

Eric de Santis, M.Sc. E.I.T. holds a Masters degree in Electrical Engineering specializing in Acoustics from Aalborg University, Denmark. Eric's post-graduate experience at Aalborg University involved the digital signal processing of acoustic signals, active noise control, binaural technology and noise-induced hearing damage. His 2007 Master's thesis related to the perception and thresholds of nonlinear distortion from complex signals.

Eric's primary work experience since joining BKL Consultants in March 2009 has been in the area of transportation and environmental noise. His work in this area includes field measurement, data analysis and noise modelling. Eric has also participated in noise assessments of nightclubs and pubs in Vancouver. These studies relate noise activity from primary liquor establishments to the City of Vancouver's noise bylaw requirements. He has also conducted several residential noise studies in the City of Vancouver. These projects typically include the calculation of exterior and interior noise levels and recommendations for acoustic treatment to include in the construction of proposed developments.

Eric has used MATLAB extensively for the digital signal processing of acoustic signals, auditory modelling and statistical analysis. Further, he has experience with a wide range of acoustic measurement equipment including B&K analysers, sound level meters and microphones, Symphonie (dual channel real-time acquisition unit) and the MLSSA acoustical measurement system.

Eric is a member of Acoustical Society of America.

Position: Consultant, BKL Consultants Ltd.

Education: Master of Science (Electrical Engineering majoring in Acoustics)

Years of Experience: 3

Expertise:

• **Architectural Acoustics**

- Sound isolation recommendations for SkyTrain noise on East 6th Avenue, Vancouver

• **Environmental Acoustics**

- Measurement of gas venting at chemical factory for silencer specification, North Vancouver
- Noise modelling of electrical substation noise

• **Transportation Noise**

- Port Mann / Highway 1, Vancouver / Burnaby / Coquitlam / Surrey / Langley Baseline Noise Monitoring and modelling
- Evergreen SkyTrain LRT, Burnaby / Port Moody / Coquitlam - Baseline Noise Monitoring
- Sea-to-Sky Post-Construction Noise Monitoring
- Canada Line Whole Body Vibration Measurement
- Highway 97 Winfield to Oyama Noise Modelling
- YVR Fuel Delivery Project Baseline Noise Monitoring

• **Residential Site Studies (Vancouver)**

- 3626 West 16th Avenue
- 960 Kingsway
- 1412 East 41st Avenue
- 5498 Fraser Street

• **Community Noise Assessment from Pubs and Nightclubs (Vancouver)**

- Boss Nightclub
- Ginger 62
- Penthouse Nightclub
- Fabric Nightclub
- Toby's Pub
- Funky Winker Beans

