

Associate Resume

F u n c t i o n a l s u m m a r y

More than twenty-seven years of progressive experience with varied and challenging professional endeavors. History of achievement includes success at technical, project management, and corporate management positions.

Engaged in large systems projects requiring skills in managing personnel and logistic resources, managing contracts obligations, and interacting with clients to insure successful on time and under budget completion of firm fixed price contracts.

Achieved a unique perspective in the design, installation, testing, and operation of digital systems used in plant wide enterprise installations. Solved complex technical and management issues associated with large distributed digital systems projects. Conceived, developed and marketed the design and application of specialized systems. Had primary responsibility for implementing programs for a broad range of systems that provided a spectrum of operational applications for a number of electric power facilities.

Cross industry experience in pharmaceutical manufacturing environment with direct experience in application of CFR requirements to validation and compliance issues,

D e t a i l e d E x p e r i e n c e

Energy Science Applications Inc.
Powder Springs, Georgia

1987 - Present

Principal/Consultant.

Founded ESAI in December 1987.

From September 2001 to November 2002, contracted to Data Systems and Solutions, a joint venture between SAIC and Rolls Royce, to design and develop specifications for plant process computer applications. The scope of this contract included leading the development of initial designs for applications. These included Balance of Plant performance calculations and the Safety Parameter Display System (SPDS) that were retrofit in a new computer system platform.

The SPDS was a bottom up design effort. Specific project scope included development of screen displays and developing specific test cases to verify that logic for displays and calculations were functional and as designed.

Nuclear Consulting Services

From September 1998 September 2001, provided technical assistance to Air Liquide America Corporation in Houston, Texas as a validation engineering consultant for cryogenic air separation units manufacturing medical gases. Principal function is to insure that distributed control systems (DCS) perform as specified and required under FDA guidelines and regulations. Acted as Project Manager for FDA validation of DCS applications in various plants and testing of Advanced Process Controls software. Tasked with managing project to validate Maximo CMMS project and to verify that 21 CFR Part 11 requirements are met.

In the summer of 1998 detailed purchase specification for a system used to monitor and invoke control of movement of control rods in an operating nuclear reactor for Public Service Electric and Gas Company of New Jersey. This project was a fixed price project that was completed on time and within budget.

Early in 1998, contracted by Niagara Mohawk Power Company to develop and author a technical specification for the replacement of the General Electric Transient Analysis Recorder System (GETARS). The GETARS was a computerized data acquisition and analysis system that needed to be upgraded and replaced due to obsolescence. Successfully completed the specification under a fixed price contract on time and within budget.

In fall of 1997, assisted PSE&G in preparation of the P250 Plant Computer Replacement System (Foxboro) for Salem Unit 1 Nuclear Power Plant and power ascent readiness of system and its hardware and software components.

Provided design documentation and system readiness reviews and technical advice on computer systems at the Salem/Hope Creek nuclear site. Scope expanded to include design reviews on Digital Feedwater Control Systems and plant computer replacement systems. Also provided services to implement design modifications to the Safety Parameter Display System software. The modifications included changes to displays, algorithms for safety logic, and filter algorithms to deal with noise problems on special nuclear instrumentation.

This included services to assist in the plant computer system replacement project for one of their nuclear units at Salem, NJ. Provided management direction that resulted in recovery of a stalled project. This was accomplished by establishing reasonable goals and schedule through interaction with both the client and the client's vendor. This effort resulted in savings to budget and schedule.

As a consultant, provided project management to SAIC (former employer) and managed an \$8.5 million large systems integration project on time and under budget. This system was an integrated plant computer system at a dual unit nuclear power plant installation in near Fort Worth, Texas. Managed personnel and physical resources and resolved technical and contractual issues. The system was a mix of real-time applications and data acquisition, calculations, and information management.

Worked with Pacific Gas & Electric Company to achieve requirements for on-line real-time calculations and performance for critical nuclear operations calculations in a real-time enterprise system.

Consulted with Philadelphia Electric Company to provide expert assistance for installation and testing of large enterprise system using real-time data and calculated data.

