

CV Thomas Hanselmann



My name is Thomas Hanselmann and I studied Electrical Engineering with major in communications at ETHZ during 1988 to 1993. After some research and industrial experience in Switzerland, I migrated to Australia and completed my PhD at the University of Western Australia. Later, I worked as a Research Fellow at the University of Melbourne for almost five years. During this time, I started my consulting company, Wise Engineering Solutions Pty Ltd, in 2006 through which I did some consulting in Australia and Switzerland. This finally brought me back to Switzerland in 2013 permanently. Currently, I work for Hombrechtikon Systems

Engineering AG (HSE AG) as a Principal Algorithm & Data Analytics Engineer in the field of medical device development, where I was involved in Next-Generation-DNA-Sequencing and my latest project is in robot vision to improve throughput in sample preparation robots, used for sample preparation for PCR tests. I have broad scientific interests spanning physics, chemistry and biology where I love to apply my knowledge of sensor networks, computer vision, machine learning & statistics.

If you want to know more or get in contact: <https://www.linkedin.com/in/thomas-hanselmann-23b4a9147>

Vision for IEEE:

Less administration, more projects, webinars, enable connections, exchange with members and foster young members. Having fun together.

Short Bio & motivation statement Luca Dalessandro



Short Biography

Education: PhD in power electronics ETH Zurich, Prof. Kolar (2007).

Professional Experience:

- 2008-2011, R&D, Project Manager, Patent Officer, Product Manager @ Alstom (General Electric), Baden & Birr. Focus: Calculation and design of electrical machines
- 2011-2014, R&D and Project Manager @ ABB, Turgi Focus: HW & SW development MV frequency converters
- 2014-2020 at Schaffner Group, Luterbach (SO), Product Marketing Manager & Corporate strategy Core Team Member. Since 2016 Group Technology Manager of Schaffner Group.
- Since Oct. 2020- Managing Director of the ETIX GmbH and Expert at INNOSUISSE, Swiss Innovation Agency.
- Teaching activities: Virginia Tech (2006-2007), ETH Zurich (2013-2014).
- Senior Member of IEEE (# 41507855)
- Since 2017: Co-chairman of the [European PhD School in Power Electronics](#). Chairman of the IES Chapter - IEEE Swiss Section.
- Associate Editor of the Transactions on PE and of the Transactions on IE - International Expert of the IEC 77/SS 77A/WG 8 Regulation of the 0-150 kHz Range.
- Over 30 publications in scientific journals /conferences;10 patents/patent applications

During my tenure as Vice-Chair I will support the activities of the IEEE Swiss Section with my expertise and with my nearly 20- year experience as active IEEE member. I will do my best to establish synergies with other IEEE Sections, in particular to the Italian one, and also to other innovative organisations in Switzerland as Innosuisse and Electrosuisse.

Alexis Ponchon (Secretary)



Native from France, I completed in 2012 my Masters of Industrial Engineering at Mines Saint-Etienne, near Lyon. During my studies, I worked for 3 years on a research project of ultra low temperature NMR probe (10K) at CEA-Grenoble. This is the first time that I got to learn about IEEE as my work involved the instrumentation and electronics of the NMR probe. After graduating, I moved to Fribourg, Switzerland to work as Mechanical engineer and production manager for LS Instruments, an SME developing Light Scattering devices for fundamental research and various industries such as chemistry and pharmaceutical. I ultimately moved to Zürich in 2019 and found a position as Mechanical engineer at HSE●AG where I met Thomas Hanselmann. In this new role, I develop robotic handling systems and laboratory diagnostic devices. Thomas introduced me to IEEE and thanks to him, I could attend a simulation course on Ansys Maxwell which served me for the design of a DNA/RNA purification device. I am interested in new technologies and innovation in general, with affinities for robotic systems and instrumentation. I hope to serve as your new secretary of IEEE Switzerland and help to strengthen the membership community.



Mathieu Coustans

RFIC Engineer

Position Statement

I have been an IEEE Member for the past 9 years. I have been leading the EPFL Student Branch for 2 years and a treasurer for 1 year, re-instantiated the Chapter as of June 2018 and established a committee as of March 2019, and secretary since then.

I have worked and supported various events locally that I believe have been valuable for the members. A virtual component was added to our chapter in the pandemic time raising further interest.

I would be glad to contribute my time and efforts in making:

1. The reporting of our financial status to the committee and Geographical unit.
2. Executive actions that entail to the treasurer in the section governance.
3. Rouse to Bottom-up action within our section.

CONTACT ME

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Professional History



2020 – present
Following Acquisition



2019 – 2020
Cellular IoT Engineer



2014 – 2019
Mixed Signal IC Design



2011 – 2014
Mixed Signal IC Design



2010
Automotive CC Radar Test eng.



2008 – 2010
Embedded System dev

EDUCATION

EPFL
Lausanne, VD | 2019



Ph.D , Microengineering

EPFL Thesis n°9146 : "Toward ultra-low power design methodology for frequency generation in the IoT design space".

Instructor : 1 Ph.D Seminar, 2 recurring Master Lectures/Lab, 3 recurring Bachelor Lectures / Labs , 3 Granted US Patents

Author : 1 Book, 2 Journal , 17 Magazines, 9 Conference paper.

IEEE committee History



2019 – present
Secretary

2018 – 2019
Founding Chair



2017 – 2018
Secretary

2016 – 2018
Chair

INTERESTS



Photography



(E-)learning



Multimedia



Travel



Alpine Activities