

## **KARL F. SCHMIDT, JR.**

### **PROVEN BUSINESS AND TECHNICAL LEADER IN ASSET INTEGRITY MANAGEMENT**

Principal investigator, corporate officer, general manager, project manager and direct supervisor of mission-critical technical services, including: nuclear power, defense, air and space, major pipelines, oil & gas, chemical process in US and international capital projects.

**Fall Line Holdings, Inc.** **2005 – present**

Owner / President, providing management consulting in asset integrity technology applications, program management and business development for industrial and commercial clients, including:

**Evisive, LLC, Baton Rouge, LA** **2005 – present**

Principal Investigator for Small Business Innovative Research Projects for US Air Force, Army, Marine Corps, Missile Defense Agency; applying Evisive microwave testing technology, as Defense Applications Program Manager.

**ELPER Oilfield Engineering, LTD, Lagos, Nigeria** **2005 - present**

Project development, NDT program, staffing and special projects execution for clients; Exxon Mobil, Chevron, Total, Shell, the Nigerian National Petroleum Company and others.

**System One Holdings, LLC** **2018 - present**

Microwave NDT Level III services and technical consulting.

**Washington Group International, Inc., / Raytheon Engineers & Constructors, Inc. /**

**Ebasco Services, Inc.** **1990 - 2005**

**Vice President Washington Quality Programs Company / Director Quality Programs Division / Vice President Quality Technology & Engineering:** Consulting, engineering and technical services to preserve the integrity of complex physical systems for: NASA, Department of Energy, nuclear utilities, oil, gas and chemical process entities, and aerospace clients in the US and internationally. Delivered the first submerged internal inspections of nuclear power plant suppression torus structures, and patented robotic tank inspection system.

**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, chemical process and public sector markets. Performed the first fully digital ultrasonic inspection of a US Nuclear Reactor Vessel. Performed the first reactor vessel nozzle inspection by portable submersible device.

**Babcock & Wilcox Company, Lynchburg, VA** **1972 - 1975**

**Project Engineer/Project Manager:** Project management of engineering service contracts and nuclear service research projects including the first on-line loose parts monitoring and core oscillation system development.

**US Navy** **1965 - 1972**

**Qualified Submarine Officer: Nuclear Power Program attack class ships.** Main Propulsion division officer, Communications officer

### **EDUCATION**

University of California, Berkeley, BA Physics, 1969

US Navy Officer Nuclear Power Training Program; Nuclear Engineering, 1970

Lynchburg College, Lynchburg, VA; Courses toward MBA, 1974-1975

## KARL F. SCHMIDT, JR.

### Patent

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

### REPRESENTATIVE PUBLICATIONS

Editor, ***The MW Compendium: Articles on Microwaves***, American Society for Nondestructive Testing, 2016

Technical Editor, ***Field Service Microwave Inspection Experience in Dielectric Components, Materials Engineering***, Materials Evaluation, American Society for Nondestructive Testing, 2016

Author, ***Microwave Interferometry NDT of Composites***, National Space & Missile Materials Symposium (NSMMS) & Commercial and Government Responsive Access to Space Technology Exchange (CRASTE), 2016

Author, ***Microwave Interferometry NDT of Composites, National Space & Missile Materials Symposium, (NSMMS / CRASTE) 2015***

Author, ***Operator Training and Performance Measurement for Nondestructive Testing of Ceramic Armor, International Conference on Advanced Ceramics and Composites***, 2015

Contributing author, ***American Society of Nondestructive Testing Aerospace Industry Handbook***, American Society for Nondestructive Testing, 2014

Author, ***Update: Robust Nondestructive Testing Tools for Ceramic Armor***, 37th International Conference on Advanced Ceramics and Composites, 2016

Author, ***Quantitative NDE of CMCs by Microwave Interferometry***, 39th Annual Conference on Composites, Materials and Structures, 2015

Author, ***Briefing for the 46th Meeting of the Combined Light Armor Survivability Panel (CLASP)***, 2013

Author, ***Optimization of a Portable Microwave Interference Scanning System for Nondestructive Testing of Multi-Layered Dielectric Materials***, U.S. Army Research, Development and Engineering Command (RDECOM), Tank Automotive, Research, Development and Engineering Center (TARDEC), 2010

Author, ***Application of Microwave Interferometry in Complex Engineered Dielectric Materials***, Electromagnetic Nondestructive Evaluation XIV *Studies in Applied Electromagnetics and Mechanics*, IOS Press, 2010

Author, ***Mechanical Integrity and Process Safety Management***, American Institute of Chemical Engineers. 1994

Author, ***Advanced Robotics Applications to Tank Inspection***, National Association of Corrosion Engineers, 1993

Contributing author, ***Constraints on Boiling Water Reactor Piping System Inspection, Mitigation, Repair, and Replacement, AIF/NESP-038***, Atomic Industrial Forum, 1986

Author, ***Application of an Advanced UT System to Piping IGSCC Examination***, Eleventh Annual National Energy Division Conference, American Society of Quality Control, 1986

Contributing author, ***US Nuclear Industry Ad Hoc Committee Response to USNRC Reg. Guide 1.150***, 1984