

PERSONAL INFORMATION	Tudor DEACONESCU				
	₩ <u>tdeacon@unitb</u>	ov.ro			
POSITION IOSUD UTBV	Transilvania University of Brașov PhD coordinator – Field: Industrial Engineering Since : 2008				
EXPERTISE FIELD AND RESEARCH INTEREST AREAS	Pneumatic and hydraulic drives; Pneumatic muscles; Soft robotics; Medical rehabilitation equipment				
WORK EXPERIENCE					
2000 – present	Tenured university professor Transilvania University of Brașov, Bd. Eroilor nr. 29, 500036 Brașov, <u>www.unitbv.ro</u> • Teaching and research activity				
1997 – 2000	Associate university professor Transilvania University of Brașov, Bd. Eroilor nr. 29, 500036 Brașov, <u>www.unitbv.ro</u> • Teaching and research activity				
1993 – 1997	University lecturer Transilvania University of Brașov, Bd. Eroilor nr. 29, 500036 Brașov, <u>www.unitbv.ro</u> • Teaching and research activity				
1989 – 1993	University teaching assistant Transilvania University of BraşovBd. Eroilor nr. 29, 500036 Braşov, <u>www.unitbv.ro</u> • Teaching and research activity				
1988 – 1989	Engineer – design of industrial machinery Întreprinderea de Autocamioane Brașov (Motor truck company of Brașov)				
1985 - 1988	Engineer – design of industrial machinery Întreprinderea de Maşini Agregat şi Subansambluri Auto Sf. Gheorghe (Aggregate machines and automotive subassemblies company of Sf. Gheorghe)				
EDUCATION AND TRAINING					
1992 – 1997 1997	PhD research in Engineering Award of PhD degree				
1980 - 1985	Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov • Hydraulic drives Engineer Transilvania University of Braşov, Bd. Eroilor nr. 29, 500036 Braşov • Machine Tools				
PERSONAL SKILLS					
Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING SPEAKING WRITING				
	Listening	Reading	Conversation	Listening	Reading
En allah	B1	B1	B1	B1	B1
English					



Curriculum Vitae

Organisational / managerial skills	 Vice-Dean of the Faculty of Technological Engineering and Industrial Management 2004 – 2012 Director of the Festo National Training Centre for Fluidic Drives and Automation within Transilvania University of Braşov (2006 – present) 	
Digital skills	 Proficient in the utilisation of the entire Microsoft Office™ package , Visual Basic.NET, PTC Mathcad 	
ADDITIONAL INFORMATION		
Projects	 Development of new Llght Mechatronic SYStems based on dynamics and control optimisation (LIMESYS). Contract MTKD-CT-2004-014249, FP6, Marie Curie Actions. Position: project director. Research concerning the performance of pneumatic muscles used for driving the grippers of non- anthropomorphic robots. CNCSIS contract, type A no. 4GR/28.05.2007, code 1054/2007, topic 8. Position: contract director. Study of a non-anthropomorphic pneumatic muscle actuated gripper. CNCSIS contract, type: Human Resources (MC), PN-II-RU-MC-2008-2, code: 9. Position: contract director. Pneumatic muscle actuated iso-kinetic equipment for the recovery of patients with post-traumatic affections of the bearing joints. CNCSIS contract, type IDEI, PN-II-ID-PCE-2008-2, ID_764 (2009- 2011). Position: contract director. Pneumatic drive and control of manufacturing systems. Contract with a third party (Festo SRL of Bucharest) no. 7790/2012. Position: contract director. Hydraulic drive and control of manufacturing systems. Contract with a third party (Hutchinson SRL of Cristian, Braşov) no. 5995/2013. Position: contract director. 	
Patents	Equipment for the mobilisation and rehabilitation of the inferior limb bearing joints by means of continuous passive motion (Invention patent no. 126094/2017).	
Memberships	Member of the Romanian Association of Tribology Member of the Romanian Association of Non-Conventional Technologies Member of the Association of Economic Engineers and Managers of Romania (AMIER) Member of the International Association of Engineers Hong Kong (IAENG) Senior member of the International Association of Computer Science and Information Technology Singapore (IACSIT) Senior Member of the Science and Engineering Institute (SCIEI) Senior Member of the International Economics Development Research Center (IEDRC) Member of the Hong Kong Society of Mechanical Engineering (HKSME)	
Awards	2005 Award for EU-funded FP6 Projects – Ministerul Educației și Cercetării din România	
Hindexes	ISI: 3, Scopus: 3, Google: 7	
ANNEXES		