Science Applications International Corporation
San Diego, California

1983 - 1987

Assistant Vice President and Division Manager of Nuclear Analysis and Operations Division, Marietta, GA
Primary responsibility was for new product development. Managed technical and staff personnel and had full profit/loss responsibility for a division with revenues exceeding \$5 million.

System software and hardware projects and products were conceived, marketed, developed, installed, tested, and accepted by utility clients. Projects were largely completed on a fixed price/fixed schedule basis. Lead the design and development of a digital based system that was used to inhibit control rod motion (Rod Worth Minimizer) for several BWR sites, including General Public Utility's Oyster Creek Plant and Philadelphia Electric Company's Peach Bottom Nuclear Station.

Acted as lead engineer in the development and implementation of nuclear applications procedures and programs for nuclear plant computer system integration projects.

Helped to build teams with various divisions and sectors within SAIC to manage and complete large systems integration projects on time and under budget. Teamed with other divisions and sectors over a wide geographic area to define technical products and services for utilities that used our technology.

United Energy Services Corporation
Atlanta, Georgia

1981 - 1983

Senior Engineer

One of first six employees in a startup company. Instrumental in helping UESC originate and expand operations at two separate customer sites.

Assigned to nuclear facility (Shoreham) in New York to manage and direct second shift activities of approximately 150 engineers and technicians.

Assigned to nuclear facility in Louisiana (Louisiana Power & Light, Waterford) as assistant to training manager. When training manager was incapacitated, assumed training manager responsibilities and coordinated site wide training development for reactor operators, technicians and engineers.

EDS Nuclear, Inc.
Norcross, Georgia

1980 - 1981

Lead Senior Engineer in Management Services Division.

Assigned to site with Arkansas Power & Light (ANO1). Lead team of engineers to develop accurate system descriptions, lesson plans and training materials for nuclear training facility.

General Electric Company

1978 - 1980

I&SE Business Division, Atlanta, Georgia

Senior Engineer and Simulator Training Instructor.

First instructor on new generation simulator and control room design for GE nuclear power plants. SRO BWR6 and Nuclenet Control Room design. Member of team to verify simulation algorithm and models in delivered Singer-Link control room simulator. Developed training materials and lesson plans for nuclear operators and lead first simulator class through control room simulator training.

Assigned to utility site in South Georgia (Plant Hatch Unit 2) as Startup Technical and Design Analysis Engineer. Worked with real-time system designed to acquire, display and analyze field-input data. Developed design verification reports based on acquired data. Setup data acquisition system and provided calibration of data with Validyne and HP9000 configuration

Assigned as Refueling Floor Supervisor for Plant Hatch Unit 1 RF02. Provided supervision and coordination of GE engineers, technicians, and utility technicians and craft in the disassembly, reassembly, and maintenance activities associated with fuel and special engineering applications related to feedwater spargers and fuel maintenance.

Jersey Central Power & Light Company

1977 - 1978

Forked River, New Jersey

Nuclear Engineer.

Provided core analysis and performance calculations using state of the art computer techniques.

General Electric Company

1975 - 1977

I&SE Business Division, Atlanta, Georgia

Nuclear Field Engineer.

Variety of field assignments that included both maintenance and quality assurance activities.

E d u c a t i o n

University of Florida

1973 - 1975

Gainesville, Florida

Bachelor of Science in Engineering (Nuclear Engineering)

Active Member, American Nuclear Society (Student Chapter), Merit Scholarship Dept. of Engineering

Pensacola Junior College

1971 - 1973

Pensacola, Florida

Associate of Arts (Pre-Engineering)

Phi Theta Kappa, Member Student Court, Full Merit Scholarship Mathematics

C o u r s e s a n d S e m i n a r s

GE Field Engineering Training

Kepner-Tregoe Training

Boiling Water Reactor Senior Operator Training, Certified SRO

Fixed Price Project Management

Air Liquide cGMP (Current Good Manufacturing Practices) Training

Air Liquide 21 CFR Part 11, Electronic Signature Training

Air Liquide Medical Products Manual Training

Air Liquide Medical Products Procedures Training

M e m b e r s h i p s

American Society of Mechanical Engineers, Member

Instrument Society of America, Senior Member

National Awards Chair for Automatic Controls and Operations Division (retired)

Industrial Computing Society, Member