

Europass Curriculum Vitae

Personal information



First name(s) / Surname(s) Klaus Radermacher
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Nationality German
Date of birth 21 May 1964
Gender Male

Occupational field **University Professor**

Work experience

<p>Dates 1988-1990</p> <p>Occupation or position held Assistant researcher</p> <p>Main activities and responsibilities research on ergonomics and robotics of dental <i>work places</i></p> <p>Name and address of employer Institute for Human Factors, Darmstadt Technical University, Darmstadt, Germany</p>	<p>Dates 1990-1991</p> <p>Occupation or position held Assistant researcher</p> <p>Main activities and responsibilities research in the departments for „Ergonomics in Medicine“ and „Biomechanics“</p> <p>Name and address of employer Forschungsgesellschaft für Biomedizinische Technik Aachen e.V., Aachen, Germany</p>
<p>Dates 1991-2001</p> <p>Occupation or position held Senior researcher and founding head of the department for „Surgical Therapy Technology“</p> <p>Main activities and responsibilities research on computer assisted surgery, biomechanics and ergonomics in medicine</p> <p>Name and address of employer Forschungsgesellschaft für Biomedizinische Technik Aachen e.V., Aachen, Germany</p>	<p>Dates 2001-2005</p> <p>Occupation or position held Senior researcher and head of the „Surgical Therapy Technology Lab“ at the Chair of Applied Medical Engineering, Medical Faculty of the RWTH Aachen University</p> <p>Main activities and responsibilities Teaching and research on computer assisted surgery, biomechanics and ergonomics in medicine</p> <p>Name and address of employer RWTH Aachen University, Aachen, Germany</p>
<p>Dates 2001-2006</p> <p>Occupation or position held Co-Founder and CEO of SurgiTAIX AG, Aachen, Germany</p> <p>Main activities and responsibilities management and research</p> <p>Name and address of employer SurgiTAIX AG, Aachen, Germany</p>	

Dates 2005 -
Occupation or position held Head of the Chair of Medical Engineering, Full professor and Lecturer
Faculty of Mechanical Engineering of the RWTH Aachen University,
Member of the Board of Directors of the Helmholtz-Institute for Biomedical Engineering of the RWTH
Aachen University
Main activities and responsibilities Teaching and research (actually about 20 PhD students, 2 Post Docs, more than 40 support
assistance staff; about 2,2 M€ turnover (about 80% third party funding) in 2019)
Name and address of employer RWTH Aachen University, Aachen, Germany

Education and training

Dates 1983-1988
Title of qualification awarded Dipl.-Ing.
Principal subjects / occupational skills covered Mechanical Engineering
Name and type of organisation providing education and training Darmstadt University of Technology, Darmstadt, Germany

Dates 1988-1990
Title of qualification awarded (Physikum)
Principal subjects / occupational skills covered Human Medicine
Name and type of organisation providing education and training Mainz University, Mainz, Germany

Dates 1999
Title of qualification awarded Dr.-Ing. (Faculty of Mechanical Engineering, RWTH Aachen University)
Principal subjects / occupational skills covered Biomedical Engineering
Name and type of organisation providing education and training Chair of Biomedical Engineering, Faculty of Electrical Engineering and Information Technology,
RWTH Aachen University, Aachen, Germany

Personal skills and competences

Mother tongue(s) **German**

Other language(s)

Self-assessment
European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B1	Proficient user	B2	Proficient user	A2	Independent user	A2	Independent user	A1	Independent user

(*) [Common European Framework of Reference \(CEF\) level](#)

Additional information

- Other appointments:
 - Editorial Boards J. Comp. Assist. Surgery, J. Engineering in Medicine, J. Biomedical Engineering, J. Comp. Assist. Radiology & Surgery, J. Personalized Medicine
 - Reviewer of the German Research Foundation (DFG), the Israel Science Foundation (ISF), the Austrian Science Fund (FWF), Natural Sciences and Engineering Research Council of Canada (NSERC), Dutch Research Council (NWO) and other international institutions
 - Reviewer for many international journals and conferences
 - Founding member, past president and (since June 2019) secretary general of the International Society for Computer Assisted Orthopaedic Surgery (ISCAOS), Member of the German Society for Biomedical Engineering (VDE-DGBMT), the International Society for Biomechanics (ISB), Founding Member ORNET.ORG
 - Founding Member and Chairman of Center for Usability and Risk Engineering of Medical Devices (CUREMED.EU)
 - Award Committee member of the "DGBMT-Preis der Stiftung-Familie-Klee" of the German Society for Biomedical Engineering (VDE-DGBMT)
 - Scientific Advisory Board Member, Conformis Inc., Billerica, MA, USA
 - Advisory Board Member, SurgiTAIX AG, Aachen
 - Scientific Advisory Board Member Federal Institute for Drugs and Medical Devices (Bundesinstitut für Arzneimittel und Medizinprodukte, BfArM), Bonn, Germany

- Awards:
 - Holste Award for interdisciplinary research 2004
 - Technology Transfer Award of the State of North-Rhine Westfalia 2004
 - Medical Engineering Innovation Award 2007 of the German Ministry for Education and Research (BMBF)
 - Inventor Award of the State of North-Rhine Westfalia 2007
 - Medical Engineering Innovation Award 2008 of the German Ministry for Education and Research (BMBF)
 - Medical Engineering Innovation Award 2009 of the German Ministry for Education and Research (BMBF)
 - M.E. Müller Award for Excellence in Computer Assisted Surgery 2012
 - multiple paper and poster awards as coauthor of international conference contributions

- Teaching:
 - Lecturer in Medical Engineering of the Faculty of Mechanical Engineering of the RWTH Aachen University
 - Lecturer in Biomedical Engineering in the Master-Program of the Medical Faculty of the RWTH Aachen University
 - Coordinator of the Master Program on "Allgemeiner Maschinenbau" (General Mechanical Engineering) of the Faculty of Mechanical Engineering
 - Lecturer in Medical Engineering in several interdisciplinary courses of different faculties of the RWTH Aachen University
 - currently about 20 PhD students, and more than 200 undergraduate students

- Research topics:
 - Patientspecific musculo-skeletal Biomechanics and Biomechanics of NPH
 - Surgical planning and simulation
 - Patient specific instruments (PSI) and implants,
 - Surgical navigation and modular cooperative surgical robotics
 - Mechatronic instrumentation, systems and automation
 - Ultrasound and Shockwaves in Medicine
 - Ergonomics and safety in medicine, usability engineering in medicine

- Publications:
 - Author and Co-author of > 500 publications, > 20 patent applications
 - ORCID: <https://orcid.org/0000-0003-4395-3197>