

Mr. Raeburn has extensive experience in the areas of forensic electrical engineering to resolve disputes and address technical issues for the insurance and legal communities. As an Electrical Engineer for 28 years, Mr. Raeburn has tested and evaluated products for potential hazards and has investigated more than 1,400 losses including fires, electrical injuries, equipment damage, explosion and system failures. Mr. Raeburn has testified frequently as an expert witness at trial, deposition and arbitration.

Licensure and Certification

- Licensed Professional Engineer in Florida, #48270
- Certified Fire and Explosion Investigator, National Association of Fire Investigators #18725-10358

Formal Education

- Bachelor of Science in Electrical Engineering, University of Central Florida, 1988

Professional Development

- Laws and Rules for FL Engineers, 2017
- Ethics for the Practicing Engineer, 2017
- National Electrical Code Changes, 2017
- Structures of Metals, 2017
- Properties of Metals, 2017
- Printed Circuit Boards, 2017
- Laws and Rules for FL Engineers, 2015
- Surge Protection, 2015
- IAFI Webinar, "Wrongful Arson Prosecution," 2014
- IAFI Webinar, "Hazard and Risk Assessment," 2014
- IAFI Webinar, "Fire Scene Safety," 2014
- IAFI Webinar, "10 Common Fire Scene Errors," 2013
- NAFI Advanced Fire, Arson, and Explosion Investigation Training Program, 2013
- NAFI Fire Analysis Litigation Seminar, 2013
- IAAI International Training Conference, 2013
- Laws and Rules for FL Engineers, 2013
- Electrical Conductor Sizing, 2013
- Sizing Electrical Utility Service Entrance Equipment, 2013
- Laws and Rules for FL Engineers, 2011
- Commissioning of Building Systems, 2011
- Construction Administration: MEP Commercial Buildings, 2011
- Electrical Protection Grounding, 2011
- Laws and Rules for FL Engineers, 2009
- NEC Grounding, 2009

Curriculum Vitae

James C. Raeburn, P.E., C.F.E.I.



- Laws and Rules for FL Engineers, 2007
- Overcurrent Protection: Short-circuit Calculations, 2007
- Smart Growth Workshop, Dallas, TX, 1999
- Railroad Communications Workshop, Washington, DC, 1999
- Arc Flash Hazard Analysis, 2007
- Laws and Rules for FL Engineers, 2005
- OSHA Electrical Regulations, 2005
- Laws and Rules for FL Engineers, 2003
- Florida Building Code Seminar, 2003
- FACAP Annual Seminar, 2001
- IAAI National Seminar, 2000
- FACAP Annual Seminar “New Technology Issues” relating to fire investigation, 1999
- SEA Test Burnings of Governor’s Mansion; Columbus, Ohio, 1999
- IESNA Lighting Seminar; Charlotte, North Carolina, 1999
- Fire Findings Laboratories Investigation of Gas and Electric Appliance Fires, 1997
- IEEE National Electrical Safety Code Seminar; Tampa, Florida, 1996
- SEAK National Expert Witness and Litigation Seminar; Hyannis, Massachusetts, 1996
- FACAP Annual Seminars; State Fire College, Ocala, Florida; taught classes regarding fire investigation and evidence presentation, 1994-1998, 2013
- NFPA National Electrical Code Seminar; Orlando, Florida, 1993

Professional Affiliations

- National Society of Professional Engineers (NSPE)
- Florida Engineering Society (FES)
- Institute of Electrical and Electronics Engineers (IEEE)
- National Fire Protection Association (NFPA) and Electrical Section of same
- National Association of Fire Investigators (NAFI)
- International Association of Arson Investigators (IAAI) and Florida Chapter of same
- Florida Advisory Committee on Arson Prevention (FA-CAP)
- Lightning Protection Institute (LPI)

Professional Experience

- Project Manager, Forensic Engineering Technologies, Lake Mary, FL, 2017– present
- Owner/Forensic Electrical Engineer, ProClarus, Oviedo, FL, 2000 – 2017
- Senior Engineer, Electrical, S.E.A., Inc., Orlando, FL, 2000
- Project Engineer, Electrical, S.E.A., Inc., Orlando, 1989 - 2000

Patents

- Patent Pending for Portable Work Surface, File # 61/792,017, aka “FloataBoard”, a self-supporting, wear-able clipboard/work surface to promote efficient note-taking, including during forensic inspections.

Publications

- Contributor to Fire Findings Article “Protocol Primer” Winter 2005, Vol. 13, No.1 discussing the preparation of forensic inspection protocols.