

Alexa Grittani

CFEI, EIT, B.A.Sc, M.A.Sc



120 Watline Avenue, Unit 8
Mississauga, Ontario
L4Z 2C1

Email: agrittani@origin-and-cause.com
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EDUCATION AND TRAINING

MASC Mechanical and Industrial Engineering 2018-2020
University of Toronto, Toronto ON
Thesis: CFD modelling of evaporator pumps experiencing CaCo₃ scaling

BASC Mechanical Engineering, with Distinction 2013-2018
University of Waterloo, Waterloo ON

CERTIFICATIONS

- Certified Fire and Explosion Investigator (CFEI)

PROFESSIONAL REGISTRATION/LICENSING

- Professional Engineers Ontario (PEO)

PROFESSIONAL EXPERIENCE

Alexa is a Certified Fire and Explosion Investigator and forensic EIT. She has a Bachelor's degree in mechanical engineering from the University of Waterloo and a Master's degree in mechanical and industrial engineering from the University of Toronto. She has attended and investigated over 100 fire scenes.

January 2022 to Present

Fire Investigator EIT, **Origin and Cause**
Mississauga, ON

- Fire Investigations
- Vehicle Fire Investigations
- Accident Reconstruction
- Structure Fires

March to November 2021

Fire Investigator, **RocMar Forensics**
Toronto, ON

- Determined the origin and cause of losses and identified any potential third-party responsibility for subrogation potential
- Documented and photographed fire scenes and associated evidence.
- Removed debris, reconstructed fire scenes, identified and properly collected evidence for testing and/or storage
- Prepared technical reports specific to the investigation

September 2019 to July 2020

Tutorial TA – Heat and Mass Transfer, **University of Toronto**
Toronto, ON

- Lead tutorials
- Graded quizzes and exams
- Midterm invigilation

May to August 2017

Accident Reconstruction Analyst, **Walters Forensic Engineering Inc**
Toronto, ON

- Identify and analyze contributing factors in motor vehicle accidents
- Use Crash Data Retrieval software to download and analyze vehicles' black boxes
- Modeled accident scenarios in PC Crash
- Drafted analytical reports for court proceedings

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September to December 2017

Mechanical Engineering, Hardware Media Handling, **NCR**
Waterloo, ON

- Design, analysis, and development of Automated Teller machines
- Modeled prototypes in SolidWorks to 3-D print and test
- Redesigning modules based on field performance, relative to requirements
- Hands on fabrication and testing
- Torque testing units from field to troubleshoot bad actors

May to August 2015, January to April 2016

Signal Engineering Assistant, **Toronto Transit Commission**

- Analyzed machines to determine root cause of failure
- Updated electrical drawings in MicroStation for existing systems
- Assisting with the design for future switch monitoring layouts