Jaime Rodriguez
1604 SW Clay St Apt 118
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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

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
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