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## Jason A. D'Ornellas, P.Eng.

Consulting Engineer, CFEI, CVFI  
Fire Investigation, Managing Partner

### Contact

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## Education

**MCMASTER UNIVERSITY**

**2001**

Bachelor of Engineering and Management, Electrical Engineering

## Experience

**ROAR ENGINEERING**  
Fire Investigation, Managing Partner

**2015 – PRESENT**

Origin and cause investigations for the following: residential, commercial and industrial fires and explosions; vehicle fires and explosions; electrical equipment failures; and, mechanical equipment failures. Investigations completed in accordance with NFPA 921 "Guide for Fire and Explosion Investigations" (over 1000 completed as lead investigator from start of employment in 2001).

Cause hypothesis testing involving the review of peer-reviewed research, independent testing and examination of exemplar devices or products.

Electrical shock incident investigations.

Review of applicable codes, standards, maintenance, and installation instructions for product/appliance/system.

Preparation of comprehensive reports for the above investigations, completed in accordance with the requirements for an Expert's report as required by the Rules of Civil Procedure.

**PARIO ENGINEERING (formerly Rochon Engineering Inc.)**  
Senior Forensic Engineer, Team Manager (2013 – 2015)  
Forensic Engineer, Team Manager (2010 – 2014)

**2010 – 2015**

Origin and cause investigations for the following: residential, commercial and industrial fires and explosions; vehicle fires and explosions; electrical equipment failures; and, mechanical equipment

failures. Investigations completed in accordance with NFPA 921 “Guide for Fire and Explosion Investigations” (over 1000 completed as lead investigator from start of employment in 2001).

Cause hypothesis testing involving the review of peer-reviewed research, independent testing and examination of exemplar devices or products.

Electrical shot incident investigations.

Review of applicable codes, standards, maintenance, and installation instructions for product/appliance/system being examined.

Preparation of comprehensive reports for the above investigations, completed in accordance with the requirements for an Expert’s report as required by the Rules of Civil Procedure.

Overseeing of Engineering work related to all of the above for a team of engineers specializing in fire investigation and electrical and mechanical failure investigations (2010 – 2015). These responsibilities included the following: peer review of origin and cause investigations performed by staff (over 800 completed); scheduling of new assignments based on expertise, experience and availability; providing budgets for clients and ensuring that budgets were met; budgeting for capital expenditures; staffing and training; review of and report card scoring for completed files based on internal key performance indicators; staff performance reviews; and, management level strategic planning.

Forensic Engineer, 2006 – 2009

Engineer in Training, 2001 – 2005

Student Experience, 1999 – 2000

## Professional Associations and Certifications

### **Professional Engineers Ontario (PEO)**

Licensed Professional Engineer (P.Eng.) and Consulting Engineer

### **National Association of Fire Investigators (NAFI)**

### **Canadian Certified Fire Investigator (CCFI)**

### **Certified Vehicle Fire Investigator (CVFI)**

### **Canadian Association of Fire Investigators (CAFI)**

### **National Fire Protection Association (NFPA)**

### **Society of Fire Protection Engineers (SFPE)**

### **International Association of Arson Investigators (IAAI)**

### **International Association of Electrical Inspectors (IAEI)**

Editor of the CAFI Journal, 2011 – 2016

### **WETT Certified SITE Basic Inspector**



## Additional Courses and Seminars

### **Brainfiller Inc.**

Power System Engineering  
Design of Electric Power Systems, Short Circuit Analysis, Protective Devices and Coordination Studied, Harmonic Analysis, March 2017

### **Wood Energy Technology Transfer Inc. (WETT)**

Code Compliance, Fall 2015  
Wood-burning Systems, Fall 2015  
SITE Basic Inspection, Fall 2015

### **The Electricity Forum**

Electrical Transformer Forum, 2013  
CSA Z463 Electrical maintenance and High Voltage Electrical maintenance Workshops, 2013

### **Canadian Association of Fire Investigators (CAFI)**

NFPA 921 Training Program, Spring 2002  
Forensic Photographs – Technical and Legal Issues Surrounding 35mm and Digital Photographs, Spring 2002  
Vehicle Fire Investigations  
Lightning Basics for Investigators, Fall 2012  
Admissibility of Expert Evidence, Fall 2012  
NFPA 921 & NFPA 1033 Development and Updates, Fall 2013  
Safety Features and Comparisons for Hybrid Conventional Vehicles, Fall 2013  
Battery Chemistry and Case Studies, Fall 2014  
Commercial Kitchen Equipment, Spring 2015  
Post-Flashover Fire Dynamics, Spring 2016

### **National Association of Fire Investigators (NAFI)**

Certified Vehicle Fire Investigator Course, 2009  
Ational Seminar on Fire Analysis Litigation, 2010

### **Fire Findings**

Fire Investigation Seminar – Investigation of Gas & electric Appliance Fires, November 2004  
Solid Fuel Burning Appliance Fires, October 2009

### **University of Waterloo**

Advances Fire Dynamics 9Compartment Fires), 2010

### **Educational Program Innovations Center (EPIC)**

Fundamentals of Electrical Distribution Systems, 2002  
Commissioning, Testing and Start-up of Electrical Systems, Fall 2002

### **Canadian Standards Association (CSA)**

2002 Canadian Electrical Code Essentials, December 2004

## Speaking Engagements

### **International Associate of Fire Investigators (Ontario) – NFPA 921 Training and Certification Course**

Lecturer – Introduction to Electricity & Fire, May 2019



**Canadian Association of Fire Investigators**

Lecturer - Arc Mapping – Webinar, June 2018

**Subrogation Training Seminars**

Presented to York Fire & Casualty Insurance Company, 2010

Presented to State Farm Insurance, October 2011

Presented to Economical Insurance, 2011

Presented to various insurance industry professionals, February 2012

**Canadian Boiler & Machinery Underwriters' Association**

**Annual Engineering Insurance Conference**

Solar Photovoltaic (PV) Design and Installation – “Fire, Explosion and Other Personal Safety Issues”

## Court Experience

Qualified and testified as an expert witness in the Ontario Court of Justice.

