



roarengineering.com



Michael R. Rochon, P.Eng.

Consulting Engineer, Co-CEO

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Education

UNIVERSITY OF TORONTO

1992

Completed Accreditation Program
Association of Professional Engineers of Ontario (PEO)

RYERSON UNIVERSITY

1998

Degree in Mechanical Engineering Technology

Experience

ROAR ENGINEERING

2015 – PRESENT

Co-CEO

Professional Engineer, Consulting Engineer

Assess the origin and cause of fires, explosions and/or failures based on the analysis of physical evidence including, the results of examinations and testing, reported information and the evaluation of all possible causes.

Assessment of damages, defects and/or cost evaluation.

Mechanical and electrical evaluation of equipment and devices.

Fire and life safety evaluations of architectural, mechanical and electrical drawings and sites to ensure that the plans or sites comply with the Ontario Building Code, the Ontario Fire Marshal's requirements and related standards

Design and layout of heating ventilation and air conditioning equipment for commercial and residential buildings.

Remediation of environmental oil contaminations, based on a site assessment and engineering evaluation.

Manage sites through continual monitoring of the site conditions and conformance to custom engineering specifications if required.

Site assessments are based on up to date knowledge of environmental Codes and Standards.

Site assessments and remediation reports have been completed for both residential properties and institutional occupancies (Peel Board of Education Schools).

Assess the cause of failure and/or contamination based on the analysis of physical evidence including, the results of examinations and testing, reported information and the evaluation of all possible causes.

Co-ordination and preparation of reports and studies for all the above descriptions.

ROCHON ENGINEERING INC.
Co-CEO
Professional Engineer, Consulting Engineer

1996 – 2012

Assess the origin and cause of fires, explosions and/or failures based on the analysis of physical evidence including, the results of examinations and testing, reported information and the evaluation of all possible causes.

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Assess the cause of failure and/or contamination based on the analysis of physical evidence including, the results of examinations and testing, reported information and the evaluation of all possible causes.

Reconstruction of motor vehicle and pedestrian related accidents with respect to impact speeds, perception and reaction times, impact severity determination and evaluation, analysis of pre-impact through post-impact sequence of events, speed / distance / time calculations, computer-assisted reconstructions and simulations, vehicle safety examinations, vehicle lamp, seatbelt and tire analysis.

Analysis of road construction for compliance with Geometric Design standards; including detailed site assessments and surveys.



Analysis of accident reconstruction documentation and determination of variability, vehicle speed and motion, pre-impact and post-impact vehicle orientation, seatbelt and air bag activation, occupant kinematics, vehicle lamp orientation, mechanical fitness, driver perception and response, collision avoidance maneuvers, traffic control and environmental factors and crust (re: Delta V).

Co-ordination and preparation of reports and studies for all the above descriptions.

BATTAGLIA DEBERARDIS ROCHON AND ASSOCIATES INC.
Fire Protection and Forensic Engineer

1990 – 1996

Assess the origin and cause of fires, explosions and/or failures based on the analysis of physical evidence including, the results of examinations and testing, reported information and the evaluation of all possible causes.

Assessment of damages, defects and/or cost evaluation.

Mechanical and electrical evaluation of equipment and devices.

Fire and life safety evaluations of architectural, mechanical and electrical drawings and sites to ensure that the plans or sites comply with the Ontario Building Code, the Ontario Fire Marshal's requirements and related standards.

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Co-ordination and preparation of reports and studies for all the above descriptions.



AIRVECTOR INC.
Technical Mechanical Sales H.V.A.C.

1989 – 1990

Aided Consulting Engineers in design and layout of H.V.A.C.

Take-off and pricing of equipment for projects

Project co-ordination

REMINGTON INDUSCO INC.
Mechanical Sales and Technical Support H.V.A.C.

1988 – 1989

Take-off and pricing of equipment for projects

Aid sales staff in design layout of equipment

Specialized Professional Competence

Certified Mold Inspector, 2014

Educational Program Innovations Center (EPIC)
Contaminated Soil and Groundwater Chemistry, Assessment and Remediation, 2005

Educational Program Innovations Center (EPIC)
Small Practical Sampling Program for Phase 1 and Phase 2
Environmental Site Assessment, September 2004

Canadian Standards Association (CSA)
Electrical Insulations, 2003

Templegate Information Services
Dealing With Industrial and On-Site Contamination, November 2001

Live Burn Set-ups
Completed for Training of NFPA 921 Students, 2000

Explosion Recognition and Post Blast Investigation
(C.A.F.I.) 2000

National Association of Fire Investigation Certified Fire and Explosion Investigator
(N.F.P.A. 921), 1997

Heating, Refrigeration and Air Conditioning Institute of Canada
Small commercial air system design, 1996

Heating, Refrigeration and Air Conditioning Institute of Canada
Small commercial heat gain and heat loss calculations, 1996

Heating, Refrigeration and Air Conditioning Institute of Canada
Residential heat loss and gain calculations, 1995

Institute of Police Technology and Management with Ryerson Polytechnic University
Advanced Traffic Accident Investigation, 1993
Forensic Animation of Traffic Crashes, 1993



Association of Professional Engineers of Ontario (PEO)

Linear Algebra and Vector Analysis, 1992

University of Toronto

Systems Analysis and Controls, 1992

Applied Thermodynamics and Heat Transfer, 1991

Canadian Association of Fire Investigators

Arson Course on Fire Investigation sponsored by the Canadian Association of Fire Investigators, 1991

Fire Investigation Seminars, 1991 – 1992

Society of Fire Protection Engineers

Computer Fire Modelling, 2000

University of Toronto

Design and Manufacture of Machine Elements, 1991

Fluid Mechanisms and Applications, 1990-1991

Environmental Control in Buildings, 1989

Engineering Economics, 1989

Electrical and Electronics and Applications, 1988

Conducted over 60 seminars.

Thesis: Thesis of a motor vehicle accident reconstruction including development of formulas from first principal; impact analysis; seatbelt analysis; occupant dynamics; physical mechanical inspection and analysis of vehicles (tires, brake systems, steering system, crush damages, etc.); speed assessment; development of distances; time assessment, including driving perception and reaction; and, road design and construction evaluation.

Professional Memberships

Advisory Subcommittee for Designating Consulting Engineers (PEO)

Professional Engineers Ontario (PEO)

Licensed Professional Engineer in 1994

Licensed Consulting Engineer in 1997

Qualified Person with the Ministry of the Environment

Ontario Association of Certified Engineering Technicians and Technologists (OACETT), 1993

Society of Fire Protection Engineers (SFPE)

Canadian Association of Fire Investigators (CAFI)

American Society of Heating, Refrigeration and Air Conditioning Engineers Inc.

Court Experience

Qualified as an expert witness in Ontario.

