

# SERGIO MORALES

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## EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE	Riverside, CA
Bachelor of Science Degree, <b>Computer Engineering</b>	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 2015

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 ATmega 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 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. Recipient of Most Outstanding Mentor of the Year award.

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

**Association for Computing Machinery (ACM)** – General Member

## AWARDS & CERTIFICATIONS

Xerox Scholarship 2013 Recipient	UCR Summer Study Abroad Scholarship 2014 Recipient
Affiliates of UCR Scholarship 2014 Recipient	Startup Engineering Certification (Coursera, Inc)