

PERSONAL INFORMATION

Gheorghe-Romeo CIOARĂ

✉ cioarar@unitbv.ro

POSITION
IOSUD UTBV

PhD Coordinator
Doctoral studies field: Industrial Engineering
Since 2008

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Industrial engineering
Kinematics and construction of machine tools; Applied inventics (in mechanical engineering)

WORK EXPERIENCE

2006 – present

Professor

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov, www.unitbv.ro

- Research and teaching activities

1998-2006

Associate professor

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov, www.unitbv.ro

- Teaching and research activities

1992-1998

Lecturer

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov, www.unitbv.ro

- Teaching and research activities

1985-1992

Assistant professor

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov, www.unitbv.ro

- Teaching and research activities

1983-1985

Engineer trainee

Company NEPTUN Cîmpina, county Prahova

- Technical assistance and design

EDUCATION AND TRAINING

2006

PhD Coordinator (field: Industrial engineering)

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov

- Continuous innovation; Training specialists in theoretical and applied research

EQF level: 7

1991-1998

Doctor engineer (specialization: Machine tools and integrated systems of machines)

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov

- Theoretical and experimental contributions regarding the kinematics, dynamics and construction of a main executing mechanism with hypocycloid trajectory used in high productivity pressing machines

EQF level: 6

1978-1983

Mechanical engineer (specialization: Machine tools)

Transilvania University of Brasov, 29 Eroilor av., 500036 Brasov

EQF level: 5

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	A2	A2	B2
French	B2	B2	A2	A2	A2

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

Communication skills ▪ good communication skills acquired through their own teaching and research experience

Organisational / managerial skills ▪ initiator and chief editor of **RECENT** journal, an internationally recognized
 ▪ organization, planning and development of scientific research (project director for several grants and contracts of scientific research)

Job-related skills ▪ solid experience as an inventor, including in the training and transmission of such skills
 ▪ programming and service CNC punching machines

Digital skills

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

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Other skills ▪ very good knowledge of macromicetes (personal hobby)

ADDITIONAL INFORMATION

Publications (selection)

Crank mechanical presses (Prese mecanice cu manivelă). Matrix Rom, ISBN 978-606-25-0191-4, București, 2015 (in Romanian)
Machine tools for cold forming (Mașini-unelte de prelucrat prin deformare). Editura Universității Transilvania, ISBN 978-973-655-598-306-2, Brașov, 2008 (in Romanian)
Specialized and special machine tools (Mașini-unelte specializate și speciale). Editura Universității Transilvania, ISBN 973-655-508-X, Brașov, 2005 (in Romanian)
Clutches and brakes for machine tools for cold forming. Calculation, design, construction (Cuplaje și frâne pentru mașini-unelte de prelucrat prin deformare. Calcul, proiectare, construcție). Matrix Rom, ISBN 973-685-857-X, București, 2005 (in Romanian)
Non-circular teeth and non-circular contour gear cutting machines (Danturi necirculare și mașini de danturat pe contur necircular). Editura Universității Transilvania, ISBN 973-8124-29-8, Brașov, 2001 (in Romanian)

Patents (selection)

(the English titles of the patents are those indicated in the RoPatentSearch database of the OSIM (State Office for Inventions and Trademarks))

Open frame. Patent RO 129636 / 2017
Device for lathe-turning of semi-spherical ends. Patent RO 129632 / 2017
Equatorial spheric hypocycloidal cold-pressing automaton. Patent RO 126545 / 2017
Milling machine for making spur gear toothing with circular sector-shaped directrix. Patent RO 125758 / 2017
Process, tool and machine for expanding sheet metal. Patent RO 125588 / 2015
Numerical control machine for teething circular or non-circular spur wheels by mortising with wheel-cutter. Patent RO 121502 / 2007
Machine for toothing circular and non-circular cylindrical wheels by mortising with a cutting wheel. Patent RO 119002 / 2005

Projects (selection)

Funding for the publication of the RECENT journal, ISSN 1582-0246, a specialized journal in the field of Industrial Engineering. Cooperation contract no. 14/2008 (contract manager)
Ecological design and sustainable development of products. Contract 33369/2005, CNCSIS code 1344
Use of AS 400 and MAPICS / DB as a computer system for simulated enterprises intended for modern training and student performance. Contract 3993/2000, CNCSIS code 744 (contract manager)
Gear cutting machines with numerical control, by slotting circular and non-circular spur gears with knife wheel. Contract 7005/1997, CNCSU code 1290 (contract manager)

Honours and awards (selection)

Gold medal, International Salon of Inventions, Geneva, April 13, 2018, for patent RO 129634
 Gold medal, at EuroInvent 2018, for patent RO 129636
 Gold medal, at INVENTICA 2017, for patent RO 129634
 Gold medal "Thinker from Hamangia", with special mention of the jury, at INVENTICA 2015, for patent RO 129632
 Gold medal, International Salon of Inventions, Geneva, March 31, 2017, for patent RO 129632
 Gold Medal and Eureka! Diploma, The World Exhibition on Inventions, Research and New Technologies, Barcelona, 5th May 2017, for patent RO 129632
 Gold medal + Diploma of Excellence with special mention, ProInvent 2016, for patent RO 129637

Afilieri

member AMIER (Association of Managers and Engineers Economists of Romania)
 member ARTN (Romanian Association of Non-Conventional Technologies)

ANNEXES

Papers (selection)

Cioară, R.: "Hydraulic Cushion" Type Overload Protection Devices Usable in Mechanical Presses. A Patent Study. IManEE 2016, IOP Conf. Series: Materials Science and Engineering 161 (2016) 012006 doi:10.1088/1757-899X/161/1/012006
 Szekely, V., Cioară, R.: Heavy Bearings Exploitation Energy and Reduction Methods. IManEE 2016, doi:10.1088/1757-899X/161/1/012009
 Cioară, R.: Functional Model of an Equatorial Spherical Hypocycloid Automaton. Applied Mechanics and Materials, ISSN print 1660-9336, Vol. 809-810 (2015), pp. 950-955, © (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.809-810.950
 Cioară, R.: Correlated Determination of Mechanical Press Functional Parameters. **RECENT**®, ISSN 1582-0246, vol. 16(2015), nr. 2(45), pp. 69-84
 Cioară, R.: On the Kinematic Structure of Cold Forming Machine-Tools with Several Main Effector Elements. Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 657 (2014), pp. 111-115, doi:10.4028/www.scientific.net/AMM.657.111
 Cioară, R.: Type-Linkages for Machine-Tools. Proceedings of ModTech 2011, Vol. I, ISSN 2069-6736, pp. 229-232
 Cioară, R.: Romanian Academic Inventions in 2001-2010 Years. **RECENT**®, ISSN 1582-0246, vol. 12(2011), nr. 3(33), Brasov, pp. 223-232
 Cioară, R., Răceu, R., Pöllner, C.: Spatial hypocycloidal automatic machine for cold forming. Concept and structure. Proceedings of ModTech 2010, ISSN 2066-3919, pp. 191-194
 Cioară, R.: About structure of the main linkage on cold forming machine-tools. Proceedings of ModTech 2009, ISSN 2066-3919, pp. 147-150

Coordinated theses

Innovative research and development of new vulcanizing presses
 Innovative research on the development of new automatic presses
 Innovative research regarding the C-frame construction of mechanical presses

Romeo CIOARĂ
 26.03.2020

Signature: