Slawomir Kedziora

Associate Professor Dr. Eng.
Doctoral School Program Coordinator
Deputy Director of International Master's Program

CONTACT

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CORE COMPETENCIES

- Research
- New product development
- Mechanical engineering
- Numerical method in mechanics
- 3D CAD
- Design and validation
- Design exploration
- Additive manufacturing technology
- Program management
- Teaching

EDUCATION

Lodz University of Technology:

- 2000, PhD. in Applied Mechanics
- 1995, Certified Teacher
- 1995, M.Sc., Mechanical Engineer

WORK EXPERIENCE

2014 - present

University of Luxembourg
Associate Professor of Engineering Sciences
Doctoral School Program Coordinator
Deputy Director of the International Master's Program

- Responsible for teaching on bachelor master and doctoral levels, organization of courses and teaching activities
- Supervision projects of bachelor and master students
- Supervision of PhD students' projects
- Organize and track of international doctoral school program focusing on meeting high standards education and research
- Industrial projects and funding acquisition
- Cooperation in terms of teaching and research project between universities in the Grand Region (Germany, Luxembourg, France, and Belgium)
- Research in the area of design for additive manufacturing and numerical methods in mechanics
- Management a research lab of design for additive manufacturing.

2013-2014

DNV GL, Technical Centre Gdynia, Poland
Principal Engineers

- Assisting with setting up the project milestones and activities
- Providing daily support to customer project teams, assist with problem-solving
- Sharing the knowledge and experience with other members of Sesam software (FEA) assistance team
- Testing new software releases
- Training for customers for new software
- Managing and processing customer orders
- Walking customers through solutions

SKILLS

- 3D CAD
- Drafting and (GD&T)
- Numerical methods in mechanics
- Reliability
- Writing technical reports
- Computer programming
- Six Sigma methodology

- Communication
- Leadership
- Teamwork
- Analytical thinking
- Detail-oriented
- Decision making
- Critical thinking

- Polish, mother language
- English, proficient speaker, C1
- German, independent speaker, B 2.2

- B1 driving license

INTERESTS

- Hiking
- Travelling
- German language
- Programming technology
- Innovation and new technology

2008-2013

EATON Corporation, Engineering Center in Tczew, Poland
CoE Engineering Team Leader
Engineering Specialist - Stress Engineer

- Linear and nonlinear finite element analyses of truck transmission components: static and dynamic
- Fatigue calculations of transmission components
- Development of FEA standards for transmission components
- Development of new test durability procedures
- Leading a team of engineers.

2002-2008

Delphi, Customer Technology Center Luxembourg
Senior Experimental Engineer

- Finite element analyses and fatigue calculations of heat exchangers
- Dynamic (FEA) analyses of complex automotive parts
- Developing durability validation tests based on customer requirements
- Material expertise of aluminium alloys of automotive
- A/C including CO2 system
- Training of finite element method for designers
- Management of outsourcing of FEA projects
- Leading the FEA engineering group.

2000-2002

Delphi Automotive Systems, Harrison Thermal System, Ostrów Wielkopolski, Poland
Reliability Engineer

- Finite element analyses for heat exchanger components
- Developing new validation tests based on customer requirements
- Reliability analyses.

1994-2000

Lodz University of Technology
Assistant Lecturer, Assistant Professor

- Teaching in areas strength of materials, mechanics, finite element method, and theory of stability
- Research regarding buckling stability of thin-wall structures.

TEACHING/SUPERVISING EXPERIENCE

Associate Professor of Engineering Sciences, University of Luxembourg (2014-present)

- Supervising PhD students, thesis supervision, and thesis jury
- Direct supervising of PhD students:

Name of PhD student	Thesis title	Start date	Completion date	Status
Thanh Binh Cao	Optimization assisted designing mechanical elements for direct metal laser sintering	2016	2019	completed
Mats Bremer	Korrelative Messtechnik im mikroskopischen Bereich unter Weltraumbedingungen	2018		ongoing
Thierry Decker	Application of functionally graded lattice structures suitable for additive manufacturing in mechanical parts	2020		ongoing

- Supervising graduate and undergraduate dissertations
- Student assessment
- The teaching of machine design lecture and projects for graduated and undergraduate programs
- Assisting with program, development, and student assessment
- Management of PhD program.

Assistant Professor and Assistant Lecturer, Lodz University of Technology (1994-2000)

- Supervising graduate and undergraduate dissertations
- The teaching of the strength of materials, mechanics, and finite element method for graduate and undergraduate students
- Student assessment.

RESEARCH SKILLS

- Searching for information
- Attention to details
- Project management
- Problem-solving
- Communication