


PERSONAL INFORMATION

Prof. Dr.-Ing. Dipl.-Wirt. Ing. Jörg Niemann



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Date of birth 06 July 1970 | Nationality German

WORK EXPERIENCE

01/07/2012 - Present

Full Professor Mechanical Engineering and Business

Duesseldorf University of Applied Sciences , Duesseldorf (Germany), Faculty of Mechanical and Process Engineering

Head of FMDauto Institute for Product Development an Innovation (annual revenues ca. 700k€)

Head and founder of FLiX Research Centre for Life Cycle Excellence (annual revenues ca. 200k€)

Program Manager for the studies of mechanical engineering & business (Bachelor and Master)

Teaching classes in Production and Business Management:

- Life Cycle & Services Management (English, Master Level)
- International Technical Sales (English, Master Level)
- Methods of production Optimisation (German, Master Level)
- Financial calculation (German, Bachelor Level)
- Business Plan Development (German, Bachelor Level)

Executing research projects in Life Cycle Management and production optimisation with industrial partners and public research (State, Country, EU)

Member of the faculty board

Member of the senate of the Duesseldorf University of Applied Sciences

01/07/2011 - 30/06/2012

Member of the Advisory Board

ABB Automation GmbH , Mannheim (Germany)

01/04/2008 - 30/06/2012

Head of Service Life Cycle Management Process Control

ABB Automation GmbH , Ratingen (Germany)

- Leadership in staff and budget for Service Life Cycle Management (group size: 6, turnover 5 Mio.€ p.a.)
- Development and sales of innovative business models for services

01/04/2008 - 30/06/2012

Product Manager Life Cycle Services Process Control

ABB Automation GmbH , Ratingen (Germany)

Development of life cycle strategies

Development of innovative service products and market roll-out

Global product owner for service product "Life Cycle Index"

Responsible for budget and staff

01/05/1998 - 30/03/2008

Head of the research group Life Cycle Management

Institute of Industrial Manufacturing and Management (IFF), University of Stuttgart/ Fraunhofer Institute of Manufacturing Engineering and Automation (IPA) , Stuttgart (Germany)

Project Manager, responsible for budget and staff

Research Focus: Life Cycle Management with regard to cost, production optimisation

EDUCATION AND TRAINING

07/06/2007 **Dr.-Ing. (Ph.D.)** EQF level 8

Degree of the University of Stuttgart, Stuttgart (Germany)
 Industrial validated Ph.D. in production planning and optimisation:
 „A method for life cycle controlling of production systems“
 Content: A closed loop model for long-term investment optimisation in production systems

01/10/1990 - 30/09/1996 **Dipl.-Wirt. Ing.** EQF level 7

Degree of the University of Paderborn (Germany)
 Studies of Mechanical Engineering and Business
 Diploma thesis in collaboration with Benteler Automotive, Paderborn/Germany

09/1993 – 03/1994 **Studies abroad**

University of Economics and Business, Athens/Greece

02/1997 – 04/1997 **Internships abroad**

& 09/1995 – 11/1995 Frontier-Kemper Constructors, Inc., Evansville, IN/USA

10/06/1990 **School leaving degree** EQF level 4

Gymnasium Paulinum, Münster (Germany)

PERSONAL SKILLS

Mother tongue(s) German

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
[Common European Framework of Reference for Languages](http://www.cerl.eu)

Communication skills Excellent communication skills gained through my position as department manager in a large international company
 Speaker and presenter on national and international conferences and industrial expert forums

Organisational / managerial skills Leadership in research (acquisition and execution of large research projects)
 Project management in industry and research (various projects >50k€ up to 1,5 Mio€)

Job-related skills Good command of life cycle related issues (leader of various projects in this field)
 Six sigma green belt
 Six sigma yellow belt trainer

Memberships Board Member of the Association of German Engineers (regional group Niederrhein)
 Member of the Graduates Institute Northrhine Westphalia

