

Jaime Rodriguez  
1604 SW Clay St Apt 118  
[jaime4@pdx.edu](mailto: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,

A handwritten signature in black ink that reads "Jaime Rodriguez". The script is fluid and cursive, with the first letters of each word being capitalized and larger than the rest of the letters.

Jaime Rodriguez

## Jaime Rodriguez

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 many 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  
Lead Sr. Electronic Design Engineer  
**Supra**  
adam.purdue@fs.utc.com  
503.881.4983

Dean Sinn  
Sr. Electrical Eng.  
**Supra**  
Dean.sinn@fs.utc.com  
503.375.0412

