



**The Augustus Group**  
**Karl Schmidt – Principal Engineer**

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## SUMMARY

Over 30 years of experience in Quality Assurance, nondestructive testing, inspection, and asset integrity management, including 20 years as general manager and project manager. Experienced in international projects, mission-critical technical services, including: manned space program, nuclear power, major pipelines, oil & gas, chemical process and capital projects. Direct experience in technology development, integration, and implementation.

## PROFESSIONAL EXPERIENCE

### **ELPER/ACUREN TEAM, LAGOS, NIGERIA - HOUSTON, TX – 3/2005 – PRESENT**

Management consulting for quality and project management services projects, including training, technology transfer, nondestructive testing and inspection program management.

### **Washington Group International, Inc., Princeton, NJ 7/2000 – 3/2005**

Vice President Washington Quality Programs Company  
Director Quality Programs Division

Responsible for general management including: business development, resource development, project execution, for the 800 employee, Quality Programs Division. Performed consulting, engineering and technical services to preserve the integrity of complex physical systems. Provided QA/QC Engineering, Corrosion and Materials Engineering, Inspection and Testing for: nuclear power, upstream and downstream Oil & Gas, and chemical process and aerospace clients. Provided Inservice Inspection QA/QC and NDE services to more than 25 nuclear power plants for Duke Power, Entergy, Exelon, FPL, OPPD, PECO, and others. For Provided project QA/QC/NDE for SGT, Ltd. Steam Generator and component replacement at 10 nuclear power plants, including 2 record performances. Provided QA/QC support to offshore, refinery and process facilities for ABB, BP, Daewoo, ExxonMobil, Lyondell-Equistar, Saudi Aramco, Shell and others, condition assessment for Formosa Plastics. Responsible for QA/QC Inspection and Testing services for DoE Savannah River Project, NASA Manned Space Program. Responsible for corporate materials and welding programs.

### **Raytheon Engineers and Constructors, Inc., Princeton, NJ 1/1994 – 6/2000**

Vice President Quality Technology and Engineering  
Quality Programs & Environmental Sciences Division

Managed the 300-person organization, which developed and applied robotics and advanced sensors for inspection. Conducted inspection, testing and QA/QC services. Responsible for the conduct of Corporate Quality Assurance Programs. Provided Inservice Inspection QA/QC and NDE services to more than 20 nuclear power plants for Duke Power, Entergy, Exelon, FPL, OPPD, Wisconsin Electric, Yankee Atomic and others. Representative Oil & Gas projects include: Arzew LNG Plant upgrade; Magreb-Europe Pipeline (world record production); ARCO El Dazier process facility construction; Bolivia-Brazil Pipeline construction; Transredes Pipeline System Integrity. Nuclear power projects included: Inservice Inspection for Duke, Entergy, Exelon, FPL, OPPD, PPL and others. Developed and invented essential technology and delivered industry's first on-stream inspection of API-650 tanks in volatile projects.

**Ebasco Services, Inc. New York, NY & Lyndhurst, NJ****8/1990 – 12/1993**

Vice President Quality Technology & Engineering  
Director Materials Testing and Examination Services

Managed all aspects of the materials testing and examination service business performing nondestructive testing, corrosion mitigation engineering and fitness for service evaluation, including life assessment and laboratory services. Integrated and qualified technology and performed the first submerged internal inspections of nuclear power plant suppression torus structures.

**Nuclear Energy Services, Inc., Danbury, CT****1975 – 1990**

Vice President & General Manager Inspection Services

Developed and managed businesses providing services and products to nuclear power and chemical process and public sector markets. Conducted Corporate Quality Assurance Program review. Developed and deployed the first portable submersible PWR reactor vessel nozzle inspection device. Acquired and qualified the technology and performed the first fully digital, ultrasonic inspection of a US Nuclear Reactor Vessel.

**Babcock & Wilcox Company, Lynchburg, VA****1973 - 1975**

Project Engineer/Project Manager

Responsible for project engineering of nuclear service research projects in remote service functions and NDE, and for project management of engineering service contracts to nuclear utilities.

**US NAVY****1969 - 1972**

Officer - US Navy Nuclear Power Program

Qualified in Submarines. Engineering Officer of the Watch, nuclear attack class ships.

**EDUCATION**

UNIVERSITY OF CALIFORNIA, BERKELEY, CA; BACHELORS, PHYSICS, 1969  
US Navy Officer Nuclear Power Training Program; Comp MS Nuclear Engineering, 1970  
Lynchburg College, Lynchburg, VA; Courses toward MBA, 1974-1975

**PROFESSIONAL AFFILIATIONS**

American Society of Mechanical Engineers (past Appointee Codes and Standards Committee),  
American Nuclear Society, American Society for Nondestructive Testing, National Association of  
Corrosion Engineers

**TECHNICAL PUBLICATIONS**

*On-Stream Inspection of Above Ground Storage Tanks*, ASNT, 1995  
*Mechanical Integrity and Process Safety Management*, AIChE, 1994  
*Advanced Robotics Applications to Tank Inspection*, NACE, 1993  
*"Constraints on Boiling Water Reactor Piping System Inspection, Mitigation, Repair, and Replacement,"* AIF/NESP-038, Atomic Industrial Forum, 1986  
*"Application of an Advanced UT System to Piping IGSCC Examination,"* Eleventh Annual National Energy Division Conference, ASQC, 1986

*US Nuclear Industry Ad Hoc Committee Response to USNRC Reg. Guide 1.150, Various Trade Journals, 1984*

**PATENT**

U.S. Patent 6,104,970, 8/15/2000 – Crawler Inspection Vehicle with precise mapping capability.