Ghassan Younes

BSCE

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Equipment

Knowledge Base

Protocols

Skills

Languages & APIs

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C/C++	C# Java		LTSpice		Oscilloscopes		Control Systems
Zsh	Bash	LATEX	USB / USB-HID		PCB Mills		Digital Signal Processing
Rust	Swift	Perl	DHCP	DNS Board Bringup		0 1	Algorithms
Matlal	Matlab Python		HTTP(S)	(S)FTP	3D Printing Logic Analyzers Circuit Testing Equipment Git & SVN Source Control Bare-Metal Programming Microcontroller Firmware		
	HTML CSS		UART	ZigBee			
	JavaScript Node.js		I ² C SI	PI CAN			Microcontroller Firmware
	PHP JQuery		Operating Systems		CAD and Modeling		Soft Skills
	Vulkan OpenGL						Teamwork
	amd64/Arm Asset		Linux	BSD	Software		Task Delegation
SystemVer		•	Windows	macOS	EagleCAD KiCAD		Problem-solving
Embedded C/C+-		O		erating Systems	Fusion360	FreeCAD	Cultural Intelligence
Professional Experience							
Teaching Assistant, CS 100 - DigiPen Institute of Technology							
Assembled and tested lab kits involving the TIVA-C 123 microcontroller to send to incoming students ADM A							
• Programmed and tested assignments/exams in ARM Assembly to interface with the TM4C123 launchpad development board from Texas Instruments							
Collaborated with professore to assemble kits on time.							
Collaborated with professors to assemble kits on time							
<u>Computer Engineering Lab Assistant</u> - DigiPen Institute of Technology							
 Maintained cleanliness and organization of the Engineering labs 							
 Restructured and optimized organization of the labs to ensure optimal ergonomic access and accessibility 							
 Familiarized myself with part-ordering process to ensure constant stock of consumable parts 							
Tutor in Math, Physics, Computer Science, and Engineering - DigiPen Institute of Technology August 2020 - Present							
Assisted students in understanding core concepts from courses I had previously taken							
Encouraged students to ask for help and approach problems in new ways							
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Academic Projects							
<u>DART: Dubatron Autonomous Remote Tank</u> - Lead Engineer							
Goal: Modify the previous year's custom controller with a 'tank' (a small tread-based vehicle) to control it wirelessly with the							
gyroscope. The tank will override user control to avoid collisions by using infrared and ultrasonic sensors.							
Custom Video Game Controller - Lead Engineer							
Goal: Create a new and unique experience for playing a 2D-platformer game, and then expand capabilities to work as a generic							
controller, involves design and population of a PCB and chassis CAD model							
High-Altitude Solar Array - Hardware Engineer							
Goal: Design and build a device with size and weight constraints for use in a high-altitude (35km) balloon using a PIC-8							
Microntroller to read in values from a custom voltmeter and ammeter using ADC, and a cricketsat 555 circuit paired with an antenna to transmit data to the ground station							
Education							

Bachelor of Science in Computer Engineering - DigiPen Institute of Technology Expected May 2023

ABET/EAC Accredited program.

Redmond WA, USA.