ANNEX to CV

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

- 1. Applied Pneumatics. Published by Lux Libris, 2018, ISBN 978-973-131-409-9
- 2. Hydraulic Drives. Editura Universității Transilvania din Braşov (Transilvania University Publishing House), 2007, ISBN 978-973-598-121-1
- Intelligent Automation and Systems Engineering, Series: Lecture Notes in Electrical Engineering, Vol. 103; Chapter 3: Bio-Inspired Pneumatic Muscle Actuated Robotic System, published by Springer 2011, 430 p., Editors: Sio-Iong Ao, Harvard University, Cambridge, MA, USA, Burghard Rieger, Trier University, Mahyar Amouzegar, College of Engineering, California State University Pomona USA, pp. 27-40, ISBN 978-1-4614-0372-2
- 4. Deaconescu, T., Deaconescu A., Developing an Analytical Model and Computing Tool for Optimizing Lapping Operations of Flat Objects Made of Alloyed Steels. *Materials* 2020, 13 (6), 1343; Published by MDPI AG, https://doi.org/10.3390/ma13061343, ISSN 1996-1944, ISI Impact Factor: 2.972; SRI: 1,567 (Q2).
- 5. Deaconescu, A., Deaconescu T. Tribological Behavior of Hydraulic Cylinder Coaxial Sealing Systems Made from PTFE and PTFE Compounds. *Polymers* 2020, 12, 155. ISI Impact Factor: 3,164; SRI: 1,451 (Q1).
- Sârbu, F., Deaconescu, A., Deaconescu T. Adjustable compliance soft gripper system. *International Journal of Advanced Robotic Systems*, July-August 2019, pag 1-10, https://doi.org/10.1177/1729881419866580, ISSN 1729-8814, ISI Impact Factor: 1,223; SRI: 0,450
- Deaconescu, T., Deaconescu, A., Sârbu F. Contact mechanics and friction in PTFE coaxial sealing systems. International Journal of Mechanics and Materials in Design, December 2018, Volume 14, Issue 4, pp 635–646, ISSN 1569-1713, DOI https://doi.org/10.1007/s10999-017-9394-1, ISI Impact Factor: 3,143; SRI: 1,356 (Q1).
- Petre, I., Deaconescu, A., Sârbu, F., Deaconescu, T. Pneumatic Muscle Actuated Wrist Rehabilitation Equipment Based on the Fin Ray Principle. *Strojniški vestnik - Journal of Mechanical Engineering* 64(2018)6, 383-392 © 2018 Journal of Mechanical Engineering. ISSN: 0039-2480, DOI: http://dx.doi.org/10.5545/sv-jme.2017.5123 ISI Impact Factor: 1,182; SRI: 0,503.
- Deaconescu, T., Deaconescu, A. Pneumatic Muscle-Actuated Adjustable Compliant Gripper System for Assembly Operations, *Strojniški vestnik - Journal of Mechanical Engineering* 63(2017)4, 225-234 © 2017 Journal of Mechanical Engineering. ISSN: 0039-2480, DOI:10.5545/sv-jme.2016.4239 ISI Impact Factor: 0.914; SRI: 0,515.
- 10. Deaconescu, A., Deaconescu T. Low Friction Materials Used in the Construction of Hydraulic Sealing Systems in the Case of Small Velocities. *Journal of the Balkan Tribological Association*, Vol. 22, No 1, 454–463 (2016), ISSN 1310-4772, ISI Impact Factor: 0.737 ; SRI: 0,061.
- Deaconescu, A., Deaconescu T. Experimental and Statistical Parametric Optimisation of Surface Roughness and Machining Productivity by Lapping. *Transactions of FAMENA*, Vol.39, No.4/2015, pag. 65 – 78, ISSN 1333-1124 (Print), ISSN 1849-1391 (Online), ISI Impact Factor: 0.476; SRI = 0,187.
- 12. Deaconescu T., Deaconescu A. Film Thickness in Coaxial Sealing Systems of Hydraulic Cylinder Rods. *Journal of the Balkan Tribological Association*, Vol. 20, No 3, 447–462 (2014), ISSN 1310-4772, ISI Impact Factor: 0.321.
- Petre I., Deaconescu A., Rogozea L., Deaconescu T. Orthopaedic Rehabilitation Device Actuated with Pneumatic Muscles, *International Journal of Advanced Robotic Systems*, Volume 11, 2014 (105), Print ISSN 1729-8806, Online ISSN 1729-8814, DOI: 10.5772/58693, ISI Impact Factor: 0.497; SRI = 0,301.