



## **Personal Details**

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Name	Univ.-Prof. Dr.-Ing. Dipl.-Kfm. Alexander Sauer
Date & Place of Birth	21.08.1976, Coimbra/Portugal
Nationality	German
Marital Status	married, two children

## **Work Experience**

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- since 2020      ➤ Director Fraunhofer Institute for Manufacturing Engineering and Automation IPA
- until 2019      ➤ Head of Department Efficiency Systems
- since 2016      ➤ Divisional Director Resource-efficient Production
  
- since 2015      ➤ University of Stuttgart  
Director of the Institute for Energy Efficiency in Production (EEP)
  
- 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  
responsibility for the international operations
  - 1st. tier automotive supplier with three production sites in Germany, Poland and the US
  - business segments: automotive hydraulic motion control systems, automotive pneumatic seating comfort systems, pneumatic gear shift support systems for trucks
  - responsibility for industrial engineering, production planning, production, logistics, maintenance, production strategies in terms of technologies and capacities for medium and long range planning
  
- 2002-2006      Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen University (full-time)
  - Chief Engineer, Head of Business Development (01.10.2005)
  - Team Manager, Head of Collaboration Management (01.05.2005)
  - Research Associate

## **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 (Dipl.-Ing.)  
Production Management, Machine Tools, Manufacturing Technologies, Quality Management  
➤ Major subjects (Dipl.-Kfm.)  
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,  
➤ Secondary School 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

## **Committee Work and Honorary Appointments**

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- since 2018 Expert and Member of the core group for the evaluation of the Swiss Competence Centers for Energy Research, SCCER of InnoSuisse (Schweizerische Agentur für Innovationsförderung)
- since 2018 Head of the Technical Committee (VDI) „Energy Flexible Factories“
- since 2018 Member of the Advisory Board of Reutlinger Energiezentrum für Dezentrale Energiesysteme & Energieeffizienz (REZ)
- since 2018 Member of the Advisory Board of Deutsche Unternehmensinitiative Energieeffizienz e. V. - DENEFF
- since 2017 Chairman of the Advisory Board of Umwelttechnik BW GmbH, Landesagentur für Umwelttechnik und Ressourceneffizienz Baden-Württemberg
- since 2016 Member of the Advisory Board of Regionale Kompetenzstellen Netzwerk Energieeffizienz of the Ministry of the Environment, Climate Protection and the Energy Sector Baden-Württemberg
- 2016-2019 Jury Member of the funding program „Ressourceneffiziente Technologien Baden-Württemberg – ReTech-BW“

## **Important Publications**

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Sauer, Alexander et al. (Hrsg.)

### **Energieflexibilität in der deutschen Industrie**

Ergebnisse aus dem Kopernikus-Projekt - Synchronisierte und energieadaptive Produktionstechnik zur flexiblen Ausrichtung von Industrieprozessen auf eine fluktuierende Energieversorgung (SynErgie)

Stuttgart: Fraunhofer Verlag, 2019 - 730 S.

Sauer, Alexander et al

### **Energiespeicher in Produktionssystemen**

Herausforderungen und Chancen für industrielle Einsatzoptionen. ESIP-Studie

Stuttgart: Fraunhofer IPA, 2019 - 99 S.

Koether, Reinhard, Sauer, Alexander

### **Fertigungstechnik für Wirtschaftsingenieure**

5., überarb. u. erw. Aufl.

München: Hanser, 2017 - 492 S.

Sauer, Alexander, Bauernhansl, Thomas (Hrsg.)

### **Energieeffizienz in Deutschland** - eine Metastudie: Analyse und Empfehlungen.

Berlin: Springer Vieweg, 2016 - 242 S.

Sauer, Alexander

### **Machtbasierte Entwicklung von Intellectual Capital in Kollaborationen der produzierenden Industrie.** Dissertation, RWTH Aachen

Aachen: Shaker, 2005. - VIII, 186 S.