

Curriculum Vitae

Doc. Ing. Bc. **Petr LEPSÍK**, Ph.D., IEn.

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CURRENT ACTIVITIES

Technical University of Liberec, Faculty of Mechanical Engineering:

- **Vice-Dean for Doctoral Studies** and Development
- **Associate Professor** – Department of Machine Parts and Mechanism
- **Member of the Scientific Council of the Faculty of Mechanical Engineering**
- **Guarantor of the Doctoral Study Programme** Manufacturing Systems and Processes (accreditation 2019-2024)
- Chairman of the Council of the Doctoral Study Programme Manufacturing Systems and Processes
- **Guarantor of the Master's Study Programme** Innovation and Industrial Engineering (accreditation 2020-2030)

Council for Research, Development and Innovation (RVVI) of the Czech Republic Government Office:

- Member of the National Innovation Platform (NIP III - Manufacture of transport equipment)
- Evaluator of quality results according to Methodology 17+ (mechanical, material engineering)

EXPERTISE

- **Mechanical Engineering** – Machine Design, CAD, FEM, light-weight carbon constructions, composite materials, electrospinning, 3D digitalization, Reverse Engineering
- **Innovation Engineering** – Theory of Inventive Problem Solving (TRIZ)
- **Industrial Engineering** – Six Sigma, Lean Production

WORK EXPERIENCE

Technical University of Liberec, Faculty of Mechanical Engineering:

2019 – **Vice-Dean for Doctoral Studies** and Development
2018 – **Associate Professor** – Department of Machine Parts and Mechanisms
2011 – 2018 Assistant Professor – Department of Machine Parts and Mechanisms
2009 – 2010 Researcher – Department of Machine Parts and Mechanisms

EDUCATION

2018 Doc. Habilitation – Machine Design, Technical University of Liberec, Faculty of Mechanical Engineering
2009 – 2012 Bc. Bachelor's Study Programme – Education, Technical University of Liberec, Faculty of Science-Humanities and Education
2009 – 2010 IEn. Industrial Engineer – Academy of Productivity and Innovation
2006 – 2010 Ph.D. Doctoral's Study Programme – Manufacturing Systems and Processes, Technical University of Liberec, Faculty of Mechanical Engineering
2001 – 2006 Ing. Master's Study Programme – Manufacturing Systems, Technical University of Liberec, Faculty of Mechanical Engineering

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FOREIGN EXPERIENCE

Post-doc Research Internship:

09-10/2014 USA, Boston – **Massachusetts Institute of Technology** (MIT)

Visiting Professor:

07/2017 Portugal – University of Minho

03/2016 Lithuania – Vilnius College of Technologies and Design

05/2015 Turkey – Çukurova University

03/2015 Lithuania – Vilnius College of Technologies and Design

04/2014 Spain – Polytechnic University of Valencia

10/2012 Portugal – University of Minho

03/2012 Finland – Aalto University

PhD Study Internship:

09/2007 – 01/2008 Sweden – Kristianstad University

PROJECTS

Project Manager:

2019 – Research and development of a new universal drip-free quick coupling, MPO OP PIK, CZ.01.1.02/0.0/0.0/17_176/0015557 (Co-investigator)

2016 – 2018 Innovation of technical system constructions using composite materials

2012 – 2015 CREATex - excellence in methods of systematic creativity at the macro- and micro-level (CZ.1.07/2.2.00/28.0321)

2011 – 2012 INInet – collaborative platform for innovation engineering (CZ.1.07/2.4.00/07.0031)

Researcher:

2019 – Hybrid materials for hierarchical structures, CZ.02.1.01/0.0/0.0/16_019/0000843

2019 – Research and development of methods for improving production processes

2016 – 2018 Innovation of products and equipment in engineering practice

2013 – 2015 Innovation of engineering products and equipment

2011 – 2014 Technology for the production of inorganic nanofibers FR-TI3 / 845, MIT 17930

PUBLICATIONS

Author or co-author of 2 monographs, 5 university scripts in the field of innovation engineering and about 90 scientific papers published in journals and conference proceedings. 31 of the papers are included in database Scopus and 20 papers in database Web of Science. Editor of 4 conference proceedings, one of them has been published by Springer and included in the database Scopus and Web of Science.