



Advanced Engineering Investigations

BRIAN N. STRANDJORD, PE, CFEI

Mr. Strandjord is a licensed mechanical and electrical professional engineer with an extensive and diverse background. His experience ranges from thermal analysis of individual electronic components and assemblies to the design, implementation, and operation of automation systems for control of HVAC, mechanical, and lighting systems in large facilities. Mr. Strandjord's background also includes extensive hands on fabrication and welding experience including production of commercial and military aircraft components. Mr. Strandjord has investigated incidents involving fires and explosions as well as other mechanical and electrical failures.



LICENSURE & EDUCATION

Licensed Professional Engineer in California, Colorado, Hawaii, Idaho, Kansas, Kentucky, Montana, Nebraska, New Mexico, North Dakota, South Dakota, Utah, and Wyoming.

Passed Professional Engineering licensing exams in both mechanical and electrical engineering.

Bachelor of Science in Mechanical Engineering, University of Colorado, 2005

Fire Investigator Technician (FIT), International Association of Arson Investigators (IAAI), 2017

Certified Fire and Explosion Investigator (CFEI), National Association of Fire Investigators (NAFI), 2015

Certified Level 1 Infrared Thermographer, 2015

FCC General Radio Telephone Operators License (GROL) with Radar Endorsement, 2005

FCC Extra Class Amateur Radio Operators License, 2003

Certified Weigher License, Colorado Department of Agriculture, 2015

WORK HISTORY

Project Engineer, *AEI Corporation*, 2019-Present

West Region MEP Division Manager, *Rimkus Consulting Group, Inc.*, 2014 to 2019

Project Manager, *PM Services Company*, 2013 - 2014

Project Engineer II, *Trane Company*, 2008 to 2013

Adjunct Faculty Member, *Metropolitan State College of Denver*, 2007

Aerospace Welder, *Stanley Aviation*, 2006 – 2008

Project Engineer, *Coretec Denver, Inc.*, 2004-2005

Mechanical Engineer, *Thermal Management, Inc.*, 2003 - 2004

EXPERIENCE

Mr. Strandjord has investigated failures in a wide range of mechanical and electrical systems, such as consumer products, lithium battery powered equipment, gas and electric appliances, building systems, commercial and industrial machinery, and electrical switchgear. He has conducted site inspections and laboratory examinations to determine the root cause of machine and device failures ranging from equipment breakdown to catastrophic failures, including fires, explosions, and significant injuries. Mr. Strandjord is experienced in the investigation of electrical accidents including shocks and electrocutions. He has provided mechanical and electrical engineering expert witness testimony for matters in both state and federal courts.

AFFILIATIONS

American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

International Association of Arson Investigators (IAAI)

National Association of Fire Investigators (NAFI)