Angelo Nolasco

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EDUCATION

University of Nevada, Las Vegas
Bachelor of Science in Computer Engineering 12/2023
Honors: Dean's Honor List Fall 2023

RELEVANT COURSEWORK

Data Structure, Advanced Embedded System Design, Mobile Robotics, Internet Of Thing Systems, Computer Communication Network, Embedded Security and Machine Learning

Skills

Software Languages: C - C++ - Assembly(RISC-V,MIPS,AVR) - Python - HTML - CSS - Javascript
Hardware Languages : C - VHDL - Verilog - SystemVerilog - Python
Hardware Tools: Microchip Studio - Arduino Ide - RTOS - LTspice - Quartus Prime - ModelSim - KiCad

WORK EXPERIENCE

Front Desk Agent May 2024 - Present
Harrahs, Las Vegas,NV

- Manage to check in on average 50 or more guest per day
- Resolve 10 - 15 guest guest complaints or issue, ensuring the guest has a great stay
- Utilized hotel management software and system to manage each guest reservation daily

Projects

Smart Shower Head – Senior Design | Team of 4 View Project

- Design and implementation of a Smart Shower Head system in a team of four, leveraging 2 Raspberry Pi boards and VScode, empowering users to monitor water consumption, flow rate, temperature, and enjoy personalized music streaming via Spotify integration.
- Engineered data collection and transmission functionalities using Google Firebase, facilitating real-time data visualization on an LCD display and a mobile application, enabling users to make informed decisions and optimize water usage habits.
- Utilized:Raspberry Pi 4,Flutter, Alan AI, GitHub, Google firebase, VScode

Weather Website - Python Website

- Created a user-friendly interface for a weather website using HTML, CSS, and Flask, which streamlined navigation and improved user access to current conditions; the tool is now utilized by over 1,000 regular users for daily updates.
- Integrated the OpenWeatherMap API seamlessly into the project, enabling users to retrieve accurate weather information, including temperature, wind speed, pressure, humidity, and "feels like" temperature, for over 200,000 cities worldwide, enhancing the website's utility and global reach.

Four Task – Advanced Embedded System View Project

- Spearheaded he design and implementation of four concurrent tasks on a CC1352 TIRTOS microcontroller using embedded C, optimizing resource utilization and system efficiency, resulting in seamless execution of tasks every 15 minutes.
- Engineered a sophisticated timer mechanism to dynamically allocate resources for a fifth task at 1ms intervals, showcasing advanced multitasking capabilities and precise task scheduling to accommodate real-time requirements and enhance system responsiveness.