



Tristan Delorme

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Forensic Engineer

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CONTACT

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Tristan is a Forensic Engineer and a Certified Fire and Explosion Investigator. He has a degree in Electrical Engineering and a degree in Biomedical Science from the University of Ottawa. His professional experience includes conducting fire scene investigations, failure analyses, and examinations. Tristan has attended and investigated over 650 fire scene investigations and evidence examinations.

EDUCATION

University of Ottawa

Bachelor of Applied Science Electrical Engineering with a Specialization in Power and Sustainable Energy
Ottawa, Ontario, Canada
2019

University of Ottawa

Bachelor of Science Honours in Biomedical Science
Ottawa, Ontario, Canada
2014

TECHNICAL AFFILIATIONS

- Association of Professional Engineers of Ontario, Professional Engineer since 2024
- Canadian Association of Fire Investigators (CAFI)
- National Association of Fire Investigators (NAFI)
- International Association of Arson Investigators (IAAI)

CERTIFICATIONS

- Certified Fire and Explosion Investigator (CFEI)

PROFESSIONAL EXPERIENCE

Ottawa Operations Manager, Forensic Engineer

OCI Group (Formerly Origin and Cause Inc.)

Ottawa, Ontario

April 2024 – Present

Forensic EIT

OCI Group (Formerly Origin and Cause Inc.)

Ottawa, Ontario

June 2019 – April 2024

- Conducted structural and electrical equipment fire investigations, scene examinations, documentation, and evidence collection
- Completed forensic investigations involving research, failure analysis and reporting
- Investigated electrical and electronic appliance and equipment malfunctions

Junior Research and Development Engineer

Communications Research Centre Canada

Ottawa, Ontario

January 2018 – May 2018

- Utilized C++ and C to engineer programs designed to work with a larger project
- Assisted researchers in developing a prototype system that monitored and analyzed spectrum usage in real time
- Envisioned, developed, and synthesized code that gathered all diagnostic information through object-oriented programming
- Optimized GPS technology to a larger degree of accuracy using RTK technology

Junior Forensic Investigator and Engineer

OCI Group (Formerly Origin and Cause Inc.)

Mississauga, Ontario

May 2017 – September 2017

- Analyzed circuits, and determined methods and modes of failure by testing continuity of circuits, and applying core circuit theory and electronics concepts
- Operated various tools and equipment to conceptualize, build and develop equipment used to test evidence
- Conducted arc mapping and scene documentation
- Critically and logically broke down the sequence and mapped the timeline of origin, first fuel ignited and ignition source
- Provided metallurgical and mechanical analysis of faucets, toilet connectors, conduits and vehicles
- Attended over 27 fire scenes working alongside seasoned engineers
- Present at 53 in/out of lab examinations with parties with a vested interest
- Created an 18-page initial document for the business continuity and disaster recovery plan

Evidence Coordinator

OCI Group (Formerly Origin and Cause Inc.)

Mississauga, Ontario

October 2014 – July 2015

- Handled, maintained and organized the evidence for both storage facilities for quick and expedited retrieval upon examination
 - Optimized space by devising and implementing a new storage method (to which they use today) to increase efficiency
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FURTHER TRAINING & EDUCATION

- Investigative Interviewing Course, Investigative Solutions Network, Pickering, Ontario (October 18–19, 2022)
- Leadership for Emergency Responders, NAFI (January 25, 2022)
- CFEI Certification (July 2021)
- NFPA 921 Certified Fire and Explosion Investigation Program, FESTI, Mississauga, Ontario (June 21–25, 2021)
- Arson For Profit Seminar, IAAI (March 25, 2021)
- Unique Challenges of Investigating Fires in Extreme Cold, CAFI (February 18, 2020)
- Barn Fires: Causes and Methods on Investigating, CAFI (December 11, 2019)
- Gas and Electric Appliances (November 5–8, 2019)
- Fuel Explosions An Overview of National Gas and Propane Systems and How They Are Related to Fire Causes, CAFI (September 24, 2019)
- NFPA 921 Fire and Explosion Investigator Course, IAAI, Grimsby, Ontario (May 6-10, 2019)
- Working in Heights, (July 3, 2019, April 14, 2025)
- Residential Electricity for Fire Investigators, Fire Findings, Benton Harbor, Michigan (September 11–13, 2019)
- Vehicle Fire Course, IAAI, Ottawa, Ontario (May 24–26, 2017)
- NFPA 1033 – The New Requirements for Fire Investigator Qualifications, CAFI
- 8 Online CFI Courses (acknowledged by IAAI)
 - Lithium-Ion Battery Fires (September 18, 2023)
 - Using Resources to Validate your Hypothesis (May 19, 2017)
 - Vacant and Abandoned Buildings: Hazards and Solutions (May 17, 2017)
 - Writing the Initial Origin and Cause Report (May 17, 2017)
 - The Scientific Method for Fire and Explosion Investigation (May 16, 2017)

- Understanding the Fire Investigator's Job: A Guide for Non-Investigators (May 16, 2017)
 - NFPA1033 and Your Career (May 10, 2017)
 - Accreditation, Certification, and Certificates (May 10, 2017)
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PROJECTS

Pressure Sensor Operated Electric Motorized Longboard

Designed, constructed and implemented an electric motorized longboard that operated on pressure sensors found on the surface of the board.

Sump Pump Testing Rig

Designed and constructed a rig used to perpetually test sump pumps for failure. The rig was able to provide and store the voltages and current in real time over the duration of the test.

4th Year Honours Project Of BIM Degree

Conducted research on the susceptibility and resistance of genetically modified Chinese Spring Wheat infected with fusarium graminearum.