

PERSONAL INFORMATION



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EXPERTISE FIELD AND RESEARCH INTEREST AREAS

Mechanical transmissions, parametric mechanical design, scan techniques and 3D reconstruction, motion tracking systems (tracking), project management, product development, finite element analysis, mechanisms and machine elements, robotics, mechatronics, virtual manufacturing, virtual testing and virtual design, reconstruction of cultural heritage.

WORK EXPERIENCE

from oct. 2017

Professor dr. eng., PhD Coordinator

Transilvania University from Braşov, 29 Eroilor Blvd, Braşov, <http://www.unitbv.ro>, Education, scientific research.

Holder of the courses of Machine Organs, Finite Element Analysis (Faculty of Mechanical Engineering, areas of studies Transport and Traffic Engineering, Automotive Engineering).

Education

oct. 2014 - 2017

Assoc. Professor dr. eng.

Transilvania University from Braşov, 29 Eroilor Blvd, Braşov, <http://www.unitbv.ro>, Education, scientific research.

- education - teacher within the Department of Automotive Engineering;
- research within the Virtual Reality and Robotics Laboratory ;
- research projects, projects funded from cohesion funds.

Education

febr. 2008 – sept. 2014

Lecturer dr. eng.

Transilvania University from Braşov, 29 Eroilor Blvd, Braşov, <http://www.unitbv.ro>, Education, scientific research.

- education - teacher within the Department of Automotive Engineering;
- research within the Virtual Reality and Robotics Laboratory ;
- research projects, projects funded from cohesion funds.

Education

jan. 2007 – jan. 2008

Cercetător postdoctoral

Transilvania University from Braşov, 29 Eroilor Blvd, Braşov, <http://www.unitbv.ro>, Education, scientific research.

- research within the Virtual Reality and Robotics Laboratory ;
- research projects, projects funded from cohesion funds.

Research

jan. 2005 – jan. 2007

Technical and Production Director, Quality Manager

SC SIRCUC BRAŞOV SA, Fdt. Hărmanului nr.15, Braşov, <http://www.sircucbrasov.ro>, Production; machine tools manufacturing and maintenance.

- coordination of the commercial, investment, design, technical and production and maintenance departments;
- collaboration with third parties on technical issues, production, authorizations;
- projects with non-reimbursable financing;
- coordinating the quality system implementation activity according to ISO 9001.

Industry

oct. 1999 – jul. 2004

Designer in Mechanical Engineering

SC CONCEPT 3T SRL Braşov, 94A, 13 Decembrie St. Brasov, RO-500164, <http://www.concept3t.ro>, Design engineering

- design internship at Bureau d 'etude, ATELCO sarl, France;
- design works in mechanical engineering - design of machine tools and devices, interior design objects, technological furniture, special devices, using AutoDesk support;
- launching in manufacturing, tracking the execution and receiving of parts, mechanical subassemblies and special machines.

Industry

dec. 1996 – jan. 2005 Strategy & Development Manager

SC FARTEC SA Braşov, 15 Stadionului St., Braşov, <http://www.fartectrading.ro>, Production of rubber technical articles: coordination of the company's strategy and development processes; putting into operation large investment objectives (factory for parapharmaceuticals - disposable syringes and infusion kits, manufacturing lines for rubber technical articles, industrial and civil buildings); developing, implementing and maintaining an efficient activity in the department; managing development projects; direct collaboration with the administrative and productive departments of the company; representation functions in relations with state institutions and local administration; coordinating the activity of evaluating the company for privatization.

Industry

EDUCATION AND TRAINING

dec. 2016 Habilitation thesis

Mechanical Engineering

apr. 2017 Course Certificate

Recovering the Humankind's Past and Saving the Universal Heritage,
Curs online Sapienza University of Rome / [coursera.org](https://www.coursera.org)

jan.-mar. 2013 Statement of Accomplishment

Image and video processing
Curs online Duke University / [coursera.org](https://www.coursera.org)

sept.-oct. 2012 Certificate of Completion ANSYS

Specialization in MEF / ANSYS
Postgraduate course in Finite Element Method, Transilvania University of Brasov

mar. – iul. 2008 Postgraduate course in psycho-pedagogy

Pedagogy, psychology, methodology
Transilvania University of Brasov / education, scientific research
Postgraduate course 320 hours

apr. – iul. 2007 Training of trainers in the automotive industry

Project management, quality management, HR
University of Technology of Compiegne / Renault France
Postgraduate course 300 hours

oct. 1997 – iul. 2004 PhD Diploma

PhD in the fundamental field of Engineering Sciences, field of Mechanical Engineering
Transilvania University of Brasov / education, scientific research
PhD / no frequency

