

Venz Burgos

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Summary

Highly motivated Electrical Engineering student (depth in computer system designs) with solid leadership, listening, and communication skills actively seeking Full-Time internships consisting of hardware analysis and programming. I am working on getting FE certification to become a Professional licensed engineer.

Highlights

- Software (EAGLECAD, KiCAD, VSCODE, AUTOCAD, Quartus/Modelsim, 3D Printing)
- Computer Programming (JavaScript, Python, HTML, CSS, Node.js, MySQL, MATLAB, C++)
- Building Circuits, Circuit Analysis, PCB Design, Multimeters, Wave Generators, Oscilloscopes, Breadboards, FPGA Design
- Understanding of lab environments and how to work with instruments and soldering electrical components

Education

University of California, San Diego | Jacobs School of Engineering

La Jolla, CA

Bachelor of Electrical Engineering

Sept. 20, 2020 - Present

- **Relevant Coursework:** Calculus, Physics, Engineering Computation, Intro to Digital Design, Intro to Analog Design, Circuits and Systems, Physics Electricity and Magnetism, Product Engineering, Advanced Digital Design, Linear Electronic Systems, Engineering Probabilities

Udemy

Online

Working on Certification

Jan. 2022 - Present

- **Relevant Coursework:** Complete JavaScript Course, Python Programming Masterclass, Java Programming Masterclass, Building Websites with HTML and CSS, Unreal Engine C++, PCB Design with KiCad and Altium

Technical Experience

Electrical Engineering Labs

San Diego, CA

- Testing components, measuring voltages/current, working with oscilloscopes, power supplies, multimeters, wave generators, and building circuits with resistors and capacitors. Building robots that sense light to follow trails

IEEE Quarterly Projects

San Diego, CA

- Design projects with a team of engineers, utilizing communication skills, starting from scratch, and spending 10+ hours a week over the course of 10 weeks.

Product Engineering

San Diego, CA

Product Development

- Develop a proximity chat for Automotives utilizing microcontrollers, Bluetooth Low Energy, sound sensors, and software application to detect geographic data to connect users. 20+ hours per week, developing a product as well as managing business aspects of the product market. Hardware/Software development with a team of engineers.

Hardware and Software Design

San Diego, CA

Product Development

- Designed a force-measuring device utilizing physics/engineering understanding to produce a device for a customer. Practiced business and engineering aspects of product development to create a working device. Interfaced sensors such as accelerometers with microcontrollers to create a force sensor for boxing, to measure the force output of an athlete.

Project Car (Stereo and Light System)

Hobby

- Learning about automotive stereo systems and electrical wiring. Reading diagrams to connect wires and understanding how to work with voltages to supply amplifiers. Optimizing positions for amplified aftermarket antennas to remove noise in weak FM and AM signals. Understanding electrical diagrams to wire and using ceramic resistors to properly set up light systems.