



## CURRICULUM VITAE

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

Director Fraunhofer IPA

Scientific Director for Sustainability, Circular Economy and Value Creation Systems  
at Fraunhofer IPA

Head of Institute for Energy Efficiency in Production, University of Stuttgart

## PERSONAL DETAILS

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Birth	August 21, 1976, in Coimbra, Portugal
Adress	Fraunhofer Institute for Manufacturing Engineering and Automation IPA Nobelstrasse 12   70569 Stuttgart   Germany Phone +49 711 970-3600 alexander.sauer@ipa.fraunhofer.de

## PROFESSIONAL CAREER

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since 2024	Scientific Director for Sustainability, Circular Economy and Value Creation Systems
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	HOERBIGER Automotive Komfortsysteme GmbH – 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

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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

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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

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Advisory Board Member Sustainable Bioeconomy, State Government of Baden-Württemberg

Expert and Member of the core group for the evaluation of the Swiss Competence  
Centers for Energy Research, SCCER of InnoSuisse (Schweizerische Agentur für Innovations-  
förderung)

Head of the Technical Committee (VDI) »Energy Flexible Factories«

Member of the Advisory Board of Reutlinger Energiezentrum für Dezentrale Energie-  
systeme & Energieeffizienz (REZ)

Member of the Advisory Board of Deutsche Unternehmensinitiative Energieeffizienz e. V. –  
DENEFF

Chairman of the Advisory Board of Umwelttechnik BW GmbH, Landesagentur für  
Umwelttechnik und Ressourceneffizienz Baden-Württemberg

Member of the Advisory Board of Regionale Kompetenzstellen Netzwerk Energieeffizienz of the Ministry of the Environment, Climate Protection and the Energy Sector Baden-Württemberg

## SCIENTIFIC FOCUS

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- 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

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- 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