Jasem Ali

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Sunnyvale, CA, 94089

EDUCATION BACHELOR OF ELECTRICAL ENGINEERING – June 2020 - December 2023

University of The Pacific, Stockton CA

- ➤ GPA 3.85
- Dean's Honors (2020- Present)
- ➤ Member of Tau Beta Pi Engineering Honor Society
- ➤ Member of Mortar Board Honor Society

RELATED COURSES

SKILLS

	 Microcontrollers VLSI Design Auto. Control Systems Advanced Circuits 	 Computer Systems & Networks Digital Design Machine Learning Mobile Robotics
EXPERIENCE	 ENGINEERING TUTOR - October 2023 - Present University of The Pacific - Stockton, California, United States Conducted classes centered on the Tiva™ C Series TM4C1294 microcontroller, SPI communication protocols, and ARM assembly, emphasizing both theoretical understanding and practical application. Collaboratively worked with the lead professor in evaluating student assignments and projects, coupled with diagnosing and rectifying any project-related errors encountered by students. Managed and directed high-volume office hours. Successfully conducted office hours, simultaneously addressing the queries and technical challenges of over eight students, focusing on code-related issues and general inquiries . Authored detailed lecture notes and study guides to enhance student comprehension and provide structured support in project development and academic learning. 	
	 Cepheid - Sunnyvale, California Designed PCBAs using Altests that lowered the fail Supported the creation and Design Change Order (DC 	tium Designer , and component-level and subassembly ure rates of a product by 30%. I revision of the Bill of Material (BOM) and prepared a
PROJECTS	 Using the manual sheet for knowledge in C and ARM a player. Learned about different con implemented SPI to integra MIPS TO MACHINE LANGUAG Learned how to use Pythor implement the conversion I 	August 2022 – December 2022 the Tiva™ TM4C1294NCPDT Microcontroller and my Assembly, I programmed the main parts of the MP3 mmunication protocols (UART, I2C, and SPI) and ate the microSD with the microcontroller. GE USING PYTHON – August 2022 – December 2022 n on Linux operating system (using a virtual machine) to between MIPS Assembly and Binary Machine Language. sing flow charts to determine all possible cases easily.

C++, Python, HTML, MIPS, ARM, CSS, PHP, Circuits, C, MATLAB, Java, Latex Overleaf, Digital Multimeter, Oscilloscope, Waveform Generator, Electronics, Arabic & English, Arduino, Power Bi, Aliutm, Agile, Machine Learning.

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ADDITIONAL EXPERIENCES

MESA TUTOR AND ASSISTANT - January 2023 - May 2023

University of The Pacific - Stockton, California, United States

- Efficiently educated and prepared students with many courses including C++, Data Structures, Computer Systems & Networks, and Python.
- Encouraged and promoted the success of students by teaching them how to tackle hard projects and assignments.
- Discovered and gained new skills and tools, such as argparse in Python.

WEB DESIGNER - May 2022 - August 2022

The Rose Art Gallery - Kuwait

- Utilized Adobe and Canva to create templates to view the website and determine any possible changes the artist may request.
- Established the website's basic structure using **HTML** and then fabricated the designs and styles using **CSS** and **PHP** to develop a dynamic website.
- Constructed the communication functionalities and features (E.g. Contact Us page) using Java.

ADDITIONAL PROJECTS

DEVELOPING A PORTFOLIO WEBSITE (Jasemali.net) – December 2022

- Composed the basic look of the website using HTML, and then styled it using CSS.
- Independently learned how to upload and host the files to the internet (**Github pages** and Google Domains).

HANGMAN GAME ON LINUX OS USING PYTHON

- Used Python and parsing techniques to complete the project.
- Tested the project and verified that the project will handle all possible inputs.

TIC TAC TOE GAME USING C++

- Implemented a feature where the user can play with another user.
- Created a second option, where the user can play against the computer with different levels of difficulty.

MACHINE LANGUAGE TO MIPS ASSEMBLY USING PYTHON

• Using Linux as the operating system, designed and constructed a Python program that converts binary machine language to ARM assembly language.

BANKING SYSTEM USING C++

 Developed a program that allows the user to both create and save accounts (including the information stored in those accounts) using knowledge in both C++ and data structures.