

Said Ismail

P.Eng., CFEI



1336 Sandhill Drive
Ancaster, Ontario
L9G 4V5

EDUCATION

Bachelor of Engineering Science, Electrical Engineering
Bachelor of Arts, Economics (2001)
University of Western Ontario, London, ON

CERTIFICATION

Certified Fire and Explosion Investigator (CFEI)

PROFESSIONAL REGISTRATION/LICENSING

Registered Professional Engineer in Ontario (PEO)

PROFESSIONAL AFFILIATIONS

Member – NAFI National Association of Fire Investigators
Member – IAAI International Association of Arson Investigators
Member – IAEI International Association of Electrical Inspectors
President – Halton Standard Condominium Corporation No. 694 Board of Directors (2018-2020)
Treasurer – Wellington Standard Condominium Corporation No. 192 Board of Directors (2011-2015)

FURTHER TRAINING AND EDUCATION

- IAAI International Training Conference and Expo, Cherokee, North Carolina (2023)
- NAFI Fire Investigation Training Program, New Orleans, Louisiana (2022)
- Regulatory Compliance Officer Managers' Programs – Regulatory Compliance Ontario (2019)
- Leadership Development Series Program certificate (10 courses) – Sheridan College, ON (2017-2018)
- Regulatory Compliance Officer Foundations – Regulatory Compliance Ontario (2016)
- NFPA 921 Training for CFEI certification – IAAI, Barrie, ON (2010)
- LOC/In Incident Investigation Certified – Systems Approach, Port Perry, ON (2010)
- Office Joint Health and Safety Committee certified (Active member) – IAPA, Cambridge, ON (2010)
- Fundamentals in Project Management, SolidWorks Essentials, PLC (Modicon, AB), AutoCAD 2002 – Fanshawe College, Conestoga College, ON (2002-2011)

PROFESSIONAL EXPERIENCE

Said is a licensed professional engineer and certified fire and explosion investigator with over 15 years of experience. He specializes in electrical and electronic failures, product liability and fire investigation, with particular expertise in codes and standards compliance. Said has overseen hundreds of investigations identifying the failure of equipment, installations and processes which contributed to electrical incidents, and has completed over 200 electrical forensics and fire investigations, and performed over 60 investigations to determine the root causes of electrical incidents which resulted in critical injuries, fatalities and/or large losses.

September 2021 to Present

Electrical Forensic Engineer and Fire & Explosion Investigator, **Origin and Cause**
Ancaster, ON

- Investigate structural and electrical equipment fires
- Investigate electrical and electronic appliance and equipment malfunctions

Said Ismail

P.Eng., CFEI

1336 Sandhill Drive
Ancaster, Ontario
L9G 4V5

Electrical Safety Authority

Mississauga, ON

An Administrative Authority under the Ministry of Government & Consumer Services, ESA is responsible for ensuring electrical safety of Ontarians through regulation of the Ontario Electrical Safety Code (OESC), licensing of electrical contractors, electrical product safety, and utilities by activities such as inspections and investigations.

July 2020 to September 2021

Senior Planner/Safety

- Providing safety electrical strategies using risk management principles, processes, and techniques, assessing public electrical hazards, while providing advice and guidance in determining types of public electrical safety programs and initiatives to be put in place to achieve greatest impact on electrical safety
- Collaborating with our Analytics team, other government agencies and industry partners to establish and improve ESA's ability to track, measure and report on safety information and incidents
- Establishing and coordinating processes within ESA by reviewing and assessing current work procedures, consulting with line management and auditing delivery of various safety services to help ESA fulfill its mandate
- Leading investigations and determining root causes of electrical incidents which result in critical injuries, fatalities and/or large loss fires using sound practices and attending incident scenes, conducting interviews obtaining statements from victims, witnesses, or other related stakeholders as necessary
- Completing comprehensive incident investigation reports utilizing data, witness statements, pictures, charts and reviewing Regulations such as the Occupational Health & Safety Act (OHSA) and standards such as CSA Z460, CSA Z462, and CSA Z463 for best practices and to determine root cause of electrical incidents through sound investigation techniques and collaboration
- Coordinating inter-agency collaboration with other Authorities Having Jurisdictions (AHJs) such as Office of the Fire Marshal and Emergency Management (OFMEM), Ministry of Labour, local and provincial police, fire departments and Office of the Coroner
- Reviewed and approved hundreds of incident reports identifying areas of concern, electrical failures and processes which contributed to incidents

January 2010 to May 2015

October 2015 to January 2017

May 2018 to June 2020

Incident Investigation Specialist

- Orchestrated and completed 54 investigations and determined root causes for high profile electrical incidents which involved critical injuries, fatalities and/or large loss fires utilizing data, witness statements, pictures, charts among other tools obtained to reach a conclusion identifying root cause of the electrical incidents
- Attended sites obtaining witness statements and collecting evidence to determine root cause of incidents
- Collaborated with Electrical Inspectors, Technical Advisors, and other internal and external stakeholders from different levels to obtain contact information and complete data and evidence collection related to the incidents
- Formed and led cross-functional team to produce recommendations upon review of investigation practices identifying gaps, maintaining integrity and consistency in ESA processes

