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Summary

- Teaching at United Arab Emirate University in the College of Engineering.
- 7 years of IT Experience in project management and Software Quality Assurance. As a Senior Network System Engineer, mentored newly hired Engineers and trained them to adapt to the business cycle, and presented technical talks to share knowledge and experience with coworkers.
- Taught in the department of Electronics Engineering Technology at Texas Southern University.
- Instructor in the Mathematics Department at El Paso Community College.

Education:

MS in Electrical Engineering, New Mexico State University, Las Cruces, NM, USA (1994).
BS in Electrical Engineering, New Mexico State University, Las Cruces, NM, USA (1992)

PROFESIONAL EXPERIENCE:

United Arab Emirates University, College of Engineering, UAE 9/2003 – present
Instructor:

Currently teaching the following labs:

Differential Equations for Engineering Applications.
Freshman Lab.

Taught previously the following courses:

Course Title	Course Description
Differential Equation for Engineering Applications MATH 2210	Ordinary Differential Equations First Order Differential Equations: Separable- Homogenous -Linear- Bernoulli - Exact- Integrating Factors. Second Order Linear Differential Equations: Homogenous Equations with Constant Coefficients - Undetermined Coefficients Method - Variation of Parameters Method - Euler's Equation - Non Homogenous Equations - Higher Order Linear Equations - Systems of Differential Equations, Laplace Transforms Basic Properties - Solving Initial Value Problems Using Laplace- Solving Integral Equations - Solving Systems of Differential Equations. Some Engineering Applications.
Freshman Lab GENG 250	This lab course is an introduction to techniques for engineering measurement, estimation of measurement uncertainty, error analysis, data acquisition, processing, and analysis. Laboratory exercises are drawn from various engineering disciplines. The delivery pattern is based on a series of mini lectures on laboratory safety, laboratory practice and hardware, experimental data processing, report writing, presentations and a project based hands-on approach to laboratory experimentation.
Digital Hardware Fundamentals ITBP 209	Introduction to basic electrical circuits, digital systems, and computers; Binary systems and codes; Digital logic gates, circuits, and Boolean algebra; Microelectronics and integrated circuits; Coding and multiplexing; Flip-flops, registers, counters, A/D converters, arithmetic, and arithmetic units; Microprogramming and instruction sets; Input/Output; Lab Projects.
Communication and Network Fundamentals ITBP 210	data communication fundamentals and computer networking methods, with focus on the principal protocols of the Internet; Five-layer stack comprised of physical, data link control, network, and transport layers, for local and wide area networks; Communication Principles of analog and digital transmission, reliable link layers, and local area networks; Basic operation of connection-oriented and connectionless network layer models, and associated routing protocols; Principles of reliable transport protocols; Basic organization of client-server distributed applications, including the Word Wide Web; Lab projects.
Computing System ITBP 211	Computer system hardware and organization; Functions of compilers, assemblers, and linkers; Functions of an operating system (interrupts, processes, Semaphores, memory management, file management, directory management, shell) and hardware support needed to implement them; Examples OS major commercial system; projects.
Circuits Fundamentals CSEB 301	Basic electrical circuits (DC, AC); Resistors, capacitors. inductors, and analysis of DC and AC circuits; Introduce SPICE software package; Simple laboratory experiments introducing basic instrumentation (power supply, multi-meters, oscilloscopes, function generators). Pre-requisite: ITBP209 (taught in coordination with the Electrical Engineering College)

Data Communications CSEB 341	Basic communication theory; Basic coding theory; Analog and digital communications; Analog communication system; Digital communication links; LAN architecture and protocols.
Network Protocols NEBP 310	Class-full addressing, classless addressing, and sub-netting; Delivery and routing of IP packets; Address resolution: ARP and RARP; IP protocol; Network troubleshooting: ICMP; Network design and performance; User datagram protocol (UDP); Transmission control protocol (TCP); Routing protocols: RIP, OSPF, and BGP. BOOTP, DHCP and DNS.
Signals and Systems II CSEB 420	Discrete-time signal processing systems; Sampling and reconstruction; Difference equations and discrete transfer functions for systems; Architectures of special purpose DSP chips (e.g; Texas Instruments TMS320 family DSP); Applications to multimedia systems (audio and video processing). (Taught in coordination with the Electrical Engineering College).
Internship ITBP 299	Students spend one full semester as interns in a company, government agency, or business. Under faculty supervision, students fulfill various assignments to acquire first-hand knowledge of a working environment. Students are required to write a final report detailing the technical aspects of their internship. This course is graded on a Pass/Fail scale.
Principle of Information Technology ITBP 103	Overview of IT; IT Related Disciplines: Intelligent Systems, Software Systems, Information Systems, Computer Systems, Networking, E-Business and Information Security; IT Application Domains; Overview of Computer Systems; Networks and the Internet; Abstraction, Modeling and Programming; Information Management; Software Systems Development Methods; Web Enterprise Systems and Technologies; Artificial Intelligence; Social and Ethical Issues that Regulate the Use of Computers.
Operating System Fundamentals ITBP 315	Operating systems examples; Criteria to select, deploy, integrate and administer platforms or components to support the organization's IT infrastructure; Fundamentals of hardware and software and how they integrate to form essential components of IT systems; Operating system principles; File systems; Real-time and embedded systems; Fault tolerance; Operating system maintenance, administration and user support.
Human Computer Interaction ITBP 316	Principles of user interface design, development, and programming; User psychology and cognitive science; User interface evaluation; Icon and window design; Command language design; Web based user interfaces.

