

Resume for Steven Bilawchuk, M.Sc., P.Eng.



Mr. Bilawchuk is a private consultant specializing in environmental noise modeling and monitoring and impact assessments as well as architectural acoustics and vibration measurement and assessment. His M.Sc. work at the University of Alberta was in the field of Finite Element Modeling of Acoustical Silencers. In addition, he has extensive experience teaching a senior Mechanical Engineering course on Acoustics and Noise Control at the University of Alberta and several 1-day and 2-day acoustics courses. His involvement with **aci** has gained him experience in various fields of noise and vibration measurement, assessment, and design.

EDUCATION

- M.Sc. 2002 Mechanical Engineering, University of Alberta, Canada
-Thesis work on Finite Element Modeling of Acoustical Silencers
-Courses of Acoustics, Vibrations, Signal Processing, Modeling
- B.Sc. 2000 Mechanical Engineering, University of Alberta, Canada
-Co-Op Program, Degree with Distinction

WORK EXPERIENCE

aci Acoustical Consultants Inc. 2000 – present

Principal Partner / Treasurer

- Environmental noise assessment, modeling, monitoring, mitigation. (AER Directive 038 and AUC Rule 012).
- Architectural acoustics, HVAC acoustics, gymnasium and auditorium acoustics.
- Building and machine vibration, transportation vibration.
- Teaching courses on acoustics and noise control.
- Software design for acoustic and vibration analysis.

Sessional Instructor, University of Alberta 2005 – 2013

- Teaching MecE 553 (Acoustics and Noise Control) to 4th/5th year students

UofA Mechanical Engineering Acoustics and Noise Unit Lab 2000 – 2002

- Measurements for Sound Transmission Class (STC) of various wall, door, window structures
- Measurements for Noise Reduction Coefficient (NRC) testing of various sound absorbing materials

PROFESSIONAL AND TECHNICAL ASSOCIATIONS

- P.Eng., Association of Professional Engineers and Geoscientists of Alberta (APEGA)
- Institute for Noise Control Engineering (INCE)

PUBLICATIONS

- M.Sc. Thesis, Finite Element Modeling of Acoustical Silencers, 2002. University of Alberta
- Comparison and implementation of the various numerical methods used for calculating transmission loss in silencer systems. *Applied Acoustics*, 64 (2003), 903 – 916.
- Numerous conference publications and presentations on acoustical topics.