# CURRICULUM VITAE


## Assoc. Prof. M.Sc. Pavel Novotný, Ph.D.

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## Working Experiences

### 2010 – till now, Associate Professor

Lectures in master's and bachelor's study programmes. Leading of research and educational projects. Research and development into NVH and tribology of turbocharging & powertrains. Brno University of Technology, Technická 2, 616 69, Brno, Czech Republic.

### 2005 – 2009, Assistant Professor

Lectures in master's and bachelor's study programmes. Participation in research and educational projects into NVH and tribology of powertrains. Brno University of Technology, Technická 2, 616 69, Brno, Czech Republic.

### 2001 – 2005, University Lecturer

Lectures in master's and bachelor's study programmes. Research and development into penetration effects of projectiles. University of Defence, Kounicova 156/65, 662 10, Brno, Czech Republic.

## Education and Training

### 2009 – Associate Professor – docent

Virtual Engine – A Tool for Powertrain Development.
Brno University of Technology, Technická 2896/2, 616 69, Brno, Czech Republic.

### 2005 – Ph.D.

Simulation of Cranktrain Dynamics – Central Module of Virtual Engine.
Brno University of Technology, Technická 2896/2, 616 69, Brno, Czech Republic.

### 2001 – M.Sc.

DesignSpace Usability Assessment to Calculate Gearbox Deformations.
Brno University of Technology, Technická 2896/2, 616 69, Brno, Czech Republic.

## Professional Internships

2012 – FEV GmbH, Aachen, Germany (1 months).
2011 – RMIT, Melbourne, Australia (2 weeks).
2008 – FEV GmbH, Aachen, Germany (1 month).
2007 – FEV GmbH, Aachen, Germany (2 months).
2006 – RWTH Aachen, Faculty of Mechanical Engineering, Institute of Automotive Engineering, Germany (3 months).
2003 – Otto-von-Guericke University Magdeburg, Faculty of Mechanical Engineering, Institute of Measurement Technique and Reciprocating Machines (4 months).

## Publications

Author of more than 50 articles in peer-reviewed journals and 80 papers at international conferences. Publications have been cited more than 100 times according to WOS and SCOPUS databases.

## Participation in R&D Projects

Research team leader or member of 20 cooperative R&D projects and more than 50 contractual R&D projects provided by industry partners.

## Abilities, Knowledge and Skills

System approach, presentation and communication skills. Managing R&D projects in the field of powertrain and turbocharging R&D. Structural mechanics, numerical methods, tribology, NVH, turbocharging, FEM, MBS, CFD. Software knowledge: Matlab, Fortran, ANSYS Mechanical, LS-DYNA, FEMFAT, MSC.ADAMS, MSC.ACTRAN, ICEM CFD, FEV Virtual Engine, ANSYS CFX, CREO.

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