ADDITIONAL INFORMATION

05/1997 – 02/1998

Military Service, Serving as a first-aid man in a dental group, Münster/Germany

Honors and awards

- 07/1993 Scholarship for a study abroad awarded by the faculty of business administration awarded by the University of Paderborn (rector's list)
- 08/1995 Scholarship for a overseas training awarded by the German Academic Exchange Service (DAAD)
- 02/1998 Award of the German army for the implementation of a standard procedure for the phone based anamnesis of patients
- 02/2002 Appointment of Honorary Professor awarded by the TU Cluj-Napoca (Romania)
- 12/2009 Innovation award ABB Europe for the development and successful introduction of the Life Cycle Index®
- 06/2012 Innovation award Service ABB Global for the development and successful market introduction of the IT Cyber Security Fingerprints
- 12/2014 High-Tech-Service Know how Transfer special award for the development of an academic studies programme in the area of service engineering & management
- 01/2019 Fellowship for innovations in digital academic teaching awarded by the state of Northrhine Westfalia

Important publications

- Niemann, J.; Pisla, A.: Sustainable Potentials and Risks Assess in Automation and Robotization Using the Life Cycle Management Index Tool—LY-MIT. Sustainability 2018, 10, 4638.
- Niemann, J.; Schemann, T., Erkens, J.: Servitization - pathway of transformation from product manufacturer towards a service provider. In: 2018 International Conference on Production Research – Africa, Europe, Middle East 5th International Conference on Quality and Innovation in Engineering and Management, July 25-26, 2018, Cluj-Napoca, Romania
- Niemann, J.; Basson, A.; Fussenecker, C.; Kruger, K.; Schlösser, M.; Turek, S.; Amarnath, H. Umadevi: Implementation of Eye-Tracking technology in Holonic Manufacturing Systems. In: Procedia - Social and Behavioral Sciences 238 (2018) pp 37-45, April 2018
- Niemann, Jörg: Die Service Manufaktur. Shaker Verlag 2016
- Niemann, Jörg: Life Cycle Management- das Paradigma der ganzheitlichen Produktlebenslaufbetrachtung. In: Spath, Dieter; Westkämper, Engelbert; Bullinger, Hans-Jörg; Warnecke, Hans-Jürgen (Hrsg.): Neue Entwicklungen in der Unternehmensorganisation. Berlin, Springer-Vieweg, VDI Buch, 2017
- Niemann, Jörg: Ökonomische Bewertung von Produktlebensläufen- Life Cycle Controlling. . In: Spath, Dieter (Hrsg.) u.a.: Neue Organisationsformen im Unternehmen In: Spath, Dieter; Westkämper, Engelbert; Bullinger, Hans-Jörg; Warnecke, Hans-Jürgen (Hrsg.): Neue Entwicklungen in der Unternehmensorganisation. Berlin, Springer-Vieweg, VDI Buch, 2017
- Westkämper, Engelbert; Niemann, Jörg: Digitale Produktion – Herausforderung und Nutzen. In: Spath, Dieter; Westkämper, Engelbert; Bullinger, Hans-Jörg; Warnecke, Hans-Jürgen (Hrsg.): Neue Entwicklungen in der Unternehmensorganisation. Berlin, Springer, 2017
- Niemann, Jörg: The life Cycle Index – A tool to measure life cycle management. In: Qiem, 2nd International Conference on Quality Innovation in Engineering and Management, Cluj-Napoca, Romania, 22nd-24nd November 2012, ISSN 1582-2559, TU Cluj –Napoca, 2012, S. 385-388
- Niemann, Jörg et al., (Mitarb.), ZVEI Zentralverband Elektrotechnik- und Elektroindustrie e.V. Fachverband Automation (Hrsg.): Life-Cycle-Management for Automation Products and Systems. A Guideline by the System Aspects Working Group of the ZVEI Automation Division, Frankfurt, ZVEI, 2012
- Schrieber, Reinhard; Wollschläger, Martin; Mühlhause, Mathias; Niemann, Jörg: Life-Cycle-Excellence in der Automation - Kompatibilität als Schlüssel für Nachhaltigkeit. In atp Automatisierungstechnische Praxis, 53. Jahrgang, Oldenbourg Industrieverlag 2011
- Niemann, Jörg; Tichkiewitch, Serge; Westkämper Engelbert: Design of Sustainable Product Life Cycles, Springer Verlag, Heidelberg Berlin, 2009
- Morar, Liviu; Westkämper, Engelbert; Abrudan, Ioan; Pisla, Adrian; Niemann, Jörg; Manole, Ion: Planning and Operation of Production Systems, Fraunhofer IRB Verlag, 2008
- Niemann, Jörg: Eine Methodik zum dynamischen Life Cycle Controlling von Produktionssystemen. Heimsheim : Jost-Jetter Verlag, 2007