1987 - 1992 Engineer Diploma

Mechanical Engineering, Machine Tools Section, Gh. Asachi University of Iasi, TCM
Faculty, Bachelor's Degree 5 years / day courses

1982 - 1986 Machinery and machinery mechanic / Bachelor's degree

Mathematics Physics
Vatra Dornei Industrial High School, High school / 4 year day courses

PERSONAL SKILLS

Mother tongue(s) Română

Other language(s)

UNDERSTANDING	SPEAKING	WRITING
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	Listening	Reading	Spoken interaction	Listening	
English	B2	B2	B2	B2	B2
Francais	B2	B2	B2	B2	B2
Italian	B2	A2	B2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Multicultural environment - since 1992 we have been active in a very wide range of fields, ranging from production activities to those of international research or cooperation.
- Teamwork - the positions we have occupied have required good communication skills, teamwork.
- Sports activities - skiing, cycling.
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Organisational / managerial skills

- From the position of Head of Development Department I led the work of a team of engineers and economists, I planned and managed the development budget of a large trading company.
- On the other hand, the position of Technical Director implies high competences regarding the management and organization of team work.
- In the last years I have led the research teams in the projects for which I am responsible partner.

Job-related skills

- Areas of competence in scientific research: Mechanical Engineering, Robotics and Mechatronics, Virtual Reality, Machine Parts, Finite Element Method.
- CEEX, PNCDI program evaluator.
- Publications: 6 technical books (single author or co-author) and approximately 39 articles published in magazines or presented at national or international profile conferences.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Replace with name of ICT-certificates

Hardware: configuration, assembly, troubleshooting, maintenance;
 Software: operating systems: DOS, Windows 9X, NT, 2000, XP, 7; Programming languages: Visual Basic, VRML; text editors, graphic editing, spreadsheets (Microsoft Office, Open Office); mechanical engineering design, finite element, dynamic analysis (AutoCAD, Autodesk Inventor, MSC NASTRAN, Maple, ADAMS, VisualNastran 4D Desktop, CATIA, SolidWorks), image processing (Slicer, 3D Doctor, Amira); Internet, email, networks

Other skills

- Participation in projects with community financing, during the last five years, as a long-term expert: POSDRU 133020 Increasing the capacity to integrate students and graduates into the labor market through practical advice and placements; POSDRU 64210 Transnational partnership Universities Enterprises for student practice; short-term expert - Trainer: POSDRU 62468 Professionalization of the teaching career - new skills for actors of changes in education in Harghita and Neamt counties; director and / or responsible partner in UEFISCDI projects of type PN II (SPINE, CHANCE, EXORAS); INTERREG IV project expert: Digital Cities (Brasov City), DISTRICT + (Brasov County).
- Experience in the activity of elaboration, submission and development of projects with community financing.
- Linguistic competence certificate (English) - 2006/2008 Transilvania University of Brasov.
- Diploma in Design, implementation and auditing of management systems in testing / calibration laboratories - initiation in SR EN ISO CEI 17025 - 2008 MRC Craiova.

Driving license

- B, 1991

ADDITIONAL INFORMATION

Memberships

- Vice-president of ROAMET branch Brasov (Romanian Association of Mechanical Transmissions)
- Member of ARoTMM (Romanian Association of Theory of Machines and Mechanisms)
- Member of SIAR (Romanian Society of Automotive Engineers)

Projects

Director / managing partner

1. Robotic assisted brachytherapy, an innovative approach in inoperable cancer therapy period: 2012/2016. funder: UEFISCDI NrContract: 173/2012
2. New haptic system of exoskeleton type for robotics and space automation period: 2012/2015 financier: Romanian Space Agency - ROSA NrContract: 13/2012
3. Diagnostic system and therapy of spinal disorders period: 2014/2017 funder: UEFISCDI NrContract: 227/2014 PN-II-PTPCCA-2013-4-1596

Member

1. ROBOCORE - Robotic assisted prostate biopsy, an innovative method of high precision period: 2014/2016 financier: UEFISCDI, Partnerships, <http://cester.utcluj.ro/robocore/index.html>, NrContract: 247/2014
2. VIRPE - virtual reality for product engineering period: 2006/2008 financier: CEEX M2 NrContract: II-5920/2006
3. NaviEyes - Intelligent Driver Assistant for Smartphones period: 2014/2016 Funder: UEFISCDI, NrContract: 240 of 07/01/2014 (PN-II-PTPCCA- 2013-4-2023)

01.01.2025