



Advanced Engineering Investigations

SCOTT D. RASZEJA, MS, INTPE, CFEI, CID+

Mr. Raszeja is an electrical forensic expert with over 20 years of experience as an Electrician and Electrical Engineer. He is an expert in market certifications for products, including both product safety and electromagnetic compatibility certification. Mr. Raszeja investigates electrical faults and malfunctions, particularly those suspected of causing a fire, equipment damage, shock, or electrocution. He reconstructs failures to determine the mode, sequence, or component of failure, resulting in the damage to equipment or individuals.



LICENSURE & EDUCATION

Licensed Professional Engineer in Alabama, California, Colorado, Florida, Georgia, Indiana, Kentucky, Montana, North Carolina, Oklahoma, Pennsylvania, South Carolina, Tennessee, and Texas

NCEES Model Law Engineer

NCEES International Registry for Professional Engineers

NCEES International Registry for Professional Engineers

MS, Electrical Engineering, University of Alabama at Birmingham, 2010

BS, Electrical Engineering, Milwaukee School of Engineering, 1997

IPC Certified Interconnect Designer (CID) of Printed Circuit Boards, 2005

IPC Certified Interconnect Designer (CID+) of Printed Circuit Boards, 2019

IPC Certified – Advanced Troubleshooting and Defect Analysis of PCBs, 2021

Certified Fire and Explosion Investigator (CFEI), 2016

WORK HISTORY

Senior Project Engineer, *AEI Corporation*, 2019 to Present

Project Engineer, *AEI Corporation*, 2017 to 2018

Forensic Engineer, *SEA Ltd.*, 2014 to 2017

Operations Manager, *Xylem | OI Analytical | CMS Field Products*, 2008 to 2014

Research and Development Manager, *Xylem | OI Analytical | CMS Field Products*, 2006 to 2014

Engineering Manager, *Xylem | OI Analytical | CMS Field Products*, 2005 to 2014

Senior Electrical Engineer *Xylem | OI Analytical | CMS Field Products*, 2002 to 2006

Electrical Engineer, *Xylem | OI Analytical | CMS Field Products*, 1999 to 2002

Electrical Engineer, *Vulcan Engineering*, 1998 to 1998

Construction Electrician, *Roman Electric*, 1989 to 1992

ELECTRICAL EQUIPMENT AND PRODUCTS

Mr. Raszeja is a product specialist with experience in reverse engineering, market certifications (UL, CE, etc.), Printed Circuit Board design, electronic design, system level design, and battery operated devices. Mr. Raszeja also analyzes various electrical power equipment and systems including compliance with the National Electrical Code and the National Electrical Safety Code, and conducts site visits and laboratory examinations to determine the root cause of product or electrical system failures. Mr. Raszeja has designed and installed residential, commercial, and industrial electrical systems that comply with the National Electrical Code and has conducted hundreds of investigations of product and equipment failures, electrocutions, shocks, and fires.

AWARDS AND ACCOMPLISHMENTS

Invited speaker on Electrical Systems at numerous seminars.

Certificate of Achievement (NFPA 70, National Electrical Code, 2014 and 2017)

AFFILIATIONS

National Fire Protection Association (NFPA)

Institute of Electrical and Electronics Engineers (IEEE)

Product Safety Engineering Society (PSES – IEEE)

Industry applications Society (IAS – IEEE)

National Society of Professional Engineers (NSPE)

International Association of Arson Investigators (IAAI)

IPC Designers Council (IPC)

National Academy of Forensic Engineers (NAFE)

Member of the National Association of Fire Investigators (NAFI)