

JONATHAN HANBALI

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Hard-working and motivated Senior student in Computer Engineering successfully advanced and finished 3 networking and programming projects with a team, contributing in both software and hardware improvements. Seeking an opportunity as an Associate Network Engineer to apply computer and networking skills to create creative solutions in networking issues and connectivity problems

WORK EXPERIENCE

MOUNT SAN ANTONIO COLLEGE | Embedded Tutor Mar 2020 - Present

- Mentoring and tutoring students in Arduino, C/C++ programming and MATLAB
- Assisted Students to increase their programming knowledge and understanding by applying tutoring methodologies

CITY BLESSING CHURCH OF WALNUT | Technical Support May 2015 - Present

- Creating and managing audio, internet, lighting, and video cables
- Managing computers, network connectivity, audio, video, and lighting equipment

MAJESTIC PRODUCTION | Audio Visual Technician Jan 2013 – Present

- Installing and setting up audio and video equipment that are critical to meetings and conferences
- Assisting the presenters to troubleshoot a variety of computer and technology-related issues

EDUCATION

California Polytechnic State University Pomona Est. Graduation FALL 2023 | GPA: 3.55/4.00

Bachelor of Science Computer Engineering - In Progress

Coursework: Professional Engineering Practice; Digital Circuit Design Using Verilog; Signals and Systems; Object Oriented Programming; Digital Logic Design; Introduction to Microelectronics Circuit; Electrical Circuit Analysis II; Introduction to Microcontrollers; Data Structures and Algorithms; Statistics for ECE; Introduction to Power Engineering; Computer Architecture; Operating Systems for Embedded Applications; Software Engineering, Numerical Modeling.

Mount San Antonio Community College 2015 - 2021 | GPA: 3.44/4.00

Associate Studies - Computer Engineering

Coursework: Java Language and Object-Oriented Programming; C++ Language and Object Development; Fundamentals of Computer Science; Electrical Engineering; Introduction to Engineering Graphics; Programming Applications for Engineers; Introduction to Engineering Programming Concepts; and Introduction to Engineering Graphics; Cisco CCNA and Lab.

PROJECTS

REMOTE CONTROL CAR USING ARDUINO Arduino • C Programming • Circuit • Soldering

An in-class individual project that uses the knowledge in C programming and Arduino to create a Bluetooth controlled car. The car also provides feedback to show the remaining battery voltage utilizing knowledge in circuitry.

POINT TO POINT NETWORK BRIDGE Networking • Ubiquiti • Point-to-Point

Designed and executed a work project that utilizes my knowledge in networking to implement and deploy Ubiquiti UISP airFiber 60 LR to create a point-to-point network with 1.95Gbps throughput. This project improves the upload speed by more than 1000%

NETWORK UPGRADE Networking • Ubiquiti • VLAN • Wi-Fi 6 • Access Points

Designed and executed a work project to modernize the existing network infrastructure by implementing state-of-the-art technology by leveraging Ubiquiti Dream Machine Pro SE as the router and integrated Wi-Fi 6 enabled Ubiquiti Access Points and mesh, significantly enhancing network performance and connectivity.

SKILLS

Programming languages: C, C++, C#, Assembly (PIC18F).

Technology: MATLAB, Simulink, MPLAB X, PSpice, LabView, Vivado, Arduino, Visual Studio Code, GitHub, Linux (Ubuntu), Expert in MS-Office (Word, Excel, PowerPoint), Adobe Illustrator, Adobe Lightroom, Logic Pro X, Reaper.

Others: Soldering, Photography, Videography, Analytical, Troubleshooting and Debugging, Tutoring, Woodworking, Basic Computer Networking.