Dr. Holger Hessdorfer

	Personal information
E-Mail: Xing:	holger@hessdorfer.com
	Work Experience
03/2022–now	Part-time Lecturer, Hochschule Karlsruhe, Electrical Engineering and Information Technology.Part-time Lecturer for Radiation Sensors and Detektors in the Master's Program of Sensor Systems Technology.
08/2021–now	Development Engineer and Project Manager for Metrology , <i>Pfaudler GmbH</i> , Glass-Lined Instrumentation. Responsibility for maintenance and future-oriented development of the portfolio in the area of analytical and physical measurement technology, with a focus on ph measurement. Evaluation of technology and market trends, e.g. in the context of digitalization and Industry 4.0. Initiation and implementation of development and innovation projects, e.g. for applications in the food sector. Identification and implementation of cost optimization for existing products. Support, training and technical consulting of the intermetional subsidiaries in the product correct
02/2017-02/2021	metrology. Technical consuming of the international subsidiaries in the product segment metrology. Technical evaluation of customer requests and their feasibility based on the existing product platform. Cooperation with universities and research institutes in innovation projects. Ph.D. Student , <i>Karlsruhe Institute of Technology</i> , Institute for Photon Science and Synchrotron Radiation. Thesis: A novel 2D in-line Bragg magnifier imaging system for dose-efficient X-ray imaging at
	 Finesis. A novel 2D in-line Bragg magnifier imaging system for dose-enclent X-ray imaging at synchrotrons Focus: X-ray crystal optics, X-ray diffraction, X-ray microscopy, photon counting detectors, mechatronics, measurement and control technology, high precision positioning systems, instrumentation engineering
05/2014-01/2017	Development Engineer , Karlsruhe Institute of Technology, Institute for Photon Science and Synchrotron Badiation ANKA Commercial Services
	Responsible for the development and optimization of measuring stations to increase the efficiency of measurement and testing services. Development and realization of concepts using state-of-the-art sensor technology, robotics and precision mechanics to increase the sample throughput from the design phase through procurement to commissioning.
01/2013-01/2014	Development Engineer for Micro Technology and Sensors , Sensolute GmbH. Development of electronic components (layout/routing/setup) for signal evaluation and com- missioning, Programming (C) of microcontrollers for the evaluation and control of sensor systems, Project management in the implementation of new development projects and sensor variants including documentation, data sheets and application notes, Technical customer support and support of international customers in the implementation of desired functions
	Education
02/2017 - 02/2021	Dr. rer. nat. , Albert-Ludwigs-University of Freiburg, Freiburg Material Research Center. Thesis: A novel 2D in-line Bragg magnifier imaging system for dose-efficient X-ray imaging at synchrotrons, Grade: magna cum laude, 1.9
10/2010-06/2012	M.Eng. Sensor System Technology, University of Applied Sciences. Majors: Micro System Technology, Optical Sensors, Bio- and Chemo Sensors, Automation Technology, Solid State Physics, Grade 2.0
10/2004-08/2010	DiplIng.(FH) Sensor System Technology , University of Applied Sciences. Majors: Hardware and Software Design, Control Technology, Sensor Signal Processing, Grade
9/1999-08/2003	^{2.2} University Entrance Diploma (Abitur), Technisches Gymnasium, Balthasar Neumann Schule Bruchsal.