Jaime Rodriguez

1604 SW Clay St Apt 118

jaime4@pdx.edu

971-239-2485

Dear HR Person,

I am currently studying at Portland State, finishing up my undergraduate in

Electrical Engineering. As this is my last year, my financial aid has been drying up so I am in

need of extra support; this is the reason why I am looking for a part time job. During my

education I have had the pleasure of working a variety of different jobs, but I have always

been noted for my strong work ethic and resourcefulness, combined with the ability to

communicate clearly and professionally I believe that I am a great candidate for this position. Some of my electronic interests include analog design, amplifiers, and microcontrollers I also enjoy learning guitar and drawing in my spare time. I look forward to getting in contact with you soon.

Thank You,

Jaime Rodriguez

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*1604 SW Clay St. Apt.118 Portland, OR 97201 • (971)- 239-2485 •* [*jaime4@pdx.edu*](mailto:jaime4@pdx.edu)

I am a dynamic professional with a strong work ethic, pursuing my degree in Electrical Engineering. A few attributes that describe me include: great analytical abilities, with a clear understanding of the Hardware Development Process. A quick learner with excellent problem solving skills, I have the ability to work efficiently and pay attention to detail.

**Education**

Bachelor of Science in **Electrical Engineering**

**Portland State University,**

Graduation**: Winter 2016** Class Level: **Senior** GPA: **3.3**

**Relevant Coursework:**

Analog IC Design, Digital Systems Series (I, II), Electric Circuit Analysis Series (I, II, & III), Electromagnetics Series (I, II), Electronics Series (I, II), Microprocessors, Signals Processing and theory, Engineering Computation, Engineering Programming (C, MATLAB), and Technical Writing.

**Engineering Projects**

**Serial To USB Layout** Summer 2014

* The purpose of this project was to take an existing product and redesign the circuit and PCB to communicate using a standard USB connection instead of the current serial connection.
* This was achieved using signal converting ICs, and a simple circuit to create a working prototype.
* The prototype was then used to redesign the products schematic and PCB.

**Real Time Spectrogram** Winter 2014

* Designed a real time spectrogram to visually analyze signals at certain bandwidth
* The data acquisition tool used, the Labjack was connected and communicated to the host computer with use of Matlab, which we used to create a simple to use guided user interface.
* Exceeded project expectations by: incorporating may user selectable features (time, frequency and sample rate).

**Audio Equalizer** Spring 2013

* Designed and built an audio equalizer using standard components
* Equalizer consisted of three stages: filter stage, summing stage, and amplification stage
* Low pass, high pass, and band-pass filters were used to control bass, treble, and midrange
* Equalizer was extensively tested and tuned to eliminate noise
* Exceeded project expectations by: creating refined prototype with soldered connections with portable cased speaker.

**Sensor guided Servo** Spring 2012

* Designed a servo with a gear and photodiode attached that was capable of following a light source.
* The project was done in visual C, using a host computer to control servo.
* To exceed project expectations this was turned into a game, having a character on screen avoid falling debris being controlled by the light source.

**Wheel of Fortune** Winter Quarter 2011

* Created interactive Wheel of Fortune game by interfacing a Lab Jack with MATLAB
* Designed program using a modular approach which made testing and delegation of tasks easier
* Exceeded project expectations by creating actual spinning wheel that the program interacted with.

**Skills**

**Computer Programming Languages:** C, Matlab, and Assembly.

**Hardware Description Languages:** Verilog.

**Circuit CAD tools:** LTSpice, ModelSim, PADS, EAGLE.

**Operating Systems:** Windows 7, Linux/Unix, and OS.

**Laboratory:** Environmental Chambers, DVMs, Oscilloscopes, Logic Analyzer, Spectrogram Analyzer, SMT soldering.

**Personal:** Bilingual (fluent Spanish).

**Experience**

**Hardware Engineer –** Supra. Salem, OR.Summer 2014

* Created and executed test plans to validate products (hardware, firmware and software).
* Ensure the execution of testing and test plans are completed with the highest level of quality.
* Provided critical analysis and test result summaries.
* Documented performance data and use statistical data analysis techniques to summarize results.
* Participated in test strategy discussions, developing test methodologies, plans & test cases to ensure system performance metrics meet product specifications.

**Unwired Tech – Salem, OR** 02/14 – 09/14

* Title - Technician.
* Troubleshoot and performed repairs on consumer electronics
* Interact with customers, making sales while treating and caring for customers with respect.
* General duties maintaining shop and keeping it orderly.
* (503)-841-0490

**Hotel Modera – Portland, OR** 06/13 – 11/13

* Title – Night Auditor.
* Worked night shift handling the duties of the front desk reception.
* Ran the night audit, double-checking all balances before finalizing and settling charges.
* Worked as Valet and prepared the hotel for morning arrivals.
* (503) 484-1084

**Wireless Tech – Portland, OR** 9/11 – 06/13

* Title – Store Technician.
* In charge of evaluating and repairing cell phones, computers and electrical devices.
* Manage and order inventory and deal with customers.
* General duties maintaining shop and keeping it orderly.
* (503) 288-3279

**References**

Adam Purdue Dean Sinn

Lead Sr. Electronic Design Engineer Sr. Electrical Eng.

**Supra Supra**

[adam.purdue@fs.utc.com](mailto:adam.purdue@fs.utc.com" \t "_blank)  [Dean.sinn@fs.utc.com](mailto:Dean.sinn@fs.utc.com)

[503.881.4983](tel:503.881.4983" \t "_blank) [503.375.0412](tel:503.881.4983" \t "_blank)