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EDUCATION

- Public School graduate, Charleston, South Carolina
- Bachelor of Science in Electrical Engineering, Georgia Institute of Technology, 1968
- Masters Degree in Business Administration, University of Southern California, 1970

PROFESSIONAL REGISTRATION

Registered Professional Engineer in South Carolina/1982

PROFESSIONAL EXPERIENCE

Consulting Engineer d/b/a Orbital Engineering and Consulting, LLC in individual private practice. Design clients include private owners, architects, government agencies, and institutions. Design of building Mechanical, Electrical and Plumbing (MEP) systems. Consultant for issues relating to building MEP systems. Forensic consulting for owners, insurance companies, attorneys, and public fire departments. 1985 - Present

Electrical Contractor d/b/a Orbital Electric. Field experience includes residential, commercial, institutional, and government projects in the Charleston area. 1980 - 2008

Volunteer, U.S. Peace Corps, Kabul, Afghanistan. Instructor, Faculty of Engineering, Kabul University. Taught Afghanistan's first course in computer programming. Technical training consultant to United National Development Programme Conservation and Ministry of Education projects. Emergency service as U.S. Embassy administrative officer. 1978-1979

Product Marketing Engineer, Varian Associates, Solid State Group, Palo Alto, California. Responsible for applications and O.E.M. marketing of microwave amplifier and oscillator product lines. 1975-1977

Product Marketing Manager, Exar Integrated Systems, Sunnyvale, California. Responsible for original equipment manufacturer marketing for standard and custom linear integrated circuit products. 1974-1975

Product Marketing Engineer, Fairchild Semiconductor Research and Development, Palo Alto, California. Assisted in product and market development for discrete microwave FETs and LEDs for Microwave and Optoelectronics Division. 1973-1974

Officer in U.S. Army Signal Corps in charge of UHF and Troposcatter sites STRATCOM, Taiwan. Communications attaché, Defense Liaison Group, responsible for Naval HF communications, Indonesia. 1970-1972.

FORENSIC PROFESSIONAL EXPERIENCE

- Investigation of fires, especially electrical, for origin and cause.
- Accident reconstruction of motor vehicle, train, pedestrian and bicycle accidents.
- Forensic engineering investigations of product failures, accidents and electrocutions.
- Qualified as expert witness by South Carolina Circuit Court Judges in several Judicial Circuits in fields of Engineering; Building Codes; Fire Origin and Cause; and Accident Reconstruction.
- Qualified as expert witness by South Carolina Federal Court Judges as expert in Safety for Machine Access and Accident Reconstruction.

FORENSIC PROFESSIONAL EXPERIENCE-Continued

- ACTAR Accredited Traffic Accident Reconstructionist (*The Accreditation Commission for Traffic Accident Reconstruction*).
- NAFE Certified Senior Member Forensic Engineer (*National Academy of Forensic Engineers*)
- Presented paper "Defective Information May Make a Defective Product" at NAFE January 1998 Meeting, Reno, Nevada.
- Published article *Defective Information May Make a Defective Product*; Journal of the National Academy of Forensic Engineers, Vol XV, No. 1, June 1998.
- Presented Seminar "*The Benefits of Forensic Engineering*" to Special Investigations Unit, Carolinas-Georgia, Recognition-Training Meeting, October 22, 1998.
- Presented paper "Case Study: Engineering Inaccuracies in a Police Department Investigation of a Fatal Accident" at NAFE July 1999 Meeting.
- Published article *Case Study: Engineering Inaccuracies in a Police Department Investigation of a Fatal Accident*, Journal of the National Academy of Forensic Engineers, Vol XVIII, January 2000.
- Panelist, CNN's Burden of Proof, February 22, 2000.
- Presenter, *Advances in Environmental Mold Issues in South Carolina*, Lorman Education Services, North Charleston, SC, August 25, 2004.
- Presenter, *Advances in Environmental Mold Issues in South Carolina*, Lorman Education Services, North Charleston, SC, August 12, 2005.
- Published article *The Case of the Misplaced Air-Handling Unit*, EC&M, The Magazine of Electrical Design, Construction & Maintenance, Volume 107, No. 12, December 2008.
- Presenter, *Building Codes*, Lorman Education Services, Mount Pleasant, SC, November 16, 2010.
- Published article *The Case of the Exploding Capacitor*, EC&M, The Magazine of Electrical Design, Construction & Maintenance, Volume 110, No. 5, May 2011.
- Published article *The Case of the Exploding Chain Saw*, EC&M, The Magazine of Electrical Design, Construction & Maintenance. Volume 111, Issue 6, June 2012.
- Published article *A Case of Unforeseen Consequences*, The ACHRNEWS, August 6, 2012.
- Presented paper "Forensic Engineering Analysis of Mold Damage Due To High-Efficiency HVAC" at NAFE July 2013 Meeting, Minneapolis, Minnesota (July 20, 2013).
- Published article *Forensic Engineering Analysis of Mold Damage Due to High Efficiency HVAC*, Journal for the National Academy of Forensic Engineers®, Vol. XXX, No. 1, June 2013

