YASSER ELNEMR

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PROFILE

- Professional mechanical engineer.
- Experience in mechanical design.
- Special experience in automotive NVH.
- Ability for gathering, analyzing and defining Engineering problems.
- Planning, reporting, and decision making for new projects.
- Leading teams, work in teams and individual.
- Managing workflows.
- Free for business travel around the world.
- Willingness to learn and explore.
- Austrian Citizenship.

WORK HISTORY

Feb 2008
to
Present

Research Engineer
Virtual Vehicle, Graz, Austria

- New Project planning.
- Perform acoustical measurements, analysis, and simulation on Automotive Intake and exhaust systems components such as Mufflers, Aftertreatment devices, Turbochargers, Intercoolers.
- Programming Internal acoustic simulation tool for intake and exhaust systems (INEXAS).
- participation in several conferences and scientific journals.
- Technical reports writing.
- Programming the Automatic Testing Framework of AVL software (Model connect) for testing the communication between several simulation tools and GT-Power.
- Data-analysis and machine learning techniques (AI application for intake and exhaust systems (Current hot topic))

Jun 2001
to
Aug 2006

R&D Mechanical Engineer
Aerospace Research center, Cairo, Egypt

- Complete Design of flight control systems of primary trainer aircraft.
- Design for ejection seat system and seat positioning of K8E trainer aircraft

- Producing 3D CAD models, for every single component and complete system assembly.
- Preparing the detailed 2D drawings of the complete aircraft mechanical control systems.
- Preparing the BOMs for the materials.
- Preparing the Illustrated Parts Breakdown (IPB) manual and other description manuals of the complete aircraft mechanical systems and structures.
- Technical reports Writing.

EDUCATION

Oct 2009 *to* *Aug 2011*	**Royal Institute of Technology (KTH)** *Stockholm, Sweden* • Licentiate in Mechanical Engineering (Sound and Vibration).
Aug 2006 *to* *Dec 2007*	**Royal Institute of Technology (KTH)** *Stockholm, Sweden* • Master's degree in mechanical engineering (Sound and Vibration)
Sep 1995 *to* *May 1999*	**Ain Shams University (ASU)** *Cairo, Egypt* • Bachelor's degree in Mechanical Power Engineering

SOFTWARE/SYSTEM SKILLS

- Programming and simulation (MATLAB, Python, R)
- CAD (Unigraphics nx, Solid Edge, ProE, Catia V5).
- Gas dynamics (AVL Boost, GT-Power).
- MS Office (Word, Excel, PowerPoint, MS Project).
- Java.
- PHP, HTML, CSS

LANGUAGE SKILLS

- Arabic (Mother Tung).
- English (main language through all educational levels).
- German (Deutsch), B1 level.

PUBLICATIONS

- Yasser Elnemr, Investigation of the acoustic performance of dissipative mufflers: Influence of different absorbing materials and packing densities, 2007, KTH, Stockholm, Sweden.

- Y. Elnemr, et. al., Investigation of the acoustic performance of dissipative mufflers: "Influence of different absorbing materials and packing densities", NOVEM, 2009, Oxford, UK.

- Y. Elnemr, et. al., Workshop: Investigation and simulation of the turbo-compressor's passive acoustical characteristics, 6th ISNVH, 2010, Graz, Austria.

- Y. Elnemr, et. al., Investigation and modeling of catalytic converter acoustical properties in time domain, ICSV 17, 2010, Cairo, Egypt.

- Y. Elnemr, et al. Accurate simulation of exhaust/intake noise under consideration of TC, catalyst, particulate filter

- Yasser Elnemr, Acoustic Modeling and Testing of Turbochargers, CATs, DPFs and Intercoolers, 2011, KTH, Stockholm, Sweden.

- Veloso, R., Elnemr, Y., Reich, F., and Allam, S.: Simulation of Sound Transmission through Automotive Turbochargers. SAE Technical Paper 2012-01-1560, 2012.

- Ying Guo, Yasser Elnemr, et. al., New Simulation Approaches to Predict the Acoustic Behavior of Intake and Exhaust Systems, NAFEMS Dach-Konferenz, 2012

- Yasser Elnemr, Rafael Benedict Veloso, Turbocharged IC-engie intake noise prediction based on linear acoustics, Tagungsband AIA-DAGA 2013

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- Yasser Elnemr, Rafael Benedict Veloso, Precise linear 1D acoustic simulation of intake and exhaust systems, 2nd International ATZ Conference, 2013

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- Josef Girstmair, Yasser Elnemr, et. Al. Simulation based acoustic design and analysis of intake and exhaust systems, Aachener Akustik-Kolloquium, 2014

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- Rafael Benedict Veloso, Yasser Elnemr, et. Al, A quasi-3D linear acoustic network representation of mufflers including higher-order modes, ICSV23-23rd International Congress on Sound & Vibration, 2016

- Rafael Veloso, Yasser Elnemr, Linear acoustic multi-port modeling of automotive charge air coolers, Noise Control Engineering Journal, 2017

- Rafael Veloso, Robert Fairbrother, Yasser Elnemr, A 3D Linear Acoustic Network Representation of Mufflers with Perforated Elements and Sound Absorptive Material, SAE Technical Paper,2017

- Raimo Kabral, Yasser Elnemr, et al, Experimental acoustic characterization of automotive twin-scroll turbine, 12th European Turbomachinery Conference, 2017

- Yasser Elnemr, Raimo Kabral, et al, Experimental investigation of transmission loss in an automotive turbocharger compressor under ideal and real engine operating conditions, 12th European Turbomachinery Conference, 2017