ALEXIS LUEVANOS

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EDUCATION

California State University, San Bernardino - San Bernardino, CA
Bachelor of Science, Computer Engineering and Minor in Data Science | 3.7 GPA cumulative
Expected Spring 2025

TECHNICAL OVERVIEW

Programming languages: C++, Python, MySQL
Tools: Multimeter, Oscilloscope, Soldering and DC power supply, Arduino, Raspberry Pi
Software: Microsoft, Linux, Visual Studio Code, Beginner ArcGIS, AutoCAD
Transferable skills: Communication, Problem solving, Time management, Leadership, Teamwork

RELEVANT EXPERIENCE

Data Science Intern | Earn Learn Play Project, Youth Development Department, City of Los Angeles
UCR DS-PATH Program
June 2024 – September 2024
- Collaborated with the Youth Development Department on the Earn Learn Play (ELP) project, focusing on creating an interactive, searchable ArcGIS map for Los Angeles youth programs
- Supported data schema design, data cleaning, and consolidation, ensuring accurate and accessible data for public use
- Developed a data pipeline integrated with MySQL and ArcGIS Online to automate updates and maintain real-time data accuracy
- Enhanced user experience on the ELP platform by refining filtering logic, adjusting column displays, and implementing search functions

Undergraduate Researcher | Language Explanations for Self-Driving Scenes Project at California State University, San Bernardino
June 2024 – August 2024
- Conducted research to enhance autonomous vehicle interpretability through natural language processing (NLP) and computer vision
- Developed and enhanced two datasets (Cityscapes) and (GTA5) by generating and refining natural language descriptions of urban driving scenes to improve model accuracy and context awareness.
- Presented project findings at the IEEE DSAA Conference 2024, showcasing project insights on scene comprehension and safety in autonomous vehicles

PROJECTS

Project Lead the Way Robotics Competition
- Demonstrated exceptional leadership skills in guiding the team through the entire project lifecycle, from conceptualization to execution, ensuring adherence to strict deadlines and budgetary constraints
- Leveraged advanced C++ programming techniques to enhance the functionality and performance of the robot, optimizing its capabilities for competitive races and strategic maneuvers
- Seamlessly integrated a diverse array of robot parts and components, showcasing adept problem-solving abilities and meticulous attention to detail in ensuring seamless functionality and structural integrity

LED Dice Random Number Generator
- Engineered an interactive LED-based random number generator that simulates dice rolls, showcasing robust skills in circuit design, digital logic, and PCB assembly.
- Designed and implemented the entire system on a custom PCB, incorporating LED displays and a button-activated feature for random number generation.
- Integrated and soldered a series of logic gates and resistors to construct a responsive LED matrix, enhancing user interactivity.
- Demonstrated expertise in creating a seamless hardware-software integration, culminating in a visually engaging and functional dice simulation for hands-on electronic applications.

STUDENT INVOLVEMENT

Computer Science and Engineering Club, CSU San Bernadino
Fall 2022 - Current
- Actively participate in the Computer Science and Engineering (CSE) Club, contributing to a vibrant community of technology enthusiasts dedicated to exploring cutting-edge advancements and fostering collaboration within the field
- Regularly attend club meetings, workshops, and events focused on diverse topics such as coding, software development, artificial intelligence, and cybersecurity, expanding knowledge and honing technical skills