

Professional Summary:



Mr. Nicholas Quigley is a Forensic Mechanical EIT for EFI Global in Canada and brings new knowledge of technology and failure modes and effects analysis (FMEA) to the forensic engineering field.

Mr. Quigley's background includes investigation, assessment and report production for a broad range of failures for the insurance and legal professions. Specific areas of experience include fire investigation, slip, trip and fall, product failures, material assessments, battery technology and systems, control systems, programming, data analysis, failure analysis, cause and origin assessments, and product liability matters.

He is fluent in both French and English.

Project Experience:

EFI Global, Richmond Hill, Ontario – Responsible for the development and delivery of forensic engineering services with the goal of assisting in the resolution of claims and liability for clients in the legal and insurance areas. Performs failure analysis for appliances, products, materials, and mechanical devices. Performs fire and personal injury investigations. Performs a variety of cause and origin assessments. Delivers professional reports on forensic files. Performs analysis and reports on design, maintenance, best practices, and testing codes. Performs analysis and reports of component and product design, manufacturing practices, best practices, failure modes and effects analysis (FMEA) and liability assessments. Performs analysis and reports on battery and battery system related investigations.

Professional Experience:

EFI Global Canada 2019 – Present

Forensic Mechanical EIT

EFI Global Canada 2017

Engineering Intern

Education:

Health Science Diploma – Dawson College, Montreal

Mechanical Engineering Degree – Wayne State University, Detroit

Affiliations:

Order of the Engineer
Canadian Association of Fire Investigators (CAFI)
National Association of Fire Investigators (NAFI)
International Association of Arson Investigators (IAAI)
ASTM International
ASM International
SAE International

Courses:

Solving the Unsolvable (CAFI) – May 2019
NFPA 472 Hazardous Materials Awareness (FESTI) – October 2019
Principles of Fire Investigation (IAAI) – January 2020
Arc Mapping Basics (IAAI) – January 2020
Introduction to Appliances (IAAI) – January 2020
Investigating Motor Vehicle Fires (IAAI) – January 2020
Wildland Fires Investigation (IAAI) – January 2020
Metal Failure Analysis (ASTM) – March 2020
Introduction to Youth-Set Fires (IAAI) – April 2021
Electric & Hybrid Vehicle Fires (IAAI) – May 2021
Lithium-Ion Battery Fires (IAAI) – June 2021
Plastic Fundamentals: Properties and Causes of Failures (PDH) – December 2021
Introduction to Youth Set Fires (IAAI) – April 2022
Classification of Corrosion Failures (PDH) – April 2022
NFPA 1033 & 921: 2022/2021 Editions Important Updates (IAAI) – September 2022
Fire Protection Systems (IAAI) – September 2022
Emerging Technologies in Fire Investigation (IAAI) – January 2023
Photovoltaic Cells & Systems (IAAI) – January 2023
Site Safety Assessment (IAAI) – February 2023
Introduction to Metallurgical Failure Analysis (PDH) – February 2023

Certifications & Licenses:

NFPA 472 – Hazardous Materials Awareness
Drone Pilot License Basic Operations – Small Remotely Piloted Aircraft System, Visual line-of-sight