

Jack A. Vaughn, M.S., CQE, CQA

Summary of qualifications

Professional Experience

Over 35 years experience in teaching, directing and managing employees and students in an information management and technology environment. Operations research systems analyst, with direct experience in forecasting, planning, and management of information system and computer analysis team budgets. Recent experience includes analysis of requirements and the planning for acquisition of extensive networked educational computer systems and related components. Participated in the ad hoc working group that resulted in the formation of the chartering of the Paso del Norte chapter of the Association of Information Technology Professionals (AITP). Serves as a member of the board of directors for the Paso DEL Norte Chapter of AITP. Experience in evaluation, development, and utilization of complex electro-mechanical and software systems. Instructor in Computer Information Systems, Production Operations Management, and Quantitative Methods for Business classes to upper level students at a four-year university. Represented the College of Business on several University level committees including Information Technology, and Quality in Customer Service. Fifteen years of experience in the conduct and supervision of analytical studies of various army air defense weapon systems, combined arms weapons and sensor systems, and army air defense command and control systems. As deputy chief of Studies and Analysis division, was instrumental in the requirements development, acquisition, installation and management of network systems for the division. As Chief of a U.S. missile control center in West Germany, was required to direct the design, development, and maintenance of complex international command and control systems computers and communications systems. Certified by the American Society for Quality (ASQ) as a Quality Engineer and as a Quality Auditor.

Work experience

1995 - Present University of Texas El Paso
El Paso, TX

Lecturer

Has been teaching upper division classes in Computer information Systems including Business Data Communications and Networking; Production Operations Management including Quality control and Planning; and Quantitative Methods for Business including Statistics and Management Science. Assisted the Department Chair and the College Dean in the development of requirements, planning and acquisition of networked computer systems to be used in classrooms and laboratories within the College of Business.

1994-1995 Science Application International Corporation
El Paso, TX

Senior Systems Analyst

Conducted analysis of complex software simulation and produced detailed flowcharts used in documentation of results of the study. Established networks within the office to assist in the exchange and backup of information on many of the office computer systems.

1989 – 1993 Research Analysis and Maintenance, Inc.
El Paso, TX

Senior Operations Research and Systems Analyst

Responsible for development of military operational and training systems analyses including extensive statistical and cause and effect analysis. Proficient in development of large-scale, force on force, computer simulation model scenarios. Assisted in the simulation and analysis that supported the production decision for air defense and theater missile defense concepts integrating technology developed by General Electric Aerospace into current army air defense concepts. Assisted in the development of the Air Defense Tactical Operations Center interoperability report for the Project Manager, Air Defense Command and Control Systems. Verified the structure and applicability of the algorithmic and logic constructs of selected process and analytical models as well as the validity of its results. Key member of the team that developed a complete verification and validation (V&V) of a very large computer simulation used by the US Army for detailed system analysis.

1985 – 1989 U. S. Army Air Defense School
Fort Bliss, TX

Deputy Division Chief

Responsibilities included supervising and managing cost and operational effectiveness studies, requirements analyses, and tradeoff analyses for the U.S. Army Air Defense School for new and evolving air defense weapon systems. Responsible for budget forecasts, planning, and supervision of study efforts within the division. Also responsible for monitoring and evaluation of several contracted efforts by outside agencies.

1984 - 1985 TRADOC Systems Analysis Activity
White Sands Missile Range, NM

Operations Research Systems Analysis Officer

Responsible for all military aspects of the Light Air Defense Study. Maintained air defense and air offense program modules in the FOURCE (Command, Control, Communications, and Combat Effectiveness) simulation model.

1982 - 1983 Missile Control Center
Boerfink, West Germany

Chief of the U. S. Army Element

Responsible for the Air Defense Command and Control Element that managed two US Army Air Defense Brigades and a German Air Force Nike Hercules Battalion in the Rear Combat Zone in Southern Germany. Responsible for all US Army actions in the installation of the German Air Defense Ground Environment System (GEADGE) in the Boerfink bunker.

1980 - 1982 32nd Army Air Defense Command
Darmstadt, West Germany

Command and Control Officer

Responsible for the planning and training operations center, World Wide Military Command and Control System operations, GEADGE interoperability actions and command and control force modernization actions for the command.

1978 - 1980 U. S. Army Air Defense School
Fort Bliss, TX

Senior Systems Analyst

Responsible for interoperability, software, and hardware modification actions associated with the AN/TSQ-73 Missile Minder command and control system. Assisted in the development of requirements documentation for the Short Range Air Defense Command and Control System.

Education

1971 - 1973 U. S. Naval Postgraduate School
Monterey, CA

Masters of Science, Operations Research Systems Analysis

1964 - 1968 Virginia Polytechnic Institute
Blacksburg, VA

Bachelor of Science, Aerospace Engineering

Professional memberships

Senior Member, American Society for Quality
Senior Member American Institute of Aeronautics and Astronautics
Life Member of Institute of Electrical and Electronics Engineers
Member of Association of Computing Machinery
Member of Institute for Operations Research and the Management Sciences
Member of the Association for Information Technology Professionals
Life Member of the Association of the United States Army
Associate member of Sigma Xi

Community activities

Member of the Hanks Community Committee
Partner in Education Coordinator, ASQ and LeBarron Park Elementary, RL Washington Elementary and South Loop Elementary YISD
Member of board of directors of the Paso del Norte chapter of AITP
Member of the board of directors of the Greater El Paso section of ASQ