

# Justin Michael Cano

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## EDUCATION

### Computer Engineering, B.S.

University of California, Riverside, *Riverside, CA*

*June 2014 (Projected)*

### High School Diploma

Archbishop Riordan High School, *San Francisco, CA*

*June 2009*

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## TECHNICAL SKILLS

- Extensive knowledge of PC systems and architecture
- Familiar with Windows, Mac, and Linux environments
- Fluent in many leading programming languages, including C/C++, Java, Python, HTML, and PHP
- UNIX Administration
- Troubleshooting and debugging

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## QUALIFICATIONS

- Microsoft Office proficiency
- Experienced in OOP
- Skilled at learning new concepts quickly, working well under pressure, and communicating ideas clearly and effectively
- Enthusiastic about learning new things and meeting new people
- Able to change focus from one task to another quickly and efficiently
- Experience in working a real-world working environment as a Software Engineer Intern at JetHead Development

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## WORK EXPERIENCE

### JetHead Development

*June 2013-Sept 2013*

*San Diego, CA*

Responsibilities include, but are not limited to:

- Software development in C++ for Set-Top-Box integration services involving sophisticated middleware solutions
- Debugging of the company's application code
- Working with Linux embedded systems
- 'Board Bring Up', including powering up, mounting, and flashing the board using SSH and/or serial communication

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## PROJECTS

### Intermediate Embedded and Real-Time Systems Final Project:

#### Home Automation System w/ Smart Alarm Clock

Using a variety of electronic components, I have 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](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.

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## PUBLIC REPOSITORIES

**GitHub** (used for personal projects) - <http://www.github.com/jcvno>

**BitBucket** (used for academic projects) - <http://www.bitbucket.com/jcano001>