



## PERSONAL INFORMATION

Michele Gasparini

WORK  
EXPERIENCE

March 2016 – Present

**Managing Partner for EnT di Gasparini M. e Occhiodoro F. snc**

Managing partner and sound engineer for live events.

**Business** Entertainment

September 2011 - Present

**Sound System Manager and Sound Engineer at Le Muse Theatre Ancona**

September 2020 - Present

**Professor of Elettrotecnica course, Corso di Laurea in Ingegneria Biomedica**

Department of Information Engineering, Università Politecnica delle Marche.

January 2018 - June 2018

**Co.Co.Co.**

Department of Information Engineering, Università Politecnica delle Marche.

- Studio e sviluppo di algoritmi innovativi per la cancellazione attiva del rumore in ambito domotico", nell'ambito del Progetto di ricerca "St/Sv nuovo sistema abitativo sensorizzato con soluzioni tecnologico costruttive volte a incrementare la salubrità ambiente e creare nuovi scenari disupervisione energetica e autoconfigurazione dinamica –HAHS Healthful Autoconfigurable HomeSystem" (POR MARCHE FESR 2014-2020) -CUP B68C15000590007

**Sector** Research

April 2016 – October 2016

**Co.Co.Co.**

Department of Information Engineering, Università Politecnica delle Marche in collaboration with Korg Japan

- Research activity for the project "Studio e sviluppo di un algoritmo per l'emulazione di dispositivi non lineari quali amplificatori e cabinet per chitarra e basso".

**Sector** Research

May 2014 – April 2016

**Post Doc Researcher**

Department of Information Engineering, Università Politecnica delle Marche in collaboration with Faital S.p.a.

- Research activity on Optimization and Simulation of Compression Drivers

**Sector** Research

July 2004 – January 2014

**Freelance Sound Engineer**

Sound Designer for several productions and festivals.

**Business** Entertainment

## EDUCATION AND TRAINING

January 2011 – February 2014

**PhD in Electronics and Circuit Theory**

EQF Level:  
8

Università Politecnica delle Marche, Ancona, Italy.

- Research on Compression Driver Design and nonlinear analysis.
- Advanced studies on optimization algorithms.
- I developed advanced skills in Matlab programming and finite element simulations (COMSOL).
- During this period I followed courses on acoustic and mechanical analysis by the Italian COMSOL team.

January 2011 – January 2014

**Master in Acoustics**

EQF Level:  
7

Università Politecnica delle Marche, Ancona, Italy.

- Master in environmental noise and acoustic design of buildings.

September 2007 – February 2010

**Laurea Specialistica (Second Level Italian Degree) in Electronics with honors  
Università Politecnica delle Marche, Ancona, Italy.**

EQF Level:  
6

- I graduated with the thesis “Study and implementation of efficient techniques for real time synthesis of moving sound sources” .
- I developed deep knowledge of C and C++ programming languages and Digital Signal Processing.

**PERSONAL SKILLS**

Mother tongue

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Cambridge First Certificate in English (FCE)					
French	A2	A2	A2	A2	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Excellent communication skills grown during 5 years of work in a research team and by presenting scientific results in international conferences.

Job-related skills

- Good flexibility and problem solving attitude developed during the work as sound engineer in live events.

- Computer skills
- Excellent knowledge of MatLab environment.
  - Excellent knowledge of the COMSOL Multiphysics FEM simulator.
  - Excellent knowledge of NI Labview environment.
  - Excellent knowledge of C and C++ programming languages.
  - Excellent knowledge of LaTeX writing language.
  - Excellent knowledge of Microsoft Office Suite.
  - Excellent knowledge of Windows and Mac OS systems.
- Driving licence
- A1
  - B

