



Fraunhofer

IPA

FRAUNHOFER INSTITUTE FOR MANUFACTURING ENGINEERING AND AUTOMATION IPA



CURRICULUM VITAE

Univ.-Prof. Dr.-Ing. Thomas Bauernhansl

Director of Fraunhofer IPA

Responsible for the divisions »Resource-efficient Production«, »Networked Production«, Intelligent Automation and Clean Manufacturing« and »Medical Engineering and Biotechnology«

Director of the Institute of Industrial Manufacturing and Management IFF, University of Stuttgart

PERSONAL DETAILS

Birth December 3, 1969 in Miltenberg (Germany)

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Manufacturing Engineering and Automation IPA
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SCIENTIFIC FOCUS

- Personalized Production
- Sustainable Production and Quality Management
- Advanced Complexity Management
- Factory Planning and Production Optimization
- Order Management and Value Networks
- Coating Systems and Painting Technology
- Plating Technology
- Functional Materials
- Additive Manufacturing and Digital Printing Technologies
- Lightweight Construction Technologies
- Industrie 4.0 Production Strategies

UNIVERSITY ENGAGEMENT

- ARENA2036 : Active Research Environment for the Next Generation of Automobiles
- S-TEC: Stuttgart Technology and Innovation Center
- PZS Produktionstechnisches Zentrum Stuttgart (Center for Production Technologies Stuttgart)
- Guest Lecturer ETH Zürich Executive MBA in Supply Chain Management (MBA ETH SCM)

MEMBERSHIPS

Member of High-Tech Gründerfonds Investitionskomitee K1

Member of Scientific Board Bundesvereinigung Logistik (BVL) e.V.

Member of Steering Committee of the Fraunhofer-Allianz Ambient Assisted Living (AAL)

Member of the Advisory Board of the Executive Committee Robot Olympics

Member FGW Forschungsgemeinschaft Werkzeuge und Werkstoffe

Member of the CONNECT Advisory Forum of the EU- Program Horizon 2020

Member of Board of Directors EFFRA (European Factories of the Future Research Association)

Board Member of Institute for Energy Efficiency in Production, University of Stuttgart (EEP)

Member of Strategy Committee "Platform Industrie 4.0" of the German Federal Government/ Federal Ministry for Economic Affairs and Energy

Board Member "Future of Labor/Industrie 4.0" of the German Metal Workers Union/IG Metall

Vice-Chairman of the Steering Committee Alliance Industrie 4.0 BW

Member and FHG-Representative ManuFuture-DE

Member of the German Academic Society for Production Engineering (WGP)

Chair of Commission Ingenieurwissenschaften@bw2025
Ministry of Science, Research and the Arts Baden-Württemberg

Supervisory Board Member Technologieförderung Reutlingen-Tübingen GmbH

Member of Board of Trustees IMPULS Foundation VDMA

Member of Scientific Advisory Board Platform Industrie4.0

Managing Board Member Lightweight Construction Center Baden-Württemberg – LBZ-BW e.V.

Member of Advisory Board Leibold Group

Member of Gesellschaft für Fertigungstechnik Stuttgart

PROFESSIONAL CAREER

Today	Head of Fraunhofer Institute for Manufacturing Engineering and Automation IPA and Institute of Industrial Manufacturing and Management IFF University of Stuttgart
10/2012–1/2015	Head of University Institute for Energy Efficiency in Production EEP
7/2014 –10/2016	Dean of Studies "Technology Management" (University of Stuttgart)

1/2011–8/2011	Freudenberg Sealing Technologies Head Global Process Technology
10/2007–12/2010	Freudenberg Sealing Technologies Head of Technology Center Europe <ul style="list-style-type: none"> – Segmentation of production and location planning – Facility planning, outsourcing and ramp up management – Lean production (inclusive Six Sigma), technology management
11/2003–9/2007	Freudenberg Systems and Tools Engineering Ltd. Speaker of corporate management
7/2003–10/2003	Freudenberg Systems and Tools Engineering Ltd. Director of business unit "tool manufacture" <ul style="list-style-type: none"> – Freudenberg Systems and Tools Engineering Ltd. – Assistant of Corporate Management
June 2002	Doctoral Degree Dr.-Ing. (grade: 1, 0/with honor) Thesis: Evaluation of Synergy Potential in Mechanical Engineering
3/2001–3/2003	Department Manager of "Integrated Product Development" and starting 2002 "Corporate Development"
6/1999–2/2001	Group Manager "Process and Technology Planning"
3/1998–3/2003	Research Assistant at the Laboratory of Machine Tools and Production Engineering (WZL), Chair of Production Engineering (Prof. Eversheim/ Prof. Schuh), RWTH Aachen University

EXPERIENCE ABROAD

10/2007–8/2011	Responsibility for 50 Freudenberg production sites worldwide
2003–2007	Responsibility for production site in Langres, France and Bursa, Turkey
10/1995–5/1996	Internship at the company Equinox in Bogota, Columbia

UNIVERSITY EDUCATION

2/1998	Graduation: Dipl.-Ing. at RWTH Aachen
1991–1998	Study of Mechanical Engineering at RWTH Aachen University Focus: Manufacturing Engineering

MILITARY SERVICE

9/1991	Lieutenant Reserve Officer
1989–1991	Soldier-in- training/ reserve officer in the paratrooper's battalions

SCHOOL

5/1989	High School Graduation (Abitur)
1980–1989	Karl-Ernst-Gymnasium, Amorbach
1976–1980	Elementary School, Weilbach

AWARDS

2002	Borchers-Plakette for doctoral thesis "with honor"
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