



CURRICULUM VITAE

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

Director of Fraunhofer IPA
Responsible for the divisions "Resource-efficient Production" and
"Manufacturing and Process Engineering"

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

PERSONAL DETAILS

Birth August 21, 1976, in Coimbra, Portugal

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Manufacturing Engineering and Automation IPA
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PROFESSIONAL CAREER

since 2020	Director Fraunhofer Institute for Manufacturing Engineering and Automation IPA
since 2019	Head of Division "Resource-efficient Production", Fraunhofer IPA
2015 – 2020	Head of Department "Efficiency Systems", Fraunhofer IPA
since 2015	Director Institute for Energy Efficiency in Production, University of Stuttgart
2011 – 2015	Munich University of Applied Sciences – Full Professor in Manufacturing Technology – Head of the Laboratory for Applied Manufacturing Technology

2006 – 2010	<p>HOERBIGER Automotive Komfortsysteme GmbH</p> <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	<p>Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen University</p> <ul style="list-style-type: none"> – Research Associate – 2005 Chief Engineer, Head of Business Development

EDUCATION

2002 – 2005	<p>Postgraduate at RWTH Aachen University Dr.-Ing. (summa cum laude)</p> <ul style="list-style-type: none"> – Doctoral Thesis: Power-based Development of Intellectual Capital in Collaborations in the Manufacturing Industry
1997 – 2002	<p>Studies at RWTH Aachen University</p> <ul style="list-style-type: none"> – Major subjects: Production Management, Machine Tools, Manufacturing Technologies, Quality Management, International Management, Technology and Innovation Management
1996 – 1997	<p>Compulsory Military Service in the German Federal Armed Forces</p> <ul style="list-style-type: none"> – Military Music Corps, Düsseldorf; Ambulance and Musician
1987 – 1996	<p>Marienschule Leverkusen-Opladen</p>

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”
- Head of the Technical Committee (VDI) “Energy Flexible Factories”
- Advisory Board Member “Reutlinger Energiezentrum für Dezentrale Energiesysteme & Energieeffizienz (REZ)”
- Advisory Board Member “Deutsche Unternehmensinitiative Energieeffizienz e. V.” DENEFF

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