Owen Langford

Fire and Explosion Investigator
Electrical Technician, 309A Journeyman

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Education

Georgian College, Barrie, ON **2018**

Electrical Engineering Technician

Key Technical Skills

Thorough understanding of electrical fundamentals as well as power and distribution systems.

Proficient in Canadian Electrical Codes and standards as well as applying them within the trade.

Experience

ROAR ENGINEERING **2023 – PRESENT**
Fire and Explosion Investigator
Electrical Technician, 309A Journeyman

Conduct investigations by gathering electrical data to determine whether structure's electrical system was faulty or working properly during fire ignition and whether the electrical components were responsible for the origin of the fire/explosion.

Examine fire scenes to identify fire origins and behaviour and determine the fire spread patterns.

Develop fire test causation test programs and use microscopic imagining tools to find trace evidence on materials recovered from fires.

Report writing including proposals, data analysis, data interpretation.

Examine evidence from fires and electrical failures due to manufacturing defects to support subrogation investigations.

Maintain update knowledge of fire cases, CSA standards, building codes, fire codes and recall notices, by staying current with industry standards Electrical/Fire.

T. Smith Engineering **May – Nov 2023**
Fire Investigator

Conducted thorough fire scene investigations to determine the origin and cause of fires.
Utilized advanced tools and equipment, such as forensic analysis software and evidence collection kits.

Interviewed witnesses, first responders, and other stakeholders to gather critical information.
Analyzed fire patterns, burn marks, and evidence to compile comprehensive investigative reports.

Collaborated with law enforcement agencies and insurance companies to support legal and insurance claims.

Investigated high voltage equipment for failures and repair strategy.

Ensured proper handling and storage of collected evidence, maintaining a clear chain of custody to support legal proceedings.

Utilized drones equipped with high-resolution cameras and specialized sensors to capture aerial images and data for forensic investigations.

Developed business sustainability initiatives as a member of the corporate's sustainability team

Innovative Automation **2018 - 2023**
Licensed Electrician, Construction & Maintenance (309A)

Organized, planned, and build large-scale automation equipment.

Lead Electrician on installations at customer site across North America.

Collaborated and communicated daily with customers to meet project and customer specifications.

Managed a team of electricians, apprentices, and co-op students through to completion of projects.

Fluent at interpreting and troubleshooting complex electric systems.

Installed and wired electrical hardware, including switchgears, transformers, motors, junction boxes, and service panels.

Innovative Automation **2022 - 2023**
Controls/Robotics Programmer

Interpreted electrical schematics and develop controls programming systems.

Programmed, debugged, and maintained PLC systems to control machinery and improve overall system efficiency.

Managed Robot Programming (Nachi, Fanuc, UR).

Troubleshoot complex controls systems.

New Electric **2017 - 2018**
Electrical Apprentice

Completed both commercial and industrial electrical projects involving; cableways, conduits, and other electrical raceways

Coordinated with other trades and general contractors to facilitate layout of recessed fixtures and architectural lighting.

Launched troubleshooting tests on equipment post-installation to confirm compatibility and safety of electrical systems.

Certifications

Diploma - Electrical Engineering Technician