

Curriculum Vitae

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Personal Information:

Married with two children, Canadian citizen, residing in Greater Toronto Metropolitan area, available for international travel

Employment History

- 2011-Now **B&M Risk Advice Inc.**
Risk Engineering Consultancy, Authorized Inspection Agency, Designated Design Review Agency
- Principal Engineer & Chief Inspector
www.bandmriskadvice.com
- 1998-2011 **RSA Canada**
A major Canadian Property & Casualty Insurance Company
- Engineering Manager
Technical Resource Group (TRG) & Equipment Breakdown Risk Control Services (EBRCS)
- . Provided engineering and risk control solutions to various clients of RSA in Power Generation and Distribution, Mining, Integrated Steel Mills, Chemical and Petrochemical, Manufacturing and Energy.
 - . Developed and successfully sold engineering and inspection services portfolios for the Fee For service Operation (TRG); services included court appearance as expert witness (Colombia, Cartagena Power plant steam turbine fire incident), Mining surveys in Latin America, Alaska and Siberia as well as consultancy and inspection services.
 - . Trained, developed and mentored RSA professional engineers and consultants.
 - . Revitalized the Risk Scoring system to facilitate UW and engineering communication.
 - . Pioneered probabilistic risk assessment methodology to identify portfolios with high profit or loss potentials.
 - . Initiated and successfully supported Transport Canada and Ministry of Natural Resources in the design review, code compliance and registration of highway transport tanks and chassis engaged in transfer of explosives and hazardous material on Canadian roads.

- 1996-1998 **Aon Canada**
Insurance Brokerage Corporation
- Senior Risk Control Engineer, Equipment and Machinery
- . Performed site surveys and promulgated loss prevention and risk improvement solutions for clients in the energy, pulp and paper, power generation and transmission and chemical industries.
 - . Actively engaged in “failure causation” investigation to facilitate the Claims settlement and introduce control measures to avoid recurrence for major clients in the chemical, cogeneration and pulp and paper industries.
- 1989-1996 **Royal Insurance Canada**
A major Canadian Property & Casualty Insurance Company
- Engineering Specialist, Assistant Manager, Manager
Boiler and Machinery Department
- . Acted as the main in-house engineering resource in a multi-million dollar subrogation case against a global gas turbine manufacturer;
 - . Developed engineering and inspection protocols for energy and cogeneration risks.
 - . Produced generic scenarios for failure potential and consequence assessment for the mechanical and electrical equipment typically insured in a boiler & machinery coverage.
 - . Provided two weeks ASME Codes and practical knowledge training to new inspectors in preparation for National Board Commission examination and achieved a perfect 100% pass rate for all attendees.
- 1984-1988 **Pars Oil Company, Tehran, Iran**
Lube Oil and Grease Manufacturing
- Maintenance and Utilities Manager
- . Providing equipment and machinery solution to support the De-waxing, Furfural and Hydro-treating units, grease, brake fluid and anti-freeze production, drum, gallon and quart production plants.
- 1981-1984 **Iranian Offshore Oil Company, Persian Gulf**
Offshore Oil Production, Lavan Island Operations
- Maintenance Manager, Sasan (Salman) platform
- . Gas Lift, Water Injection, power generation, process equipment, pumping and life support systems, production of 220,000 Bbls/ day crude oil plus first stage treatment (separation and desalting) followed by pumping to the Island through 180 KM of underwater pipeline.

1979-1981 **National Iranian Gas Company**
Iran –Soviet Union Gas Transmission Pipeline, Area II

Mechanical Engineer
. Turbo-compressor condition monitoring and outage support
. Pipeline Integrity assessment

1977-1979 **National Iranian Oil Company**
Abadan Refinery, Abadan, Iran

Mechanical Engineer, Maintenance Department, Turnaround Operation
. Engaged in turnaround maintenance and repair of the refinery utilities and process plants (total number of units and utility boilers exceeding 110 plants). Abadan refinery had a throughput of 680,000 Bbls per day and was the world’s second largest refinery.

Education:

1973-1977 Bachelor of Science, General Engineering approach Mechanical
Abadan Institute of Technology (AIT), Abadan, Iran

1991 National Board of Boiler and Pressure Vessel Inspectors, Commission Certification
1994 National Board of boiler and pressure Vessel Inspectors, A & B Endorsement

1997-1998 Canadian Risk Management Certificate
University of Toronto, Continuing Education

Continuing Education:

1992 Super-alloys sponsored by the American Society of Metals (ASM)
1993 Cogeneration, sponsored by IGTI
1996 “Blade”: Steam turbine rotor integrity/ remaining life assessment sponsored by EPRI and
Impact Technologies
1997 “FRANC”, Fracture Mechanic software, Structural Integrity Associates
1998 European Harmonized Standards, Machinery Directive
1999 Safety Instrumented Systems
2000 High Temperature Damage Mechanisms sponsored by ASM
2002 CE Electrical and Instrumentation Directive
2003 Risk Based Inspection, joint ASME & API sponsored course
2004 Phased Array Inspections, P. Ciarou, IMS
2005 Financial Based Maintenance, jointly sponsored by EPRI & ASME
2006 Life of a Transformer, Doble Engineering
2007 Leadership development, module 1
2008 Leadership development, module 2
2009 Engineering Management, ASME Program

Publications/ Presentations:

1998 Jurisdictional Inspections vs. Risk Based Inspection considerations, NACE, Ontario SW Chapter
2003 Safety Instrumented Systems, CB&MUA Engineering Conference
2007 Financial Based Maintenance, CB&MUA Engineering Conference

Professional Association:

1991-present Professional Engineers Ontario (PEO)
1990-present National Board of Boiler and pressure Vessel Inspectors (NBB&PVI)
1990-present American Society of Mechanical Engineers (ASME)
1998-present International Electrical and Electronic Engineers (IEEE)
1998-present Canadian Risk Management Society
2008-Present Society of Mining and Exploration (SME)