Raina Chamberlain

B.Eng. Mgt, CFEI

Fire and Explosion Investigator - Electrical Engineering

OFFICE
Burlington

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Raina is a Fire and Explosion Investigator with a background in Electrical Engineering specializing in failure analysis, and origin and cause investigation of fires. She holds a bachelor's degree in Electrical Engineering and Management from McMaster University. Raina has attended and participated in over 200 fire scene investigations and electrical failure examinations.

EDUCATION

McMaster University
Electrical Engineering & Management
Hamilton, Ontario, Canada
2024

Conestoga College
Fire Inspector 1 Course
Kitchener, Ontario, Canada
2021

CERTIFICATIONS

- Certified Fire and Explosion Investigator (CFEI)

PROFESSIONAL EXPERIENCE

Fire Investigator – Electrical Engineering
OCI Group (Formerly Origin and Cause Incorporated)
Burlington, Ontario
February 2022 – Present

Electrical Engineering Co-op Student
OCI Group
Ancaster, Ontario
February 2022 – Present

- Assisted with 80 fires, 10 electrical inspections, and 150 potential electrical failure examinations
- Prepared preliminary, summary, technical evaluation, and investigative reports
- Attended arson committee meetings with the Hamilton & Niagara regions
- Attended biweekly electrical team meetings to discuss working cases
- X-rayed and analysed images for points of failure
- Corresponded with fire departments and manufacturers for information

Electrical Engineering Co-op – Buildings
Stantec Consulting Inc.
Waterloo, ON
May 2021 – Aug 2021

- Created lighting designs for residential and recreational areas while taking light disturbance, safety, and conflicts into account
- Drafted schedules and single line drawings using AutoCAD and Revit
- Analyzed lighting designs for lighting levels and placement using Visual
- Prepared award letters, request for quotation forms and safety forms
- Worked on 10+ projects and attended 90+ weekly meetings to discuss deliverables and time allocation