

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



Mr. Bilawchuk is a private consultant specializing in environmental noise 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 teaches a senior Mechanical Engineering course on Acoustics and Noise Control at the University of Alberta. His involvement with aci has gained him experience in various fields of noise and vibration measurement, assessment, and design. He is also an avid enthusiast of systems for home and mobile audio reproduction.

### 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**

- Project work in environmental noise assessment, silencer design, energy industry noise mitigation, architectural acoustics, building and machine vibration, transportation vibration, HVAC acoustics, gymnasium and auditorium acoustics.
- Accounting and invoice management.
- Software design for acoustic and vibration analysis.
- Organization committee for acoustic conferences
- Continued research in modeling of acoustical silencers

**Sessional Instructor, University of Alberta**

2005 – present

- Teaching MecE 553 (Acoustics and Noise Control) to 4<sup>th</sup>/5<sup>th</sup> 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, Geologists, and Geophysicists of Alberta (APEGGA)
- Member, **News Editor**, Canadian Acoustical Association (CAA)

### PUBLICATIONS

- M.Sc. Thesis, FEM 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.