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**ADDITIONAL INFORMATION**

## Publications

- “Combining Evolution Strategies and Neural Network procedures for Compression Driver design,” M. Gasparini, F. Vesperini, S. Cecchi, S. Squartini, F. Piazza, and R. Toppi, Proc. International Joint Conference on Neural Networks, Vancouver, Canada, Jul. 2016.
- “A Comparison of Optimization Methods for Compression Driver Design”, M. Gasparini, E. Capucci, S. Cecchi, R. Toppi, F. Piazza, Proceedings of the 140th AES Convention , Paris, France, May 2016.
- “An Adaptive Multichannel Identification System for Room Response Equalization,” S. Cecchi, L. Romoli, M. Gasparini, A. Carini, and F. Bettarelli, Proc. Int. Conf. Electronics, Computers and Artificial Intelligence, Bucharest, România, Jun. 2015.
- “An Optimization Procedure for a Nonlinear System Identification Approach based on Cubic Splines,” L. Romoli, S. Cecchi, M. Gasparini, and F. Piazza, Proc. Int. Conf. Electronics, Computers and Artificial Intelligence, Bucharest, România, Jun. 2015.
- “Intelligent Acoustic Interfaces with Multisensor Acquisition for Immersive Reproduction,” D. Comminiello, S. Cecchi, M. Scarpiniti, M. Gasparini, L. Romoli, F. Piazza, and A. Uncini, IEEE Transactions on Multimedia, vol. 17, no. 8, pp. 1262–1272, Aug. 2015.
- “Advanced Intelligent Acoustic Interfaces for Multichannel Audio Reproduction,” D. Comminiello, S. Cecchi, M. Gasparini, M. Scarpiniti, A. Uncini, and F. Piazza, Proc. IEEE World congress on Computational Intelligence, Beijing, China, Jul 2014, pp. 3577–3584.
- “Introducing Legendre Nonlinear Filters”, Carini, S. Cecchi, M. Gasparini, G. L. Sicuranza, Proceedings of ICASSP 2014 , Firenze, Italy, May 2014.
- “Multiphysic modeling and heuristic optimization of compression driver design”, M. Gasparini, S. Cecchi, F. Piazza, E. Capucci and R. Toppi, Proceedings of the 136th AES Convention , Berlin, Germany, April 2014.
- “Application of common-pole parallel filters to nonlinear models based on orthogonal functions”, L. Romoli, S. Cecchi, B. Bank, M. Gasparini and F. Piazza, Proceedings of the 136th AES Convention , Berlin, Germany, April 2014.
- “Identification of Hammerstein model using Cubic Splines and FIR filtering”, M. Gasparini, L. Romoli, S. Cecchi, and F. Piazza, Proceedings of the International Symposium on Image and Signal Processing and Analysis , Trieste, Italy, September 2013.
- “Audio System Identification based on Hammerstein Models using Cubic Splines”, M. Gasparini, A. Primavera, L. Romoli, S. Cecchi, and F. Piazza, Proceedings of the 134th AES Convention , Rome, Italy, May 2013.
- “Hybrid Reverberation Algorithm: a Practical Approach”, Primavera, M. Gasparini, S. Cecchi, L. Romoli, and F. Piazza, Proceedings of the AIA-DAGA Conference , Merano, Italy, March 2013.
- “Kinect application for a Wave Field Synthesis based Reproduction System”, M. Gasparini, S. Cecchi, L. Romoli, A. Primavera, P. Peretti and F. Piazza, Proceedings of the 133rd AES Convention , San Francisco, USA, October 2012.
- “Approximation of Dynamic Convolution Exploiting Principal Component Analysis: Objective and Subjective Quality Evaluation”, A. Primavera, S. Cecchi, L. Romoli, M. Gasparini, and F. Piazza, Proceedings of the 133rd AES Convention, San Francisco, US, October 2012.
- “An Efficient DSP Implementation of a Dynamic Convolution Approach Using Principal Component Analysis”, A. Primavera, S. Cecchi, L. Romoli, M. Gasparini, and F. Piazza, Proceedings of the EDERC2012, Amsterdam, September 2012.
- “Adaptive identification of nonlinear models using orthogonal nonlinear functions”, L. Romoli, M. Gasparini, S. Cecchi, F. Piazza, 48th AES Conference, September 2012, Munich, DE.

- “Quality and Performance Assessment of Wave Field Synthesis Reproducing Moving Sound Sources”, Gasparini et al., Proc. 131st AES Convention, October 2011, New York (USA).
  - “Real Time Reproduction of Moving Sound Sources by Wave Field Synthesis: Objective and Subjective Quality Evaluation”, Gasparini et al., Proc. 130th AES Convention, May 2011, London (UK).
- Conferences**
- 4-7 May 2016: 140th AES Convention in Paris (FR).
  - 25-27 June 2015: 7th ECAI International conference in Bucharest (RO).
  - 26-29 April 2014: 136th AES Convention in Berlin (DE).
  - 4-7 May 2013: 134th AES Convention in Roma (IT).
  - 18-21 March 2013: AIA-DAGA in Merano (IT).
  - 21-23 September 2012: 48th AES Conference in Munich (DE).
  - 20-23 October 2011: 131st AES Convention in New York (USA).
  - 13-16 May 2011: 130th AES Convention in London (UK).
  - 3-5 Novembre 2005: AES Italian Section Convention in Como (IT).
- Memberships**
- IEEE member since 2012 to 2017.
  - Audio Engineer Society (AES) member since 2005 to 2017.
  - Italian Acoustic Association (AIA) member from 2012 to 2016.
- Licences**
- I obtained the Engineering License in 2010.
  - Member of the Ordine degli Ingegneri di Ancona since 2010.
  - I obtained the Audinate DANTE Certification Level 2 in 6/2/2017 at the ISE Amsterdam.
  - I followed a course on Symetrix systems on 16/2/2017 at Sisme Ancona.
  - I followed a course on Basic and Advanced Acoustic Modeling with COMSOL Multiphysics v4.3 b at COMSOL Brescia, Italy, in June 18th, 2013.

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 “Codice in materia di protezione dei dati personali” e dell’art. 13 del GDPR (Regolamento UE 2016/679) e la loro pubblicazione su portale web di ateneo.

Ancona, lì 8/5/2021

Michele Gasparini