



Amanda Lykos

B.Eng.

Fire Investigator – Mechanical Engineering

OFFICE

Burlington

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Amanda is a Fire Investigator specializing in mechanical engineering, failure analysis and origin and cause investigation of fires. She holds a bachelor's degree in Mechanical Engineering from McMaster University, along with a Co-Op designation. Amanda has attended and participated in over 100 fire scene investigations and mechanical failure examinations.

EDUCATION

McMaster University

B. Eng., Mechanical Engineering and Co-Op

Hamilton, Ontario, Canada

2020 – 2024

PROFESSIONAL EXPERIENCE

Fire Investigator – Mechanical Engineering

OCI Group (Formerly Origin and Cause Incorporated)

Burlington, ON

October 2024 – Present

- Conduct fire scene investigations primarily for the insurance industry
- Experienced in working individually or in a team setting
- Responsible for the continuity of the fire scene during investigations
- Technical report writing
- Attended and participated in over 100 fire scene investigations

Fire Investigator – Mechanical Engineering Co-Op

OCI Group (Formerly Origin and Cause Incorporated)

Mississauga, ON

May 2023 – August 2023, May 2021 – August 2021

- Assisted in the investigation of fires, mechanical failures, equipment malfunctions and product defects
- Conducted fieldwork at investigation sites as well as lab work in offices
- Operated various equipment including investigative x-ray equipment as well as failure analysis and 3D microscopy
- Travelled across Ontario to investigation sites and provided input regarding the incident based on NFPA 921
- Completed 33 hours of tested training programs through the International Association of Arson Investigators, Inc. (IAAI)

Fire Investigator – Mechanical Engineering Co-Op

VPC Group Inc.

Mississauga, ON

May 2022 – September 2022

- Worked directly with plant management and implemented yield workflow, maintenance optimization and continuous improvement projects
- Researched, analyzed and reported findings on operational inefficiency as engineering project manager

- Collaborated with senior plant management, department leads, joint health and safety committee and union chair members
- Proposed and executed manufacturing improvement initiatives
- Formulated and executed implementation plans, including training and development of line workers
- Utilized AutoCAD LT for projects such as plant layout and polyol tote outsourcing housing for oil field, forestry, and mining companies around the world, in which time I spent two months in Russia setting up housing for a gold mine
- Extensive hands-on electrical, plumbing, and carpentry experience
- Performed job costing and budget control duties for each project
- Operation and inventory control of service truck