



Craig Brown PEng

Senior Engineer

contact

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📍 Vancouver

expertise

Collision Reconstruction

areas of specialization

Collision reconstruction

Vehicle and machinery fire

Product failure

Slips, trips and falls

Code compliance of stairs, ramps and handrail

Craig Brown is a senior engineer at MEA Forensic with over 30-years of experience. From the firm's Vancouver office, Craig investigates automobile collisions and works on product and occupier liability cases. He is registered as a professional engineer in BC and Alberta and has given expert evidence in court many times.

Craig reconstructs crashes involving a wide variety of vehicles, from heavy-trucks to bicycles. A motorcyclist for much of his life, Craig's experience helps him identify the unique issues associated with reconstructing motorcycle accidents. "Speed is often the focus of our investigation," he says. "but other factors can play a role, including road conditions, and visibility."

Before joining MEA in 1987, Craig designed industrial equipment. Because of this experience, he investigates machinery failures.

Accidents involving stairways, ramps and guardrails are the focus of Craig's occupier liability work. "I look at whether there was a design, construction or maintenance deficiency and whether it affected the accident," he says. Craig is continually in the throes of renovating his heritage home, providing hands-on experience with construction practices. He also understands BC's building code and how it has changed over the years. "It's not today's building code that really matters," he says, "it's the code from when the building was built."

Craig provides clients with straight answers and a robust analysis of the physical evidence. "I get satisfaction out of finding the key piece of information that helps a client resolve their claim," he says.

education

Bachelor of Applied Science, Mechanical Engineering, University of British Columbia, 1974.

professional status

Professional Engineer, Association of Professional Engineers, Geologists and Geophysicists of Alberta, since 1981.

Professional Engineer, Association of Professional Engineers and Geoscientists of British Columbia, since 1977.

professional associations

American Society for Materials (ASM), since 1978.

Society of Automotive Engineers (SAE), since 1977.

American Society of Mechanical Engineers (ASME), since 1974.

professional experience

MEA Forensic Engineers & Scientists

Senior Engineer, 1987 to present

Responsible for analysis of motor vehicle accidents, including examination of vehicles and accident scenes. Cases have included automobiles, trucks, motorcycles, bicycles, and pedestrians. Issues addressed have included determination of vehicle speeds, pre-incident vehicle paths, sequence of events, evasion potential, driver identification, and seatbelt use and effectiveness. Investigate slip and fall cases, with an emphasis on stairway hazards. Assess compliance with applicable building codes and bylaws. Identify safety hazards. Also investigate machinery failures and vehicle and equipment fires. Qualified and has given expert evidence as a Mechanical Engineer in the Supreme Court of British Columbia, the Court of Queen's Bench of Alberta, the Provincial Court of British Columbia, and the Provincial Court of Manitoba.

Wesdrill Equipment, Delta, BC

Manager of Product Development, 1984 to 1987

Developed metallurgical manufacturing technology for diamond tools used in mining and oilfield coring and drilling applications. Estimated and budgeted custom built drilling machinery, including supervision of design work, fabrication, machining, and assembly.

Anderson & Associates, Edmonton, AB

Mechanical Consulting Engineer, 1983 to 1984

Conducted industrial project work for manufacturers of technically innovative products in the oil production and industrial fields. Provided technical investigation and reported to the legal and insurance industry with respect to industrial, commercial, motor vehicle, and fire losses.

Falcon Engineering, Ltd., Edmonton, AB

Project Engineer, 1981 to 1983

Provided project management and engineering design services to petroleum industry contractors, manufacturers and service companies.

Consulting Engineer, Richmond, BC

Engineer, 1979 to 1981

Provided design and project management for four truck-mounted diamond drills for sale to Micare, a Mexican coal mining company. This project included training of personnel on-site in Mexico.

Mainland Industries, Division of Bow Valley Resource Services, Ltd., Richmond, BC

Project Engineer, 1978 to 1979

Provided engineering of oilfield well-servicing rigs including design of rotating machinery, hydraulics, pneumatic controls, and brake systems and their application to mobile machinery.

Wesdrill Equipment, Division of Bow Valley Industries, Richmond, BC

Design Engineer, Engineer in Training, 1974 to 1978

Provided detailed design of drilling equipment and development of specialized manufacturing procedures for diamond set drilling tools.

lectures & presentations

2000/2001 – Accident Reconstruction for Adjusters – Training sessions at ICBC Training Centres.

June 1999 – Recent Legal Developments in Fire Investigation. Presentation to International Association of Arson Investigators. Preparation of an Engineering Expert Report and Fire Litigation, Sponsored by Lindsay Kenney. Vancouver, BC.

1999 – Introduction to Accident Reconstruction for Insurance Adjusters. Presentation to Code Hunter Wittman and the Alberta Motor Association. Edmonton, Alberta.

1994 – The Evidence Makes It Clear. Presentation to the Alberta Civil Trial Lawyers. Calgary, Alberta.

training and professional development

October 11, 2017 – Three Design Methods for Emergency Lighting, Illuminating Engineering Society of BC, Vancouver, BC.

July 2015 – Building Code Overview, Ontario Society of Professional Engineers, Mississauga, ON.

April 2008 – Guards: Making It Right. Association of Professional Engineers and Geoscientists of BC, Professional Development Courses, Vancouver, BC.

November 2007 – Crash Data Retrieval System Operator, Collision Safety Institute, Seattle, WA.

November 2007 – Crash Data Retrieval System Data Analyst Course, Collision Safety Institute, Seattle, WA.

April 1999 – Advanced Fire Investigation Workshop, Canadian Fire Training Services, Merritt, BC.

1997 – SAE Airbag Design and Performance, TOPTEC Conference. Orange County, CA.

1996 – Fire Science and Fire Investigation Workshop, University of British Columbia, Vancouver, BC.

May 1993 – Fire Seminar – Anatomy of a Fire Loss From Fire to Trial, International Association of Arson Investigators, Lindsay Kenney, Vancouver, BC.

1991 – Hazard and Operability (HAZOP) Studies Team Leader Training. Vancouver, BC.