Said Ismail

P.Eng., CFEI

1336 Sandhill Drive
Ancaster, Ontario
L9G 4V5

January 2017 to May 2018

Code Engineer – Rotation/Permanent

- Provided OESC interpretations to ESA inspectors, contractors, and members of the public for electrical wiring installations through Question-and-Answer forums, Bulletins, and flash notices
- Developed and delivered OESC training to electrical inspectors and external stakeholders
- Led project to design a Question-and-Answer database and continued to maintain it, for internal discussions with the technical group regarding technical questions coming from the field
- Provided technical consultation by peer reviewing technical articles, and external support to the MLTSD, OFMEM and other stakeholders such as engineering forensic companies and electrical contractors

May 2015 to October 2015

Safety and Technical Programs Advisor - Rotation

- Developed and implemented specific programs and processes related to worker safety initiatives
- Completed a comprehensive analysis for ten trade colleges to deliver electrical safety training to apprentices
- Completed 'Preventing Electrical Incidents' presentation for delivery to colleges in preparation for rollout
- Coordinated Ministry of Labour (MoL) icebreaker pilot as part of an initiative to improve relations with MoL
- Attended technical meetings with the technical team discussing Code and electrical incident investigations

2008 to 2009

Project Engineer, **HITE Engineering Corporation**
Mississauga, ON

Engineering Consulting Firm for Industrial and Construction sectors, providing Pre-start Health and Safety Reviews (PSHR's) through onsite visits and inspection of machines/structures.

- Handled projects ranging from \$200 to \$50,000 with customers such as Sobey's, Home Depot, and Norampac
- Completed PSHR's for a variety of machines and industrial applications
- Ensured machines met the OHSA, Canadian standards (such as CSA Z432-04 – Safeguarding of Machinery) as well as the Canadian Electrical Code, relevant international codes, and ANSI standards
- Modified control-reliable safety circuits using safety-rated devices to meet applicable standards
- Completed turnkey solutions for machines by collaborating with suppliers to produce the safest operating environment while meeting customer demands for a quality, cost-effective and efficient product run
- Presented signed and sealed reports, which identified non-compliances and corrective actions to meet the safeguarding codes and standards. Provided letters of compliance upon completion of recommendations

2005 to 2008

Product Designer, Test and Certification Engineer, **GSW Water Heating/AO Smith WPC Canada**

Said Ismail

P.Eng., CFEI

1336 Sandhill Drive
Ancaster, Ontario
L9G 4V5

Mississauga, ON

International water heater manufacturer whose Engineering group produced innovative solutions in the water heating industry, through extensive laboratory testing, field trials in conjunction with CSA, UL, NRCAN and DOE (US).

- Developed, designed, tested, implemented (through Engineering Change Notices) and certified control and power circuits for a \$300,000 project involving a new line of commercial electric water heaters
- Spearheaded a \$100,000 project for Lowe's, to produce an advanced electronic control which would provide a safer, tested, more efficient product to control residential electric water heaters
- Completed ISO 17025 compliance in conjunction with CSA, for the laboratory at the Fergus branch
- Conducted heat loss testing to certify new and update existing products meeting required standards for residential and commercial heaters including CSA, UL, NSF, ASME and ROHS (Europe), SCAQMD
- Supervised lab technicians conducting experiments, CAD operators drawing engineering diagrams, and co-op students completing special assignments
- Provided support for design and upgrade of existing electronic controls for gas and oil water heaters. This included updating drawings, bill of materials, instruction manuals and product certifications
- Served as the primary point of contact for certification agencies such as CSA, UL, NSF, TSSA to coordinate audit visits and requirements to maintain high standards in production of the heaters

Nedpar Electric

London, ON

A solutions provider, known for designing and building control systems for steel and automotive industries, servicing customers such as Ralston Metals and Ideal Roofing. Projects included sizing transformers and fuses; on AutoCAD, and implemented by building panels, programming PLCs, and installing them on site.

2003 to June 2004

Electrical Technical Support

- Designed, planned, and implemented electrical panels and operating stations
- Implemented AutoCAD schematics, programmed PLCs, and enabled HMI
- Installed electrical equipment on site with internal and external technicians

Summer 2000

Electrical Technical Support

- Assembled panels and operating stations for steel and automotive industries

PRESENTATIONS

- Lectured on Electrical Fire Investigations, Electrical Failures, Electrical Forensics for IAEI Canadian Section Meeting (2023)
- Lectured on Lithium-ion batteries for several Fire Departments and for Ontario Municipal Fire Prevention Officers Association Symposium (2023)
- Lectured on Electrical Fires at NFPA 921 Fire and Explosion Course (2023)
- Leadership Development Series Program certificate (10 courses) – Sheridan College, ON (2017-2018)
- Lectured to the Insurance industry on many occasions on electrical fires