

CURRICULUM VITAE

NAME Michelle R. Holden, CFEI

EDUCATION Bachelor of Applied Science (B.A.Sc.)
University of Windsor, Windsor, Ontario
Graduated in 1997 in Mechanical Engineering

PROFESSIONAL REGISTRATION

- Professional Engineers Ontario (PEO)

CERTIFICATION

- Certified Fire & Explosions Investigator, CFEI

TECHNICAL AFFILIATIONS

- Canadian Society for Mechanical Engineering (CSME)
- Society of Automotive Engineers (SAE)
- International Association of Arson Investigators (IAAI)
- Canadian Association of Fire Investigators (CAFI)
- Canadian Society of Forensic Science (CSFS)
- National Association of Fire Investigators (NAFI)

PROFESSIONAL EXPERIENCE

March 2002 to Present

Junior Engineer, **Origin and Cause Incorporated**, Mississauga, ON

Vehicle fire investigations, failure analysis and engineering investigations in the mechanical field for the insurance community, legal profession and manufacturers. Have participated in more than 80 engineering investigations to date.

May 2001 to December 2002

Test/Manufacturing Engineer at **Ford Essex Engine Plant**, Windsor, ON

Conducted noise and vibration testing on various Ford engines in the Essex Engine Plant's dynamometer. Established a generic noise and vibration baseline in order to compare deviant engines. This helped to indicate possible variations with individual engines.

August 1997 to August 1999

Equipment Engineer, **Samsung Austin Semiconductor**, Austin, TX

Organized the installation and pre-process qualification of Samsung's diffusion low pressure and atmospheric furnaces. Participated in various projects to improve the efficiency and quality of the equipment in the Diffusion Engineering Department.

WORK EXPERIENCE

January 2000 to May 2001

Business Owner, **The Velvet Room**, Windsor, ON

Researched, designed, renovated and opened a lounge in Windsor, Ontario.

ENGINEERING EXPERIENCE

- Investigation of sprinkler system malfunctions
- Evaluation of gas valve malfunctions
- Investigation of heat pump failures and refrigeration/air conditioning failures
- Investigation of more than 30 vehicle fires including transport truck fires, transit bus fires, off-road heavy equipment and forestry equipment fires, farm equipment fires
- Inspection and evaluation of engine failures
- Investigation of component failures and malfunctions
- Investigation of hoists and bridge crane failures
- Evaluation of machine design
- Investigation of personal injury incidents
- Inspection and evaluation of welded components
- Evaluation of motor vehicle accident reconstruction including point of impact evaluations, visibility analysis, field testing, and vehicle crush measurements

FURTHER TRAINING AND EXPERIENCE

- CAFI Fire & Explosion Investigation Course
- IAAI Fire & Explosion Investigation Seminar
- NAFI Vehicle Fire Investigation Course
- CAFI Vehicle Fire Investigation Seminar