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Degrees:

- Doctor of Science / DSc (Hungarian Academy of Sciences) Mechanical Engineering 2013
- Dr. habil (University of Miskolc) 2006
- Candidate of Science / CSc – PhD (Hungarian Academy of Sciences) Mathematics 1994

Employment record:

2014-	professor, head of institute, UM, Institute of Machine and Product Design
2013-2014	assoc. prof., head of department, UM, Department of Machine and Product Design
1996-2003	associate professor, UM, Institute of Mathematics
1986-1996	assistant lecturer, UM, Institute of Mathematics
1984-1986	lecturer, UM, Institute of Mathematics
1982-1984	scholarship scholar, UM, Institute of Mathematics

Current appointments:

- Vice dean for research and international affairs Faculty of Mechanical Engineering and Informatics, 2009-2013 and since 2017
- Faculty Assembly member of Faculty of Mechanical Engineering and Informatics, since 2008-
- Secretary and voting member of Committee on Mechanical Structures of VI. Section of Engineering Sciences of Hungarian Academy of Sciences
- Non-academician voting member of the VI. Section of Engineering Sciences of Hungarian Academy of Sciences and of the General Assembly of Hungarian Academy of Sciences
- Head of István Sáhyi Doctoral School of Mechanical Engineering Sciences at University of Miskolc
- Representative of the University of Miskolc at the Hungarian Automotive Innovation Consortium, since 2016
- Industry 4.0 National Technology Platform member of Strategic Planning Working Group, since 2016
- Chair of Mechanical and Informatics Professional Committee of Regional Committee in Miskolc of Hungarian Academy of Sciences, since 2017
- Chair of Scientific Council of Students at University of Miskolc, since 2017
- Member of the Habilitation Committee of Mechanical Engineering Sciences, Faculty of Mechanical Engineering and Informatics, since 2017

Research interest:

Fluid flow, tribology, growth models, partial differential equations

Publications:



<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10009231>

Current projects:

- Smart HEI-Business collaboration for skills and competitiveness (HEIBus), ERASMUS+ Knowledge Alliances, 2017.01.01-2019.12.31. subproject leader
- Up-to-date materials and intelligent technologies cooperation between higher education and industry, GINOP R&D, 2017.01.01-2020.12.31. participant
- Development of a new commercial vehicle powertrain with higher efficiency, higher performance, lower noise and extended lifetime GINOP R&D, 2016.07.01-2020.06.30. project leader
- Development of a photopolymer system capable of recording holographic 3D images, GINOP R&D, 2017.06.01-2021.05.31. project leader
- Bilateral Hungarian French Research Project 2018-2.1.13-TÉT-FR-2018-00014 Analytical and numerical investigation of graphene layers on nanoparticles, Université de Picardie Jules Verne, Amiens, France, 2019-2022

- Scal Up Academy (SUA) EIT HEI Initiative Innovation Capacity Building for Higher Education, 2021.07.01-2023.06.30 Consortium partner leader
- OTKA K-18 129257 New findings on the growth mechanism of thin films and some tribological characteristics (2018-2022) project leader

Completed projects: ...

- Auto-organization of nanostructures on surfaces, French-Hungarian Bilateral Project, 2015.05.01-2016.12.31.
- Wirkung der Oberflächenbehandlung auf die tribologischen Eigenschaften, Stiftung Aktion Österreich-Ungarn, 2015.05.01. - 2016.05.31.
- Reshaped partnerships for competitiveness and innovation potential in mechanical engineering (REPCI), ERASMUS LLP, 2013. 10.01-2015.09.30.
- Bilateral Hungarian-Serbian Research project TÉT_16-1-2016-0164 Tribological modeling and experimental testing for the development of advanced nanocomposite materials, University of Belgrad, 2017-2019
- E-mobility Miskolc: Development of cooling water circulation pump and motor cooling fan in view of higher quality requirements for electric vehicles GINOP R&D, 2017.07.01-2021.06.30. subproject leader
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