

CURRICULUM VITAE OF FOREST JOHN SMITH, P.E.

January 2014

I. GENERAL INFORMATION

A. POSITION:

Senior Electrical Engineer - Partner
Verité Forensic Engineering, LLC.
Office Address: 10070 Airport Road
Conroe, TX 77303

II. PROFESSIONAL SUMMARY

A. EDUCATION:

Associate in Arts with Honors
Tyler Junior College, 1969

Bachelor of Science in Electrical Engineering
University of Texas at Arlington, 1971

Master of Arts
Baptist Christian University, 1979

Doctor of Philosophy
Louisiana Baptist University, 2006

B. PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

Licensed Professional Engineer, State of Alabama
License No. 26869

Licensed Professional Engineer, State of Arkansas
License No. 10105

Licensed Professional Engineer, State of Arizona
License No. 35812

Licensed Professional Engineer, State of Colorado
License No. 39141

Licensed Professional Engineer, State of Florida
License No. 63276

Licensed Professional Engineer, State of Idaho
License No. 11004

Licensed Professional Engineer, State of Kansas
License No. 18084

Licensed Professional Engineer, State of Louisiana
License No. 29166

Licensed Professional Engineer, State of Minnesota
License No. 43795

Licensed Professional Engineer, State of Mississippi
License No. 16610

Licensed Professional Engineer, State of Missouri
License No. 2005000039

Licensed Professional Engineer, State of Montana
License No. 16081

Licensed Professional Engineer, State of New Mexico
License No. 14886

Licensed Professional Engineer, State of North Carolina
License No. 030751

Licensed Professional Engineer, State of Oklahoma
License No. 19822

Licensed Professional Engineer, State of Oregon
License No. 73459

Licensed Professional Engineer, State of South Carolina
License No. 24146

Licensed Professional Engineer, State of Tennessee
License No. 00111077

Licensed Professional Engineer, State of Texas
License No. 74168

Licensed Professional Engineer, State of Virginia
License No. 041024

Licensed Professional Engineer, State of Washington
License No. 40186

Licensed Professional Engineer, State of West Virginia
License No. 17133

Certification – National Council of Examiners for
Engineering and Surveying (NCEES) - Certification No. 23179

Licensed Professional Real Estate Inspector, State of Texas
License No. 5654

C. **EXPERIENCE:**

Senior Electrical Engineer
Verité Forensic Engineering, LLC.
December 2006 to Present

Forensic engineering analysis of disaster related incidents/accidents.

Senior Forensic Electrical Engineer
Unified Investigations & Sciences, Inc.
June 1998 to December 2006

Investigations performed include, but are not limited to, electrocution/electric shock evaluations, product liability injury and/or property evaluations, commercial/industrial electrical equipment failure analysis, illumination/lighting accident evaluations, and electrical potential fire cause determinations.

Design Engineer and Electrical/Instrumentation Field Superintendent
Howe-Baker Engineers, Inc.
1996 to 1998

Electrical design and project engineering for hydrogen plants; instrument and electrical field superintending for construction of hydrogen plants. Prepared electrical bid proposals, engineering designs, engineering specifications, and provided drafting supervision. Conducted plant pre-commissioning and checkout. Field supervised electrical and instrument contractors in project construction.

System Engineer
New Era Electric Cooperative, Inc.
1995 to 1996

System engineer in charge of utility system planning and new construction engineering. Conducted fault analysis, coordination studies, construction work plan preparation, right-of-way purchase, and engineering supervision of field personnel and drafting personnel.

Electrical and Instrument Project Engineer
Triangle Engineers and Constructors, Inc.
1991 to 1995

Electrical and instrument project engineer for industrial petrochemical projects. Carried out special in-plant assignments in refineries and chemical plants, including electrical design, instrumentation design, electrical studies, piping-and-instrumentation drawings, and operating manuals.

Electrical Design Engineer
Galewsky and Johnston Consulting Engineers, Inc.
1990 to 1991

Prepared and supervised designs for new commercial buildings, including schools and hospitals. Systems designed included service entrances, low voltage distribution and subsystems, lighting, branch circuit, communication, security/fire alarm systems and a variety of mechanical equipment connections. Duties included drawing preparation.

Electrical Design Engineer
Freese and Nichols Consulting Engineers, Inc.
1985 to 1986

Prepared and supervised designs for new and existing municipal plant facilities. Systems designed included electric pumps and controls, instrumentation, and pipeline cathodic protection.

Electrical Engineer
Texas Power & Light Co.
1974 to 1977

System planning and design electrical engineer. Conducted system studies on a regional distribution system. Prepared and supervised engineering designs for system additions and modifications.

Planning/Distribution Engineer
Upshur-Rural Electric Cooperative Corp.
1971 to 1974

Utility planning engineer. Distribution engineering department head. Supervised engineering field personnel and field contract personnel.

D. SOCIETY MEMBERSHIPS/COMMITTEES:

Institute of Electrical and Electronic Engineers (I.E.E.E.)
International Association of Arson Investigators, Inc. (I.A.A.I.)

E. INSTRUCTION OF CONTINUING EDUCATION AND SEMINAR PRESENTATIONS

OSHA Safety-Related Work Practices for oil refinery personnel

Medium-Voltage Arcing in electric utility industry for volunteer fire departments

Electrical Grounding seminar for forensic engineering industry

Texas Department of Insurance certified continuing education courses presented for the insurance industry and related associations presented from 1999 to 2006

- Lightning
- Electric Power Systems – Transmission and Distribution
- Electric Power Systems – Premises Wiring Systems
- Electrical Injuries
- Electrical Appliances

Presented seminar on “Electric Utility Systems” at the Property Loss Managers Conferences in San Antonio, Texas, 2005

F. **CONTINUING EDUCATION AND SEMINARS ATTENDED:**

IAAI/AHAM Investigations of Electrical & Appliance Related Fires
Electrical Arc Flash Protection
Electrical System Grounding and Bonding
Gas and Electric Appliance Fire Investigation
UIS Fire Investigation and Forensic Engineering Orientation
Allen-Bradley Programmable Logic Controller Programming
NFPA National Electrical Code
Electrical System Distribution Mapping Software
Milsoft Electrical System Distribution Analysis Software
Radio Multiplexing
University of Texas Electrical Power Seminar

G. **COURT QUALIFIED:**

Qualified as an expert witness on multiple occasions in both state and federal courts.

H. **PUBLISHED ARTICLES:**

“Catastrophic Failure in Undersized Electrical Equipment,” Focus on Forensics, 2003.