsoft word.

State College of Florida

Venice, FL
August 2011- May 2012

Math Tutor

Taught math related problems to students, and adapted to students' learning processes.