**Sergio Morales**

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# **EDUCATION**

UNIVERSITY OF CALIFORNIA, RIVERSIDE Riverside, CA

Bachelor of Science Degree, **Computer Engineering**  Graduated, June 2015

Chancellor’s Honor List Major GPA: 3.4/4.0 Overall GPA: 3.2/4.0

**SOFTWARE**

MATLAB Eagle PCB Android Studio PSpice Xilinx ISE

Atmel Studio Xcode 6.1 Cadence Maya Autodesk Altera Quartus II

**PROGRAMMING & TECHNICAL SKILLS**

C (2+ years in Embedded Sys.) C++ (3+ year experience) Java (Android Development)

Python (Networks/Algorithms) HTML/CSS & JavaScript (3+ years) VHDL/Verilog (FPGAs)

ObjectiveC (iOS Development) PowerShell (Windows Scripting) Assembly (6502/MIPS Programs)

GNU/Linux Shell MS Group Policy & Servers Breadboard Prototyping

Circuit Analysis Logic Design Computer Architecture

Fluent in Spanish and English

# **PROFESSIONAL EXPERIENCE**

**IT Student Worker –** June 2013– June 2014

Department of Information Technology, UC Riverside Extension

Assisted the department in implementing automation of software through scripting in PowerShell and aided in improving workflow of staff by troubleshooting through helpdesk tickets. Responsibilities included hardware setup and installation, with network routing and cable management for labs.

**PROJECTS**

Integrated Appliance System (IAS) September 2013 – June 2015

Second place awarded in SMI’s Design & Manufacturing Contest, and winner of UCR’s Sustainability Fellowship Award. In charge of implementing microcontrollers and circuits that utilize feedback control to actuate the appliances in a way that allows the end user of the IAS to monitor the temperature, humidity, and energy usage.

Nintendo Entertainment System FPGA Emulator Summer Study Abroad 2014 – Lausanne, Switzerland

Implemented an NMOS 6502 microprocessor in C; using Altera’s Nios II processor IP core. Worked in a team of five and utilized Git to establish a stable version of the project that rendered images using Verilog.

UCR Chatline – An iOS Social Media App for UCR September 2014 – December 2014

Created an iOS phone app that allows the users to group chat, video call, post status updates, and add users as friends. Worked in a team of four using Git for version control, Parse API for backend, and Xcode 6.1 environment to produce a working app for our Software Engineering course.

# **AFFILIATIONS**

Society of Hispanic Professional Engineers (SHPE) September 2012 – Present

Webmaster & Internal Affairs

Took charge of establishing and maintaining connections with any organizations and alumni within UCR. Also lead a team of members in providing a website for the organization, hosted on the school’s servers.

Institute of Electronics & Electrical Engineers (IEEE) – General Member

Association for Computing Machinery (ACM) – General Member

# **AWARDS**

Xerox Scholarship 2013 Recipient CIS Microsoft Presentation Media Certification

Affiliates of UCR Scholarship 2014 Recipient Startup Engineering Certification (Coursera, Inc)

UCR Summer Study Abroad Scholarship 2014 Recipient