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EDUCATION

• University of Illinois

Electrical Hardware Engineer

Champaign, IL

Bachelor of Science Major in Computer Engineering; Minor in East Language and Culture

August 2024

EXPERIENCE

• Antunes (C++)

Carol Stream, IL

Mar 2025 - Present

- Hardware Design: Develop, prototype, and optimize analog, digital, and microprocessor-based circuit boards using Altium Designer, MPLAB, and STM32Cube for products used in the food industry.
- Troubleshooting & Manufacturing Support: Diagnose and resolve manufacturing product assembly and test procedure issues, ensuring seamless post-production support and product improvements.
- o Testing & Compliance: Conduct verification and validation testing, create test plans, and collaborate with engineering teams for new product development and compliance coordination.

• Beckman Institute for Advanced Science and Technology

Urbana, IL

IT Support

Jun 2022 - May 2024

- o Diagnostics: Responded to user tickets and resolved hardware, software, and server-related issues for biomedical apparatus and researchers.
- Illinois Space Tech Academy (JavaScript, HTML/CSS)

Champaign, IL

Web Developer

Jun 2022 - Aug 2022

- Website Development: Led the creation of a responsive educational website centered around NASA's Artemis project, tailored for enthusiasts seeking to explore space technology.
- Interactive Quizzes: Crafted interactive quizzes that enhanced user engagement and provided real-time feedback to participants.
- Code Ninjas (JavaScript, HTML/CSS, Lua, Python)

Libertyville, IL

Coding Instructor

Sep 2018 - Jul 2019

• Leadership and Instruction: Provided mentorship to students including foundational coding and robotics principles in an engaging and accessible manner.

Projects

- JargonJolt (C++, JavaScript, HTML/CSS, SQL): Developed an ESP32-based portable flashcard language learning device utilizing a spaced repetition algorithm with integration between the Anki flashcard app.
- Nixie Tube Clock (C, MPLAB X IDE): Engineered a clock using PIC microprocessors and Microchip's Real-Time Clock to display the current time in a HH:MM:SS format.
- FPGA Rhythm Game (System Veriloq): Created a rhythm game utilizing I2S audio SDRAM configurations.
- Mosaic Generator from PNGs (C++): Implemented code which uses k-d trees and nearest neighbor algorithms.
- Youtube to Ascii Converter (*Python*): Utilized OpenCV2 to convert videos into JavaScript ASCII animations.
- Sound Controlled LEDs (C++, Arduino): Used MSGEQ7 graphic equalizers to pulse lights in time with music played through an audio-in channel. Colors change according to the frequencies of the audio data.

SKILLS

- Programming & Development: C, C++, Python, SQL, Lua, Java, JavaScript, HTML/CSS, React, Node.js, Git
- Software Tools & Applications: Altium, MPLAB, STM32Cube, Solidworks, Quartus, Cadence, KiCad
- Multilingual Communication: Spanish, Japanese

Relevant Coursework

• Relevant Courses: Computer Security, Applied Parallel Programming, Artificial Intelligence, Analog IC Design, Digital Systems Laboratory, Digital Signal Processing, Senior Design Project Laboratory