Electrical Sample

CLICK HERE FOR THIS FORMAT

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Education

University of Portland, Portland, OR — May 2026
Bachelor of Science, Electrical Engineering — GPA: 3.22

Skills & Interests

Technical Skills: Verilog, Assembly, Java, C++, C, Python, B2Spice, Eagle, Fusion 360, Circuit Analysis, Signals and Systems
Interests: Running, weightlifting, working on personal projects (i.e. temp alert system)

Academic Experience

Verilog Digital Systems Modeling — August 2024 – December 2024

- Acquired proficiency in hierarchical modeling methodologies, utilizing Verilog HDL for developing complex digital hardware designs.
- Practiced gate-level, data flow, and behavioral modeling to create modular and reusable designs.
- Improved system efficiency and reliability through rigorous simulation and testing.
- Collaborated on projects with team to design, and simulate digital circuits, emphasizing communication and coordination skills.

Embedded Systems Design — August 2023 – December 2023

- Developed initial knowledge of microcontroller instruction set architecture, including assembly language programming, processor-to-memory interfacing, and I/O device integration.
- Designed and implemented a microcontroller-based embedded system, incorporating timers, interrupts, UART/I2C serial communication, and analog-to-digital converters.
- Gained experience configuring hardware and software interfaces to optimize system performance and reliability under resource constraints.
- Applied systematic debugging techniques to troubleshoot and resolve issues in embedded systems, enhancing their stability and effectiveness.

Related Experience

Student Worker, Barnes & Nobel Campus Bookstore, Portland, OR — January 2022 - Present

- Provide helpful and friendly customer service, assist students with textbook purchases and school supplies during busy times including the start of the semester.
- Process an average of 50 transactions per shift with accuracy, helping maintain smooth operations during peak hours.
- Use point-of-sale systems and inventory software to handle sales and restocking.

Temperature Alert Project, Independent Project, Portland, OR — Summer 2024

- Designed and implemented a temperature monitoring system using a microcontroller and LED indicators to display temperature levels and trigger alerts when a threshold was exceeded.
- Programmed the microcontroller to process sensor data and control LEDs based on predefined temperature limits, ensuring accurate and reliable system behavior.
- Built and tested the circuit on a breadboard, troubleshooting wiring and code to optimize performance and minimize power consumption.

Additional Experience

Member, IEEE, University of Portland Chapter — January 2023 – Present
Member, University of Portland Robotics Club — January 2022 – Present
Mentor, High School Robotics Team, Sacramento, CA — September 2022 – June 2024