

CURRICULUM VITAE

Univ.-Prof. Dr.-Ing. Dipl.-Kfm. Alexander Sauer

Director of the Institute for Energy Efficiency in Production EEP
University of Stuttgart

Acting Director of Fraunhofer IPA



PERSONAL DETAILS

Birth August 21, 1976, in Coimbra, Portugal

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PROFESSIONAL CAREER

since 2020	Acting Director Fraunhofer Institute for Manufacturing Engineering and Automation IPA
since 2015	Director Institute for Energy Efficiency in Production, University of Stuttgart
2019 – 2024	Head of Division “Resource-efficient Production”, Fraunhofer IPA
2015 – 2019	Head of Department “Efficiency Systems”, Fraunhofer IPA
2011 – 2015	Munich University of Applied Sciences <ul style="list-style-type: none">– Full Professor in Manufacturing Technology– Head of the Laboratory for Applied Manufacturing Technology
2006 – 2010	HOERBIGER Automotive Komfortsysteme GmbH <ul style="list-style-type: none">– Board Member, Head of Operations– Responsibility for industrial engineering, production, planning, logistics, maintenance, production strategies– Responsible for operations sites in Poland and the US– Business segments: automotive hydraulic motion control systems, automotive pneumatic seating comfort systems, pneumatic gear shift support systems for trucks
2002 – 2006	Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen University

- Research Associate
- 2005 Chief Engineer, Head of Business Development

EDUCATION

2002 – 2005 –	Postgraduate at RWTH Aachen University Dr.-Ing. (summa cum laude) Doctoral Thesis: Power-based Development of Intellectual Capital in Collaborations in the Manufacturing Industry
1997 – 2002 –	Studies at RWTH Aachen University Major subjects: Production Management, Machine Tools, Manufacturing Technologies, Quality Management, International Management, Technology and Innovation Management
1996 – 1997 –	Compulsory Military Service in the German Federal Armed Forces Military Music Corps, Düsseldorf; Ambulance and Musician
1987 – 1996	Marienschule Leverkusen-Opladen

HONORS AND AWARDS

2007	Borchers Award, RWTH Aachen University
2004	CES-Award, VDI
2003	Springorum Award, RWTH Aachen University
2004 – 2006	Ph.D. Scholarship, Konrad Adenauer Foundation
2003 – 2005	Scholarship e-fellows.net

MEMBERSHIPS AND COMMITTEE WORK

Member of Expert Panel "Circular Economy" of the German Federal Ministry of Education and Research BMBF EUREKA

Curator of the Gerlinger Stiftung

Board Member ODCA, "Open Direct Current Alliance" of the German Electro and Digital Industry Association ZVEI

Board Member "Leichtbauzentrum BW e.V."

Supervisory Board Member "Technologieförderung Tübingen-Reutlingen"

SCIENTIFIC FOCUS

- Industrial Energy Systems
- Sustainable Production and Quality
- Additive Manufacturing and Digital Printing Technologies
- Lightweight Construction Technologies
- Biological Transformation of Value Added
- Production Technology for new Energy Technologies
- Circular Economy

UNIVERSITY ENGAGEMENT

- ARENA2036 : Active Research Environment for the Next Generation of Automobiles
- Graduate School of Excellence advanced Manufacturing Engineering (GSaME)
- S-TEC: Stuttgart Technology and Innovation Campus
- Campus Schwarzwald
- Stuttgart Research Partnership CHEMampere
- Stuttgart Research Initiative Circular Production
- Stuttgart Research Initiative Valorization of Bioresources