Victor Santana

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EDUCATION

Bachelor of Science in Computer Engineering   September 2023 - December 2027
Brigham Young University - Idaho   *Rexburg, Idaho*

- Certificate: Machine Learning Fundamentals
- 4.0 GPA
- Scholarship: Brigham Young University-Idaho Grant 2025-2026 (Acknowledgement of Academic Excellence)
- IEEE Society Event Coordinator Chair
- Relevant Courses: Programming with Classes (C#), C, C++, Programming with Data Structures (C#), and Fundamentals Digital Systems, Microprocessor Based System Design, Data Science Programming

EXPERIENCE

Faculty Technology Center Lead   January 2025 - Present
Brigham Young University - Idaho   *Rexburg, Idaho*

- Enhanced 100+ online courses in Learning Management System (LMS) showcasing strong problem-solving skills to ensure high-quality course delivery, improving user experience
- Collaborated in a dynamic team environment, utilizing various 5+ technologies to complete tasks efficiently and adapt to evolving project goals
- Manage a team of 20+ members by assigning tasks, providing one-on-one training sessions resulting in a 100% success rate office appointments

RELEVANT SKILLS

- Hardware & Software Tools: Arduino & IDE, STM32 & CubeIDE, GitHub, ChatGPT (Ask mode), VS Code Copilot (Ask mode)
- Programming Languages (in order of proficiency): C#, Python, C++, C, Assembly
- Management & Soft: Scheduling, Team Management, Team Training, Spanish Language

PROJECTS

Food Storage Management System   November 2024 - September 2025

- Built a food storage tracking system to help users organize expiration dates by designing a file-based architecture in C#, resulting in minimized food waste
- Implemented an automated email notification system, ensuring users received timely alerts for 100% of expiring items, leading to increased user engagement
- Developed a robust input validation system with custom error handling and conditional logic to prevent incorrect entries, reducing input errors by 90%

Microcontroller-Based Battery Voltage Meter | ECEN 260   January 2025 - April 2025

- Established UART communication to create a command-line interface via PuTTY, enabling a user to remotely select battery types (VIEW_1.5V, VIEW_3V, VIEW_9V) and send system commands (RESET)
- Implemented the I2C protocol to interface with an LCD1602 display, providing a real-time user interface for voltage and charge percentage
- Engineered an analog input stage using a voltage divider circuit to safely scale 9V inputs for the microcontroller's Analog-to-Digital Converter (ADC), protecting the hardware from overvoltage damage
- Authored and executed a comprehensive 8-scenario test plan to verify system accuracy, LED feedback, reset functionality, and edge-case handling (e.g., measuring an incorrect battery type)