FORENSIC TRAINING

- Upper South Carolina Arson Task Force Service: Arson Investigation School (October 3-7, 1983)
- National Academy of Forensic Engineers (NAFE): Accident Reconstruction (May 1988)
- University of Wisconsin: Fire Investigation
- IAAI: Fire Investigation
- Northwestern University: Accident Reconstruction (September 1991)
- International Association of Accident Reconstruction Specialists (IAARS): Accident Reconstruction
- IAARS Seminar Presenter: "Computerized Accident Reconstruction" (July 1992)
- IAAI: "Commercial/Industrial Fire Investigation Seminar" (February 11-13, 1993)
- National Association of Professional Accident Reconstruction Specialists (NAPARS): "Advanced Collision Analysis and Accident Reconstruction I" (October 13-16, 1993)
- SC Insurance Fraud Investigators (SCIFI) Seminar Presenter: "Computer Accident Reconstruction" (March 3, 1994)
- University of Wisconsin: "The Role of Warnings and Instructions" (March 22-24, 1995)
- The Charles Turner Institute for Engineering Codes: "Deciphering the NFPA Mechanical Engineering Codes" (April 18, 1995)
- SCIAAI: "Mobile Home Fires" (May 24-25, 1995)
- NAPARS: '96 Joint Annual Conference (Oct. 2-4, 1996)

FORENSIC TRAINING - Continued

- University of Wisconsin: “Structural Engineering for the Non-Structural Engineer” (November 17-20, 1997)
- NAFE: 1998 Winter Meeting, Reno, Nevada (January 31 - February 2, 1998)
- NAFE 1999 Summer Meeting, Spokane, Washington (July 16 -20, 1999)
- Lee S. Cole & Associates, Inc.: “Investigation of Vehicle Fires” (November 6-7, 2000)
- Small Group Seminar VI, Presented by Dr. Vyto Babrauskas: “The Physics of Electrical Fires” (April 2, 2004).
- Lorman Educational Services: “Construction Defect Claims from the Owner’s Perspective” (March 22, 2005)
- SCSPE: “Legal Update for Design Professionals (“Things I Wish I’d Learned Yesterday”)” (May 17, 2005)
- NAFE Seminar “General Topics in Forensic Engineering”, January 15, 2011, Tucson, AZ
- ”14th Annual Insurance Fraud Training Seminar”, sponsored by the South Carolina Insurance Fraud Investigators (November 7-8, 2011)

PROFESSIONAL SOCIETY ACTIVITIES

- Past President, Charleston Chapter, South Carolina Society of Professional Engineers
- Past President, South Carolina Society of Professional Engineers (SCSPE)
- 1997 Engineer of the Year by the Charleston Engineers Joint Council