**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 Digital Design and Field Programmable Gate Arrays. Looking to obtain a Master's degree in the future.

**Education**

**University of Central Florida**  Orlando, FL

Bachelor of Electrical Engineering December 2014

Overall GPA: 3.803 UCF GPA 3.69

**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** Venice, FL

A.A. degree May 2012

**Skills**

Proficient with Microsoft Powerpoint, Word, and Excel.

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.

Self Taught C++

**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.

**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

*Intern* December 2013-April 2015

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

*Research Assistant* with Donald Malocha in RF SAW devices. May 2013-Dec 2013

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

*Math Tutor* August 2011- May 2012

Taught math related problems to students, and adapted to students’ learning processes

Answered phones and wrote messages for the supervisor.

Helped students with computer issues, such as printing, internet, Microsoft word and powerpoint.