

Collision
Reconstruction

Personal Injury

Electrical

Mechanical

Metallurgical

Civil & Structural

Fire & Explosion

Structural
Reconstruction

352 Consumers Rd.
Toronto, ON
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Ram Haddad, B.Eng., P.Eng., C.F.E.I., C.V.F.I.

416-491-2525 (Ext. 1036)
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EXECUTIVE SUMMARY

Ram has 20 years experience as a chemical engineer & forensic investigator with a specialization in fires and explosions in residential, commercial & industrial settings. His expertise covers the spectrum of activities associated with forensic fire investigations from scene inspection & evidence documentation through destructive & non-destructive testing to modeling of flame spread and the analysis of those results. In addition to having completed hundreds of investigations on behalf of insurance, legal and manufacturing clients, Ram is active with the Canadian Association of Fire Investigators as a Board Member of C.A.F.I. Chapter 006. He is also one of the few investigators in Canada with the IAAI-CFI®(V) designation from the International Association of Arson Investigators (IAAI), USA.

AREAS OF SPECIALIZED EXPERTISE

- *Fire cause and origin investigation*
- *Fire scene inspection & evidence documentation*
- *Explosion cause and origin investigation*
- *Computer modeling of fires*
- *Flame spread testing and analysis*
- *Sprinkler system failure investigation*
- *Motor vehicle fire investigation*
- *Gas, oil & wood furnace evaluation*

EDUCATION

- B.Sc. (Honours), (2007) State University of New York
- B.Eng., (Chemical), (1996) Jordan University of Science & Technology

QUALIFICATIONS & CERTIFICATIONS

- *Professional Engineer (P.Eng.)*
- *Certified Fire & Explosion Investigator (C.F.E.I.)*
- *Certified Vehicle Fire Investigator (C.V.F.I.)*
- *IAAI Motor Vehicle Fire Credential Endorsement Certification*
- *Certified Fire investigator (IAAI-CFI®(V)) International Association of Arson Investigators (IAAI)*
- *Fire Investigation Technician Designation (IAAI-FIT(V))*
- *WETT Site Basic Inspector*

PROFESSIONAL ASSOCIATIONS

- *Professional Engineers of Ontario*
- *Ontario Society of Professional Engineers*
- *Association of Professional Engineers and Geoscientists of the Prov. of B.C.*
- *Association of Professional Engineers and Geoscientists of Nfld. & Labrador*

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PROFESSIONAL ASSOCIATIONS (Cont'd)

- Canadian Association of Fire Investigators
- National Association of Fire Investigators
- International Association of Arson Investigators

PROFESSIONAL DEVELOPMENT

- Wood Energy Technical Training Program, Site Basic Inspector Certification Course, Wood Energy Technology Transfer Inc. (Canada)
- National Fire Investigation Main Training, National Association of Fire Investigators (NAFI) (USA)
- Vehicle Fire, Arson & Explosion Investigation Science & Technology Training, NAFI & Scott County Fire Department (USA)
- Advanced Fire Dynamics, Arc Mapping & Burn Cell Investigation, Continuing Education Certificate. GTAA FESTI, (Canada)
- Post Blast Investigation (1), United States Government (USA)
- Post Blast Investigation (2), United States Government (USA)
- Advanced Forensic Techniques, United States Government (USA)
- Introduction to PBI / Forensic Techniques, United States Government (USA)
- Advanced Electronics Investigation, United States Government (USA)
- Forensic Photography, Royal Police Academy (Jordan)
- Crime Scene Investigation, Royal Police Academy (Jordan)

PROFESSIONAL EXPERIENCE

Forensic Engineer, Arcon Forensic Engineers
(2018 – Present)

In addition to previously stated forensic engineering responsibilities:

- Conduct vehicle fire investigations and cause analysis

Forensic Project Engineer, Envista Forensics
(2017 – 2018)

Forensic Engineer, R.J Shirer & Associates
(2015 – 2017)

- Perform fire and explosions investigations at commercial, industrial & residential locations
- Perform failure analysis and forensic assessment for different equipment failures including testing of systems where necessary
- Assist in developing and preparing engineering drawings and simulations
- Review plans and specifications to determine whether they meet relevant guidelines, codes, and other regulations. - Coordinate with Fire and Police Departments to request information related to investigations
- Provide expert opinion testimony for trials

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PROFESSIONAL EXPERIENCE (Cont'd)

Forensic Engineer, Forensic Science Laboratories
(1997 – 2015)

- Conducted Post Blast Investigations (PBI) to determine the origin and cause of explosions and related fires. Documented fire and explosion effects and patterns, interviewed witnesses, performed IED component recognition, evidence collection and fire & crime scene reconstruction
- Undertook chemical and industrial process investigation, fire spread, and corrosion analysis
- Performed chemical analyses using Thin Layer Chromatography, Gas Chromatography, MS Spectrometry, and IR Technologies.
- Carried out laboratory examinations, chemical analyses for pesticides, toxic materials, blood, and body fluids
- Compared and interpreted crime scene physical evidence

Chemical Engineer, Eagle Distillery Company
(1996 – 1997)

Responsible for conducting quality control inspections & testing of raw and finished materials used in the manufacturing of alcoholic beverages.

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