Justin Michael Cano

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EDUCATION

Computer Engineering, B.S. *June 2014 (Projected)*
University of California, Riverside, *Riverside, CA*
High School Diploma *June 2009*
Archbishop Riordan High School, *San Francisco, CA*

TECHNICAL SKILLS

- Proficient in many leading programming languages, including C/C++, Java, Python, HTML, and PHP
- Experienced in Object Oriented Programming
- UNIX Administration (Ubuntu and Mac), including user commands, file processing, and installing the LAMPP stack
- Server/client socket programming (example code can be found in my BitBucket Software Construction repository)
- Novice iOS application developer

LEADERSHIP POSITIONS

Executive Board Member (New Member Liaison), *Zeta Phi Rho Fraternity, Theta Chapter* *Sept 2012-Feb 2013*
UC Riverside
Responsibilities include:

- Being the main instructor and mentor for new potential members
- Schedule and oversee all new member events
- Work diligently with all other officers to ensure a smooth transition of new members to become active members

WORK EXPERIENCE

Software Engineer Intern, *JetHead Development* *June 2013-Sept 2013*
San Diego, CA
Responsibilities include:

- Software development in C++ for Set-Top-Box integration services involving sophisticated middleware solutions
- Debugged the company's RVU client application; Issue tracking communication through JIRA
- Worked with Broadcom embedded systems
- 'Board Bring Up', including powering up, mounting, and flashing the board using SSH and/or serial communication

PROJECTS

Intermediate Embedded and Real-Time Systems Final Project:

Home Automation System w/ Smart Alarm Clock

Using a variety of electronic components, I emulated a home automation system with an alarm clock that doesn't turn off unless it detects movement. The home automation system includes a pass code door lock and drape control system. This project was made possible with an ATmega1286 microprocessor coded entirely in C using the AVR Studio IDE. A Google Doc link to the source and video demonstration is provided for more information: https://drive.google.com/folderview?id=0B-_AI2C_nEwvTmwxY05uWjVzeHM&usp=sharing

Senior Design Project in Electrical Engineering:

Learning Thermostat (Nest Emulation)

The topic of study for my Senior Design in Electrical Engineering is the Nest Learning Thermostat. Working as a team of two, our goal is to create a system that behaves much like the Nest does: it learns its user's indoor temperature preferences and automatically sets the temperature on the thermostat. The hardware components includes a Raspberry Pi as our Nest connecting to Arduino implemented temperature and motion sensors through serial communication using an XBee standard. The user interacts with the Raspberry Pi, and in turn, the Pi processes logic to learn the user's schedule and preferred temperature. This is 20 week project is still a work in progress; documentation is not yet available.

PUBLIC REPOSITORIES & LINKEDIN PROFILE

GitHub (used for personal projects) **–** http://www.github.com/jcvno
BitBucket (used for academic projects) – http://www.bitbucket.com/jcano001
LinkedIn Profile – http://www.linkedin.com/in/justincano