

## CURRICULUM VITAE

### PERSONAL INFORMATION

Name  
E-mail  
Nationality  
Birth of date

RODRIGO LIMA STOETERAU  
[rlstoeterau@googlemail.com](mailto:rlstoeterau@googlemail.com) rodrigo.stoeterau@usp.br  
Brazilian  
22.03.1965

### WORK EXPERIENCE

Dates (from – to)  
Name and address of employer  
Type of business or sector  
Occupation or position held  
Main activities and responsibilities

**12.2008 - actually**  
Universidade de São Paulo. Av. Prof. Mello Moraes, N. 2231, Butantã, São Paulo, SP. CEP 05508-030  
Dept. of Mechatronic Engineering and Mechanical Systems  
Professor  
Professor of Machine Elements Design, Manufacturing Process emphasis in machining process, Computer Aided Process Planning, Machine Tool Design, MEMS micro manufacturing and Micro-tribology. Orientation of graduation, master and doctoral candidates  
Conduct research on the field of machining process, precision and ultra-precision machining process, machine-tool and precision systems design and construction and micro-tribology.

Dates (from – to)  
Name and address of employer  
Type of business or sector  
Occupation or position held  
Main activities and responsibilities

12.2000 – 11.2008  
*Universidade Federal de Santa Catarina (UFSC), Florianópolis – SC, Brazil*  
Mechanical Engineering Department – Laboratory of Precision Engineering  
Researcher / Assistant Professor  
- Professor of machining process, machine-tools design and tribology  
- Research in the field of precision and ultra-precision machining process, machine-tool and precision systems design and construction  
- Development of a Technology Transference Model between University and Small and Medium Industry at the Laboratory of Product Development

### EDUCATION AND TRAINING

Dates  
Organization providing education and training  
Principal subjects  
Dates  
Organization providing education and training  
Principal subjects  
Dates  
Organization providing education and training  
Principal subjects

2014 – 2015  
*Fraunhofer Institut für Produktionstechnologie – FhG IPT Aachen, RWTH - Germany*  
Pos-Doctoral on tribology of structured Laser surfaces for application on cutting tool  
2005 – 2006  
*Institut für Werkzeug Maschinen und Fertigungstechnik – IWF of Technische Universität Braunschweig - Germany*  
Pos-Doc on micromachining and precision machining process.  
2000  
*Technische Universität Ilmenau – Fakultät für Maschinenbau - Germany*  
Research on precision machine elements and specification of design tolerances and its correlation with manufacturing process

Dates  
Organization providing education and training  
Title of qualification awarded  
Principal subjects

1995 - 1999  
*Universidade Federal de Santa Catarina at Florianópolis – SC, Brazil*  
Mechanical Engineering Department  
Doctor Engineering – Dr. Eng.  
Thesis title “*Desenvolvimento de uma Máquina-Ferramenta CNC para usinagem de Ultraprecisão com Ferramentas de Diamante de Gume Único*” -  
Development of an Ultraprecision CNC Machine Tool for Single Point Diamond Tool

Dates  
Organization providing education and training  
Title of qualification awarded

1989 - 1991  
*Universidade Federal de Santa Catarina at Florianópolis – SC, Brazil*  
Mechanical Engineering Department  
Master Degree in Mechanical Engineering – *M. Eng. Mec.*

Dates  
Organization providing education and training  
Title of qualification awarded

1983 - 1988  
*Universidade Federal de Santa Catarina at Florianópolis – SC, Brazil*  
Mechanical Engineering Department  
Mechanical Engineering

## TECNICAL SKILLS AND COMPETENCES

### Fellowships

- Brazilian National Council for Technological and Cientific Research (CNPq) during the Master Degree period (1989-91)
- Brazilian National Council for Technological and Cientific Research (CNPq) during the Doctoral period (1995 -99)
- Brazilian National Council for Technological and Cientific Research (CNPq) for reaserch on High Speed Cutting Machine Tool dynamics (2000-03)
- *Braunschweigischer Kuturbesit Stiffung* pos-doctoral scholarship (2005-2006).
- CAPES pos-doctoral scholarship (06.2014-01.2015).

### Memberships in scientific associations

- Member of the European Society for Precision Engineering - EUSPEN
- Regular Member of the Engineering Council, Santa Catarina and São Paulo Brench.

## ADDITIONAL INFORMATION

- Doctoral Degree Orientations: 3, - Master Degree Orientation: 9, - Graduation works: 25
- 52 other technical publication on engineering congress, technical magazines and journals in Brazil and abroad
- Member of 56 master degree and doctoral Thesis Evaluation Committee

### Patents

*Title: Dispositivo para Teste da Capacidade de Reprodução de Detalhes de Materiais Odontológicos* (Device for Test the Details Reproduction Capacity of Odontological Material). Patent number: MU 00 2608 – INPI (Brazil Institute for Industrial Patent)

### Research projects

**2016-** – *Brazilian Council for Research – CNPq, project: Miniaturized Cardio-Pumps. Coordinator: Prof. Dr. Eduardo Bock. Project activities: High Performance micro Bearings designs and bearing failure analysis.*

**2012-** *Research Team members on the project: Wear analysys on hot injection molds and steel mills cylinders, joint project with Villares Metals and Gerdal Steel, supported by FUNTEC-BNDES.*

**2011-** *Research Team members on the cluster project: Tribological aspects of automotive FLEX fuel engines (methanol-gasoline), on the field of surface characterization. This project involves the GM, VW, Fiat, PSA, Renault, Malher and other auto parts makers.*

**2012-2014** - *BRAGECRIM (Brazilian-Germany Collaborative Research Initiative on Advanced Manufacturing) a CAPES-DFG initiative, with IPT - Aachen of RWTH-Aachen under co-coordination (Brazilian side) of Prof. Dr. Ing. Rodrigo L. Stoeterau, Prf. Dr.-Ing. F. Klocke Project Title: Surface conditioning and texturing of cutting tools for the optimization of machining processe*

**2009-2014** – *BRAGECRIM (Brazilian-Germany Collaborative Research Initiative on Advanced Manufacturing) aCAPES-DFG initiative, with IWF of TU-Braunschweig, under coordination (Brazilian side) of Prof. Dr. Ing. Rodrigo L. Stoeterau, Dr.-Ing. Hans-Wener Hoffmeister (german side). Project Title: Cutting Behaviour and Process Monitoring During Grinding of Ceramics Using CVD-Tools.*

**2012-2014** *Coordinator of the project: Development of a hydrodynamic bearing test bed, for Thyssen Krupp Auto Parts Brazil.*

**2010-2012** – *Brazilian Council for Research – CNPq, coordinator of the project: machining of complex geometry miniaturized propellers models for hydrodynamic experiments.*

**2010-2013** – *Coordinator of the project: Development of an inspection gas pipeline robot self-adjustable PIG Type, for the Brazilian Oil Company Petrobras.*

**Prof. Dr. Eng. Rodrigo Lima Stoeterau**