3Com Corp., Santa Clara, CA**9/95-6/2003**

Sr. Network System Engineer

- Worked in different Divisions with different positions within the company.
- Worked as Software QE, responsible for testing the 3Com AccessBuilder family of Remote Accesses servers in the Enterprise Access Division.
- Installing, configuring, and managing LAN/WAN stress test beds.
- Working with other Engineers to provide solutions to complex issues.
- Identifying Engineering problem down to the design level.
- Generate test procedure and test spec, integration test for ABclient, NT RAS client, RADUIS/NT server along with AB2000/4000/5000.
- Assembled and configured and AB5000 high-end remote access server with Microcom T1 option.
- Designing and creating test plan and test procedure, and implementing, problem isolation, diagnostic, tracking, installing, configuring, and performing network software QA testing Ethernet, Token Ring, ATM, Hubs, Switches, routers, VLAN, and third party products such as Cisco, Bay Network, Lucent, Intel and so on.
- SQA testing NDIS and ODI device drivers on all different NOS platform with network protocols such as TCP/IP, IPX/SPX, NetBEUI, DHCP, and NetBIOS.
- Conduct the entire test lifecycle from understanding fully the functional and technical specifications through to creating detailed test plans and test cases, running the test cases, reporting results and re-testing any errors found. Report errors/bugs/irregularities found during testing and then follow up to ensure that the changes to code correct the problem.
- Maintained documentation on test results and ensures quality assurance standards are met/exceeded.
- Participated in qualifying and testing more than twenty LAN PC Cards releases in the Mobile Communication Division.
- Participated in qualifying ten Wireless LAN releases of Wireless products in the Wireless Connectivity Division.

Environment: Novell servers and clients, WIN NT servers and clients, some Solaris UNIX, ISDN, and Serial view PPP analyzer, LAN/WAN, IPX/SPX, TCP/IP, Hubs, Switches, Bridges, Routers, Ethernet, token Ring, USB Bank Modems, Motorola Bank Modems. LAN / Wireless LAN PC Cards, and Wireless Access Points

Texas Southern University, Houston, Texas**9/94-9/95**

Adjunct Professor

Taught in the Electronics Engineering Technology Department the following courses and their labs:

Course Title	Course Description
Communication Systems	Study of basic communications systems with emphasis on the applications of Fourier series, Fourier transforms, modulation techniques, and transmission lines.
Communication Systems Lab	Experiments on oscillators, transmitters, receivers, filters, and transmission lines as related to modern electronic communications techniques.
Digital Electronics	Introduction to digital technology, Boolean algebra, number systems, codes truth tables, combinational and sequential logic, and logic devices.
Digital Electronics Lab	Exercises on logic circuits, combinational and sequential logic devices, and flip- flops.
Electrical Circuits	Study of alternating current circuits, impedance concepts, network theorems, and transformers, passive filters, and response curves.
Electrical Circuits Lab	Practical experiences in the measurement and analysis of alternating current with voltage, impedance, and phasor experiments.

Elpas Community College, Elpas, Texas

9/92-6/94

Instructor

Taught the following courses in the Department of Mathematics:

Course Title	Course Description
Intermediate Algebra	Involves an intensive study of the operations of algebra. Topics include polynomials, factoring, rational expressions, radicals and fractional exponents, linear and quadratic equations and inequalities, functions, graphs of lines, parabolas and circles, systems of equations, and exponential and logarithmic functions.
College Algebra	Includes a review of the basic operations of algebra, solving equations and inequalities, functions and graphs, polynomial functions and equations, rational, exponential and logarithmic functions and analytic geometry.

Affiliations:

- Member of the Institute of Electrical and Electronics Engineering (IEEE).
- Member of Computer and Networking Society.

Language: Arabic, English, and Spanish.

References: Available upon request.