

# Martin Coles

P.Eng., CFEI



# 100, 17819-106 Avenue  
Edmonton, Alberta  
T5S 2H1

## EDUCATION

Bachelor of Science with a specialization in Electronics, University of Alberta (2001)  
Certificate in Project Management, University of British Columbia (2015)

## CERTIFICATIONS

Certified Fire and Explosion Investigator (CFEI)

## PROFESSIONAL AFFILIATIONS

Association of Professional Engineers and Geoscientists of Alberta (APEGA)  
Engineers and Geoscientists of British Columbia (EGBC)  
Professional Engineers Ontario (PEO)  
Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS)

## PROFESSIONAL EXPERIENCE

Martin is a licensed professional engineer specializing in electrical engineering and fire investigation. With more than 15 years of experience, he has performed over 450 fire investigations as well as electrical failure analyses, site reviews and code consultations. Martin is qualified as an expert witness in the Supreme Court of British Columbia.

### May 2019 to Present

Forensic Electrical Engineer/Fire and Explosion Investigator, **Origin and Cause Inc.**  
Edmonton, Alberta

- Fire investigations, including scene examination, documentation, evidence collection, and coordination with interested parties
- Forensic engineering, including evidence examination, research, failure analysis, and engineering reporting

### October 2013 to May 2019

Project Engineer, **Jensen Hughes (formerly Sereca)**

Richmond, British Columbia & Edmonton, Alberta

- Fire investigations, including scene examination, documentation, evidence collection, and coordination with interested parties
- Forensic engineering, including evidence examination, research, failure analysis, and engineering reporting
- Fire alarm design engineering, including site reviews, development of code compliant designs and specifications, and administration of contracts between owners and contractors
- Code consulting, including field reviews, compliance studies, alternative solution preparation, and coordination with authorities
- Continuing professional development, including giving presentations and participating in industry events
- Business development as part of a seller/owner model

### July 2005 to February 2013

Designer, Estimating Engineer and Proposal Writer, **Pentair Thermal Management (formerly Tracer Industries)**

Edmonton, Alberta

- Detailed design of electric heat trace systems
- Evaluation of Requests for Proposals and bid packages, including technical requirements and commercial structures
- Preliminary design for preparation of Engineering, Procurement, and Construction estimates for electric heat trace and insulation systems
- Preparation of estimates to the appropriate level of precision for the needs of the client and the company with values ranging from \$3000 to \$20,000,000
- Proposal writing to accompany cost estimate with input from the sales team

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- Post-project analysis to identify sources of budget variance (estimates vs. actual costs)
- Delegation of tasks up or down as appropriate
- Training and mentorship of new staff
- Led the estimates and proposals group for 6 months

**November 2001 to May 2004**

Electronics Technician, **742 Signal Squadron, CFB Edmonton**  
Edmonton, Alberta

- Maintained and repaired high power radio and microwave transmission equipment
- Maintained and repaired power supplies (10 kW range) for the radio equipment
- Improved and managed a supply and stock database
- Wrote maintenance reports, procedures, and training packages