

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **MOGAN, Gheorghe-Leonte**

Address(es)

Mobil:

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E-mail **mogan@unitbv.ro**

Nationality

Date of birth

Gender

### Work experience

2005: present University TRANSILVANIA of Braşov, PhD supervisor in Industrial Engineering (5 PhD theses supervised and approved by CNADCU ministry commission)

2001: present University TRANSILVANIA of Braşov, Full professor at the "Automotive and Transportation" Department

2008-2000: University TRANSILVANIA of Braşov, Head of Product Design and Robotics Department

2001-1998: University TRANSILVANIA of Braşov, Associate Professor

1998-1992: University TRANSILVANIA of Braşov, Lecturer

1992-1982: University TRANSILVANIA of Braşov, Assistant

1982-1980: Aeronautics Factory, engineer.

### Education and training

1969-1974 : High School Barsov, in "Industrial Technology".

1975-1980 : Diploma in Industrial Technology at University Transilvania of Brasov.

1991-1995 : PhD in Mechanical Engineering, University Transilvania of Braşov

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (\*)

**English**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Experienced user	B1	Independent user	B1	Independent user	B2	Independent user

(\*) Common European Framework of Reference for Languages

Social skills and competences Team spirit; sociable and dynamic; negotiation Skills

Organisational skills and competences Organizing and coordinating academic teaching activities; Organizing and coordinating academic research (including supervised doctoral theses; 5 Phd Thesis validated); development and management of research projects (in the last 10 years I was director of 1 FP5 project and coordinator of national 4 projects)

Technical skills and competences Theoretical knowledge and practical skills in basic and applied research in the fields of mechatronics, robotics, CAD / CAE, optimization of mechanical structures, finite element analysis

Computer skills and competences Basic languages: Fortran, Pascal, MATLAB  
Finite element analysis environment CATIA, NASTRAN, NISA, ANSYS

Artistic skills and competences

Other skills and competences

Driving licence B level

**Additional information** References can be provided on request

**Annexes** Annex 1 (books, scientific papers, research grants)

20.03.2018

Prof. univ. dr. ing. Gheorghe-Leonte MOGAN,

**Books (selection)**

1. Mogan, Gh., *Metoda elementelor finite in inginerie, Bazele teoretice*, Ed. Universității Transilvania, 1997.
2. Mogan, Gh. *Metoda elementelor finite în inginerie. Aplicații practice*, Ed. Lux Libris, Brasov, 1999.
3. Mogan, Gh. *Proiectarea constructivă a sistemelor mecatronice. Roboți industriali*, Ed. Universității Transilvania, 2003.
4. Mogan, Gh., Talaba D. (eds) *ECOMECA. ECO-inginerie MECAnica*. Editura Universitatii Transilvania, Brasov.
5. Mogan, Gh., Butnariu, L., *Analiza cu elemente finite. Aplicații in CATIA*, Ed. Universității Transilvania, 2007.
6. Mogan, Gh. , Butnariu, L, *Organe de mașini. Teorie-Proiectare-Aplicatii (Sistem integrat)* Ed. Universității Transilvania, 2013.
7. Mogan, Gh. , Butnariu, L, *Organe de mașini. Teorie-Proiectare-Aplicatii (Sistem integrat). ediția a III- a.* Ed. Universității Transilvania, 2015.
8. Mogan, Gh. , Butnariu, L, *Probleme și Teste de Organe de mașini. Teorie-Proiectare-Aplicatii, ediția a II- a.* Ed. Universității Transilvania, 2017.

**Paper and research grants (selection)****A. Paper**

1. Aron, C., Ionescu, M., Cojanu, C., Mogan, Gh., Programming of robots using virtual reality technologies, Applications and Tools for Intelligent Manufacturing Systems, Springer, Vol. 35., ISBN: 978-1-4020-8199-6, 2008 (ISI Springer Proceedings).
2. Sisca, S., Mogan, Gh., Subrin, K. Virtual and Real Testing of Products, in Tools and Methods Based on Virtual Reality, Published by Springer, ISBN 978-1-4020-8199-6, 2008 (BDI Springer Proceedings).
3. Mogan Gh. Butila E. *Expert system for the Total design of Mechanical Systems with Gears* in „Product Engineering Eco-Design, Technologies and Green Energy”, Springer, 2004, pp.227-252. (ISI Springer Proceedings).
4. Aron, C. Ionescu, M., Mogan, Gh. *Aspects concerning programing of manufacturing and assembly robotic cells in virtual enviromment*, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gh. Asachi”, Iași, Tomul L (LIV), Fasc. 6A, 2006.
5. Cojanu C., Mogan, Gh. *The compensation of the manufacturing deviations with the vision sistem of quality inspection*, The 1st International Conference Advanced Engineering in Mechanical Systems (ADEMS'07), ISSN 1221 – 5872, pp 301-304, Cluj, Romania 2007.
6. Ionescu M, Mogan Gh. Considerații privind cooperarea roboților din celulele de fabricație, Simpozionul PRASIC'06, ISBN (10)973-635-825-9, Brasov, Romania.
7. Aron, C., Mogan, Gh., Celula robotizata de asamblare cu mediul virtual, conferinta internationala TMCR'05, Chisinau, Moldova, 2005.
8. Aron, C., Ionescu, M., Mogan, Gh., Programarea unui robot industriali utilizand tehnologii de realitate virtuala, 1st International Conference Advanced Engineering in Mechanical Systems, Cluj-Napoca, 2007.
9. Mogan, Gh. Aron, C. Robotised Assembly Processes with Force and Fine Motion Control around Contact Areas, Proccedings of 4<sup>th</sup> international conference on Robotics, Brasov, 2008.
10. Gall, R. Troster, Mogan, Gh. Research upon Development in the field of Autonomus Vehicles, Proccedings of 4<sup>th</sup> international conference on Robotics, Brasov, 2008.
11. Hatton, B., Mogan, Gh. Enhanced Ergonomics and Virtual Reality Applied to Industrial Robots Programming, Proccedings of 4<sup>th</sup> international conference on Robotics, Brasov, 2008.
12. Aron, C., Mogan, Gh., Aspects Concerning Robotic Assembly Operations Using Force Sensors, The 5th International Symposium KOD 2008, 15-16 April 2008, Faculty of Technical Sciences, Novi Sad, Serbia, 2008.
13. Duguleană, M., Barbuceanu, F., Teirelbar, A. Mogan, