

Johannes Störkle

Tübingerstraße 97
70178 Stuttgart, Germany
☎ +49 152 5582 0992

✉ johannes.stoerkle@itm.uni-stuttgart.de
📄 www.johannes.stoerkle.info
www.itm.uni-stuttgart.de/staff/Stoerkle



Education

- 2013–2018 **Research Associate / Doctoral Student (PhD)**, *Institute of Engineering and Computational Mechanics*, University of Stuttgart, Germany.
Dynamical-optical Simulation and Optimization of High Performance Optics.
- 2012–2013 **Diploma Thesis**, *Institute for Dynamic Systems and Control*, ETH Zurich, Switzerland, Prof. Schiehlen, Prof. Guzzella, M. Alberding.
Lateral Dynamics of Multi-axle Vehicles - Control Strategies for a Steered Rearmost Axle of a Semi-Trailer.
- 2006–2013 **Mechanical Engineering (Diploma)**, *University of Stuttgart*, Germany.
Specializing in Technical Dynamics and Thermal Fluid Machinery, and in addition, courses and student research project in Automatic Control Engineering,
"Application of the dynamic stress analysis for the compensation of an aberration at optical systems", Student Research Thesis, Institute of Engineering and Computational Mechanics, 2011.
"Modelling and control of the hydraulic drive of a fire-rescue turntable ladder", Student Research Thesis, Institute of Engineering and Computational Mechanics, 2012.
- 2003–2006 **A Level**, *Technical Academic High School*, Waldshut, Germany.
General qualification for university entrance with additive technical subjects and a seminar thesis.

Publications & Conferences

- 2016 **SPIE Astronomical Telescopes + Instrumentation**.
Störkle, J.; Eberhard, P.: Using integrated multi-body systems for dynamical-optical simulations. Proc. of the AS16, Bellingham: SPIE Digital Library, 2016.
- 2015 **SPIE: Integrated Modeling of Complex Optomechanical Systems II**.
Störkle, J.; Eberhard, P.: Strategies for the dynamical-optical simulation of high-performance optics. Proc. of the IMCOS, Bellingham: SPIE Digital Library, 2015.
- 2015 **15th EUSPEN Conference**.
Störkle, J.; Wengert, N.; Eberhard, P.: Simulation and Optimization of the Dynamical-Optical Behavior of Mirror Systems, In Leach, R. (Ed.): Proc. of the 15th International Conference of the EUSPEN, S. 209-210. Delft: Sieca Repro, 2015.
- 2014 **Engineering-Optimization IV Conference**.
Störkle, J.; Wengert, N.; Eberhard, P.: Optimization and Investigation of the Dynamical-optical Behavior of Mirror Systems, Proc. of the Engineering Optimization, Vol. 4, pp. 231-236, 2014

Industrial Experience

- 2010–2011 **Mandatory Internship**, *Alstom*, Baden, Switzerland.
Dept. Gasturbine research & development, structure dynamics.
- Improvement of fracture mechanic approaches for the estimation of LCF-crack propagation;
 - Programming of a software tool for fracture mechanic assessments using FEM-results.

- 2006–2008 **Basic Mandatory Internship**, *ABB Turbo Systems*, Baden, Switzerland.
 Dept. Production of turbocharger compressor wheels
 ○ Activities in the production process of radial compressor wheels and team presentations.
- Working as a Student & Internships**
- 2011–2013 **Working Student / Software developer**, *CCI von Kahlden*, Stuttgart, Germany.
 Development of a software package for the monitoring of dust-free rooms via sensors in VB.net.
- 2010–2011 **Working Student**, *Bosch-Mahle Turbosystems*, Stuttgart, Germany.
 Dept. Turbocharger Development, Simulation of Structure-Dynamics / Experiments
 ○ Comparisons of experimental and simulation results, programming of a material-database-tool.
- 2008–2009 **Intern and Working Student**, *Alstom*, Birr, Switzerland.
 Dept. Production Planning of gas- and steam-turbines
 ○ Programming of a work planning tool for employee activities & technical calculations;
- 2008 & 2011 **Working Student**, *Nuclear power plant KKL*, Leibstadt, Switzerland.
 Dept. Nuclear reactor maintenance, Drywell
 ○ Assistent/Coordinator of the revision works in the drywell zone.
- Research assistant & other Activities**
- 2012 **Research assistant**, *Institute for System Dynamics*, Projekt SmartShell.
- 2007–2008 **Tutor**, *Institute of Engineering and Computational Mechanics*, Seminar exercises (TM).
- 2005–2006 **Seminarkurs**, *Technical High School*, Winner of the Youth Research Competition.

Scholarship

- 2016 **SPIE Travel Scholarship**.
 Travel bursary for the SPIE Astronomical Telescopes + Instrumentation Conference.
- 2015 **Heidenhain Scholarship**.
 Free registration for the EUSPEN's 15th International Conference in addition to a travel bursary.
- 2012–2013 **Thomas Gressmann Foundation**.
 Foundation for the research stay and writing of the diploma thesis at the ETH Zurich.

Computer skills

Engineering	MATLAB & SIMULINK, ANSYS, ABAQUS, AUTOCAD, SIMPACK
Programming	VB.net , VBA, C / C# , Fortran, MS-DOS, SQL, Linux-skills
Publishing	MS-Office, L ^A T _E X, WordPress, Joomla, html, php
Design	Inkscape, Photoshop, Lightroom, InDesign, Illustrator, Blender

Languages & Activities

- German (Mother tongue), English (Fluent), French (Basics)
- Rock'n'Roll dance club, fitness studio, photography, motorbike.
- Tuba & Trumpet in a brassband, a concert band and a brass quintet.