



Tuna Yuzgyur, C. Tech, CFEI, CCFI-C

Fire and Explosion Investigator

Contact: 647-771-1301

Tel: 844-235-8565

TunaYuzgyur@roarengineering.com

Education

HUMBER COLLEGE, ONTARIO

2016 - 2019

Mechanical Engineering Technology with Honours

Cimetrix Scholarship Recipient for an outstanding Capstone Project partnering with AMAG

Experience

ROAR ENGINEERING

Fire and Explosion Investigator

2026- PRESENT

PARIO ENGINEERING AND ENVIRONMENTAL SERVICES, CONCORD

Fire and Explosion Investigator

2023 - 2026

Conducted thorough fire investigations for insurance companies, law firms, and other clients to determine the origin and cause of fires and identified potential fire hazards to prevent future incidents in accordance with NFPA 1033.

Collected and analyzed physical and circumstantial evidence to develop and support hypotheses and conclusions about the origin and cause of fire incidents.

Conducted interviews of witnesses, first responders, and other parties to gather information about the fire and build a comprehensive understanding of the situation.

Collaborated with other agencies and stakeholders, such as law enforcement, insurance companies, and building officials, to share information and coordinate efforts.

Maintained detailed and accurate documentation of investigations, including written reports, photographs, sketches, and diagrams.

Conducted fire safety inspections of buildings and properties to identify potential hazards and violations of fire codes, standards, and regulations.

Maintained professional communications with insurance adjusters, other private investigators, fire prevention officers, Ontario Fire Marshal Fire Investigators.



Conducted joint exhibit examinations with other parties including the public sector investigators.

Lead complex fire scenes with multiple fire investigators and instructed heavy machinery to help with excavations of the fire debris in a systematic order.

Created and wrote excellent technical fire investigation reports ranging from preliminary reports to full formal detailed reports for clients.

Utilized laboratory environments to examine exhibits as well as assisting in X-ray imaging of exhibits.

Responsible for training of other employees for scene investigations and report writing.

Performed technical review of fire investigation reports.

T. SMITH ENGINEERING INC., TORONTO
Forensic/Fire Investigator

2019 – 2023

Conducted thorough fire investigations for insurance companies, law firms, and other clients to determine the origin and cause of fires and identified potential fire hazards to prevent future incidents in accordance with NFPA 1033.

Collected and analyzed physical and circumstantial evidence to develop and support hypotheses and conclusions about the origin and cause of fire incidents.

Conducted interviews of witnesses, first responders, and other parties to gather information about the fire and build a comprehensive understanding of the situation.

Collaborated with other agencies and stakeholders, such as law enforcement, insurance companies, and building officials, to share information and coordinate efforts.

Utilized body cameras for capturing the scene.

Created and wrote excellent technical fire investigation reports ranging from preliminary reports to full formal detailed reports for clients.

Responsible for training of other employees for scene investigations and report writing.

EUROTEC INC., MISSISSAUGA
Mechanical Designer

2018 – 2019

Created and inventoried 3D models for production for a high precision inkjet using SolidWorks.

Designed and produced 2D models for the operation at the CNC.

Measured using calipers and micrometers, dimensioned and redesigned various parts of an ink jet printing machine.

Performed quality control check of the parts received and tested operability.

Serviced and performed maintenance for screen printing machines.

Performed machining operations on the milling machine and turning on the conventional lathe.



Developed chassis models for the research project of oil skimmer autonomous boat.

Researched and outsourced materials that are needed as well as optimizing cost reduction.

Conducted a Stress Analysis using FEA software in order to calculate stresses and deflection.

Prepared technical reports as well as market research for the most affordable parts.

Made sure that the design of the chassis is flexible and interchangeable for future stages.

Communicated with industry leaders for potential partnerships.

WELBILT, GARLAND COMMERCIAL RANGES LTD., MISSISSAUGA
Production Assembly Assistant

2018

Worked on the assembly line by putting parts together and made sure that safety labels and packaging was done properly.

Completed subassemblies for the griddles, burners, propane ovens using powered hand tools.

Assembled high quality commercial kitchen ranges, stove tops, griddles and deep fryers in a timely manner.

Distributed parts to ensure adequate supply of stock across the plan.

Took inventory of parts going into high-end McDonald's units.

SKILLS AND QUALIFICATIONS

Extensive knowledge of fire investigation techniques, procedures and protocols with an engineering background in accordance with NFPA 1033 and NFPA 921.

Experienced in using various tools and equipment for investigating fires, such as DSLR cameras, circuit tracers, evidence collection kits, microscopes, ultrasonic cleaners, sifting screens, excavation equipment, air quality monitors, scanning software for layouts.

Familiarity with building codes, standards, and regulations related to fire safety and protection.

Proficient in report writing and documentation utilizing and excellent oral communications with clients and other stakeholders.

Strong attention to detail and ability to maintain accuracy in investigations.

Physically fit and able to work in hazardous environments and conditions.

In possession of a valid Ontario Driver's license class "G" with clean history of driving.



TRAINING, EDUCATION & CERTIFICATIONS

Certified Fire and Explosion Investigator (CFEI), National Association of Fire Investigators (NAFI), September 2021

Canadian Certified Fire Investigator Level C (CCFI-C), Canadian Association of Fire Investigators (CAFI), October 2021

NFPA 921 – Certified Fire and Explosion Investigator (CFEI), 2021 (Mississauga, ON)

Fire Investigator's course hosted by the Fire and Emergency Services Training Institute (Pearson International Airport – FESTI). Attended one weeklong course teaching to the standard of NFPA 921 by Gary Jarrett with a successful completion of an exam. Attended 5 test burn cells which included living room, bedroom and office space using ignitable liquids, combustibles.

CFI Trainer Net – IAAI-CFI, 2021 – 2023 (CFITrainer.net)

Online courses related to fire investigations hosted by IAAI CFI training modules completed throughout the employment at T.Smith Engineering Inc. Earned a total credit hours of 223 hours with completion certificates for 67 individual module.

Electrical Aspects of Fire Investigation, IAAI, 2025 (North Vancouver, BC)

A three day long in class and lab which specialized in identifying electrical ignition sources, arc mapping, and circuit failure analysis (overloads, short circuits, and ground faults) per NFPA 921 and 1033 standards.

PROFESSIONAL AFFILIATIONS

Ontario Association of Technicians and Technologists (OACETT), Certified Technician (C.Tech.) – December 2024

National Association of Fire Investigators (NAFI) – September 2021

Canadian Association of Fire Investigators (CAFI) – October 2021

SUMMARY OF PROFESSIONAL STRENGTHS

Possesses extensive knowledge of fire investigation techniques, procedures, and protocols. Completed over 300 fire investigations to date which included large losses, fatal fires, explosions and complex fire scenes. Have a strong background in engineering with a focus on fire investigation using scientific methods and engineering principles. Knowledgeable in fire codes, standards, and regulations related to fire safety and protection.

