

# RYAN COCKLE

P.Eng., CFEI, CVFI, CFII



P.O. Box 40047  
Niagara Falls, ON L2E

## EDUCATION

B.Sc., Mechanical Engineering, 2005  
Queens University, Kingston, Ontario

## PROFESSIONAL LICENSING

Licensed Professional Engineer in the Province of Ontario

## TECHNICAL AFFILIATIONS

- Member, Canadian Association of Fire Investigators (CAFI)
- Past President of CAFI, South Central Ontario Chapter
- Member National Association of Fire Investigators (NAFI)
- Member International Association of Arson Investigators (IAAI)
- Member, Canadian Association of Special Investigation Units (CASIU)

## CERTIFICATIONS

- Certified NFPA 1033 Fire Investigator
- NAFI Certified Fire & Explosion Investigator (CFEI)
- NAFI Certified Vehicle Fire Investigator (CVFI)
- NAFI Certified Fire Investigation Instructor (CFII)
- Berla Certified Vehicle System Forensic Technician (CVST)
- Berla Certified Vehicle System Forensic Examiner (CVSE)

## PROFESSIONAL EXPERIENCE

### President & Lead Engineer, Vehicle Forensics Inc. ("VForensics Inc.")

- Responsible for investigation of vehicle fires, structure fires, mechanical vehicles failures, and collisions for insurers, manufacturers, and other stakeholders.
- Responsible for forensic acquisition of electronic vehicle data to supplement investigations.
- Management of all aspects of business operations including marketing, IT and strategic planning.

### Co-Director & Mechanical Engineer, Vehicle Forensics Inc.

July 2020 to December 2022

- Responsible for investigation of vehicle fires, structure fires, mechanical vehicles failures, and collisions for insurers, manufacturers, and other stakeholders.
- Responsible for forensic acquisition of electronic vehicle data to supplement investigations.
- Co-management of all aspects of business operations including marketing, IT and strategic planning.

### Mechanical Engineer, Origin and Cause Incorporated

August 2016 to June 2020

- Forensic investigation of vehicle, equipment, and structure fires to determine their origin and cause

- Electronic vehicle data acquisition and analysis for fraud investigations
- Forensic investigation of residential appliances to determine root cause of failure
- Forensic investigation of industrial equipment and machinery to determine regulatory compliance and causes of failures

### **Mechanical Engineer, Pario Engineering & Environmental Sciences**

March 2009 to August 2016

- Investigated approximately 350 vehicle, heavy equipment, and structure fires to determine their origin and cause
- Forensic investigation of vehicle electrical systems, building electrical systems, natural gas-fired appliances and solid fuel-fired appliances to determine their root cause of failure
- Assessment of building systems to determine compliance with applicable codes
- Preparation of various types of technical reports depending on client needs
- Review technical reports and provide litigation support

### **Product Designer and Manufacturing Engineer In-Training**

October 2005 to March 2009

- Investigate failed products returned from the field to determine their cause of failure
- Review mechanical and electrical designs of current products and revise designs to improve performance, reliability, manufacturability, and reduce costs
- Product development manager for a new line of pumps. Manage the project from conceptualization through to design and manufacturing
- Review and improve manufacturing processes and automation cells to improve cycle times and reduce scrap rate

## **FURTHER TRAINING AND EDUCATION**

- Staying out of the Fire – Understanding your role in fire investigations – October 2023 (CAFI)
- Vehicle Fire, Arson and Explosion Investigation Science and Technology Seminar – September 2023 (NAFI)
- Vehicle Investigations – June 2023 (IAAI Ontario)
- Forensic Photography Symposium – January 2022 (ai2-3D Forensics)
- NFPA 100 Fire Investigator – June 2019 (Ontario Fire College)
- Solving the Unsolvable – May 2019 (CAFI)
- Berla Vehicle Systems Forensics Training – May 2019 (Berla)
- Surviving a 1033 Challenge – May 16, 2018 (IAAI)
- Investigation and Identification of Incendiary Fires – April 18-19, 2018 (CAFI)
- Advanced Fire Dynamics, Arc Mapping, Burn Cell Investigation – April 20, 2017 (CAFI)
- Forensic Vehicle Fire Investigation – January 2017 (Fire Investigation Industries)

- Post-Flashover Fire Dynamics – April 2016 (CAFI)
- Commercial Kitchen Exhaust and Fire Protection Systems – April 2015 (CAFI)
- Woodburning Systems – March 2015 (WETT)
- Site Basic Inspector – March 2015 (WETT)
- Code Compliance – May 2014 (WETT)
- Overlooked Ignition Sources and Evidence Management – April 2014 (CAFI)
- Fire Investigation Educational Symposium – September 2013 (CAFI)
- Aerial Work Platform Operator Safety Training – March 15, 2013 (Wajax Equipment)
- Life of a Transformer – January 2013 (Doble)
- Lightning Basics for Investigators – November 2012 (CAFI)
- Admissibility of Expert Evidence – November 2012 (CAFI)
- Air France Disaster – November 2012 (CAFI)
- Fire Investigation Educational Symposium – October 2011 (CAFI)
- Investigating Solid Fuel-Burning Appliance Fires – October 2011 (Fire Findings Laboratories)
- South Central Ontario Chapter Fall Seminar – November 2010 (CAFI)
- Investigation of Gas and Electric Appliance Fires – November 2010 (Fire Findings Laboratories)
- Certified Fire Investigation Instructor – March 2010 (NAFI)
- Vehicle Fire, Arson and Explosion Investigation Science and Technology Seminar – September 2009 (NAFI)
- Advanced National Fire, Arson and Explosion Investigation Training Program – August 2009 (NAFI)
- Residential Electricity for Fire Investigators – May 2009 (Fire Findings)

## PRESENTATIONS

- Common Fire Causes – CAFI, October 2023
- Vehicle Arson Trends – CASIU, April 2022
- Three Most Common Vehicle Fires – Origin & Cause National Tour, October 2019
- Investigation of Agricultural Equipment Fires – Solving the Unsolvable (CAFI), May 2019
- Origin Determination in Vehicle Fires – Vehicle Fire Investigations (IAAI), May 2017
- Solar Photovoltaic Design and Installation: Fire, Explosion & Other Personal Safety Issues – 2012 Annual Engineering Insurance Conference (The Canadian Boiler and Machinery Underwriters' Association)
- Investigating Gas-Fired Appliance Fires – 2010 Fall Seminar (CAFI)

## PUBLICATIONS

- “Highway Vehicle Fires.” Without Prejudice. 2011.

## **COURT EXPERIENCE**

Qualified as an expert witness in the Ontario Court of Justice