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### Formación académica

Enero-Dic 2002 **Post-Doctorado en la Universidad de “University of New South Wales, Sydney Australia”**

Abril 2001 **Luleå University of Technology, Luleå, Suecia**

**Doctorado en análisis vibracional**

*Titulo :* “Vibration based diagnostics for analysis of combustion properties and noise emissions of IC engines.

Septiembre 1996 **Luleå University of Technology, Luleå, Suecia**

*Licenciatura en Ingeniería*

*Titulo:* “Multivariate Analysis and Wavelet transform Analysis of Diesel Engine Combustion Noise”.

Junio 1994 **Luleå University of Technology, Luleå, Suecia**

*Maestría en Ingeniería Mecánica*

### Artículos Publicados en revistas

- 1 Zurita Villarroel, G.and Haupt, D: "Reconstruction of cylinder pressure through multivariate data analysis: For prediction of noise and exhaust emissions". **Noise Control Engineering Journal. 52(4) (Jul-Ag). 2004. USA.**
2. Zurita Villarroel, G.and Ågren A: “A new approach to Diagnostics of the Combustion Process in Diesel Engines using Vibration Measurements. **Part I.** Reconstruction of the Cylinder Pressure from Vibration Measurements.” **Published at the International Journal of Acoustics and Vibration. Vol (8). Junio 2003. USA.**
3. Zurita Villarroel, G.and Haupt, D.:“ A new approach to Diagnostics of the Combustion Process in Diesel Engines using Vibration Measurements. **Part II.** Detection of the Start of Combustion Using the Reconstructed Pressure Signals.” **Published at the International Journal of Acoustics and Vibration. Vol (8). Junio 2003. USA.**
4. S. Romero, J. Navasquillo & Zurita Grover: A New Time-Frequency Representation: Analysis of the Combustion Noise. Letter to the Editor. **Published at the ACTA ACUSTICA, Vol. 87 (2001) 423-425.**
5. Zurita Villarroel, G., Pettersson E., Ågren A: Reconstruction of the cylinder pressure from vibration measurements for prediction of exhaust and noise emissions in ethanol engines. **Scientific paper at Society America Engineering Vehicle Noise Conf., Traverse City 99. Michigan. USA**
6. Zurita Villarroel, G. Ågren A.: Wavelet Transform Analysis of **Scientific paper at Society America Engineering Vehicle Noise Conf., Traverse City 99. Michigan. USA**
7. Zurita Villarroel, G., Pettersson E.and Ågren A.: Multivariate Analysis of Engine Noise and exhaust Emissions from an Ethanol Fuelled Diesel Engine. **Scientific paper at SAE Vehicle Noise Conf., Traverse City 97. Michigan. USA.**

### Publicaciones en congresos internacionales : 11 Publicaciones

**Idiomas Inglés:** Nivel alto..

**Sueco:** Nivel Alto

**Español:** Nivel alto

**Informática Programa Matlab**