



Ben Langlois, P.Eng.

B.A.Sc., CFEI, CVFI
Mechanical Engineer

Contact:

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Education

QUEEN'S UNIVERSITY, KINGSTON, ON

2022

Bachelor of Applied Science, Mechanical Engineering

Smith School of Business – Certificate in Business (CIB)

ST. MAXIMILIAN KOLBE CHS, AURORA, ON

2017

Honours High School Diploma – Ontario Scholar

Experience

ROAR ENGINEERING

2019– PRESENT

Vehicle and Equipment Fire Investigations & Accident Reconstruction

Conducted home, vehicle, and equipment fire investigations to determine the fire's origin and cause. Specialized in the analysis of fire-damaged motorized and recreational vehicles, encompassing those with internal combustion, hybrid, or electric propulsion systems, as well as diverse construction and farming equipment. Expertise lies in discerning fire and explosion origins, whether from arson, electrical anomalies/failures, hot surface ignition, or fugitive leaks in flammable fluids, such as transmission oil, engine lubricants, fuel, brake fluid, hydraulics, and other volatile substances. Extensive comprehension of the intricate dynamics of vehicle fires to facilitate a comprehensive understanding of fire incident circumstances for informed decision-making processes.

Responsible for state-of-the-art vehicle system data extraction and downloads to assist in conducting engineering reconstructions of motorized and recreational vehicles. Certified to remove and disassemble infotainment systems, telematic systems, airbag control modules, and electric control modules for data extraction and analysis.

Conducted reconstructions of vehicle accidents while considering impact speeds, pre- and post-impact sequences of events, and computer-assisted reconstruction. Analyzed accident reconstruction documentation, pre- and post-impact vehicle orientation and matched vehicle damage with momentum and force analysis to ensure the claimed circumstances matched the dynamic analysis of the impact and its damages.

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Responsible for inspecting stairs, ramps, and walking surfaces for compliance with applicable codes and standards, such as the Ontario Building Code, National Building Code of Canada, and Minimum Maintenance Standards. Conducted slip-testing analysis and building code compliance to assess liability in slip-and-fall and personal injury investigations.

Authored detailed engineering reports grounded in physical and digital evidence for all the above-listed descriptions.

INTERNATIONAL CUSTOM PRODUCTS

2020

Engineering Intern – Quality Assurance Technician Assistant

Ensured standard quality of Engineered Aerospace and Defence Products during manufacturing.

Assisted in the pivot of manufacturing focus to supply Level 1-3 Quality reusable medical gowns for local health care workers during the COVID-19 pandemic. Responsible for testing fabrics and stitching for Level 1-3 Quality medical gowns against AATCC 42 and AATCC 127 standards. Assisted in the design of an AATCC 127 testing apparatus.

CLUBLINK – KING'S RIDING GOLF CLUB

2018

Turf Maintenance and Equipment Operator

Operated handheld and motorized equipment daily to maintain course quality.

Inspected equipment and tools for defects to ensure a safe, clean, and organized facility.

Professional Credentials

Mechanical Engineer

PEO, 2026

Certified Fire and Explosions Investigator (CFEI)

NAFI, 2023

Certified Vehicle Fire Investigator (CVFI)

NAFI, 2023

Certified Vehicle System Forensic Technician (CVFT)

Berla, 2022

Certified Vehicle System Forensic Examiner (CVSE)

Berla, 2022

Professional Memberships

Association of Professional Engineers of Ontario (PEO)

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

Society of Fire Protection Engineers (SFPE)

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Additional Courses

**International Association of Arson Investigators (IAA) – Fall 2025 Seminar:
Legal Considerations in Fire and Arson Investigations**

**International Association of Arson Investigators (IAAI) – Spring 2024 Seminar:
Lithium-Ion Battery Fires**

Crash Data Specialists LLC – Crash Data Retrieval (CDR) System Operators Class
CATAIR, 2024

**Crash Data Specialists LLC – Crash Data Retrieval (CDR) System Analysis and
Applications Course**
CATAIR, 2024

Confined Space Safety Awareness & Entry Course
Industrial Safety Trainers Inc., August 2023. Ex. August 2026.

**Fundamentals of Fire Investigation Webinar – The Relationship Between
Compartment Fire Dynamics and Resulting Post-Incident Damage Patterns**
SFPE, 2022

Vehicle Forensics and iVe Certification
Berla, 2022

Academic & Athletic Awards

Justin Schwieg Trophy – Most Improved Player – Queen's Football	2022
USports Academic All Canadian	2022
Queen's Gaels Academic Allstar	2022
Dean's Honour List	2022
USports Academic All Canadian	2021
Queen's Gaels Academic Allstar	2021
Dean's Honour List	2021
OFSAA Colin Hood Leadership and Athletic Award	2017
CSA Group – Post Secondary School Scholarship Award Winner	2017
Queen's University Academic Achievement Scholarship Recipient	2017

