

credentials + experience

- first worked for Pratt & Whitney, testing and analyzing gas turbine engine components and aircraft structures for noise and vibration control.
- as a consulting engineer expanded expertise to environmental noise and vibration assessment, noise control design, finite element analysis, structural vibration and machinery dynamics.
- became one of four principals of Aercoustics Engineering Limited in 1992.
- notable projects include one of the world's first outdoor Active Noise Cancellation systems for the **TransAlta** cogeneration facility near the Ottawa Health Sciences Centre – landed an **Award of Excellence** from the Association of Consulting Engineers of Canada; noise assessment and noise control review for the Millbank ABB GT11N Combustion Turbine Generating Station for **New Brunswick Power**; noise assessment for conversion of the Rolls Royce RB211 gas turbine to the WR21 marine power plant for **Westinghouse**; sound measurement program for the Rolls Royce RB211 on behalf of **Cooper-Rolls Royce** for **TransCanada PipeLines**; specialized loudspeaker transducers for Nortel Networks – in media applications, they created the aural impression of a full soundstage for listeners; acoustics and noise control for Toronto's **Filmport Studio** complex; and a field study of wind machine noise in the Niagara wine region.
- has appeared as an **expert witness** on numerous occasions before the Ontario Energy Board (OEB) and Ontario Municipal Board (OMB) and various Environmental Assessment Review Panels, and court cases.
- designs and manufactures loudspeaker systems for **specialized acoustic applications** ranging from active noise cancellation to sound reinforcement systems – has made extensive use of the National Research Council of Canada's computerized anechoic room facilities to optimize enclosure and filter designs.
- member of the **Canadian Acoustical Association, American Society of Mechanical Engineers, Acoustical Society of America and Audio Engineering Society.**
- B.A.Sc. (Mechanical Engineering), University of Toronto, 1984.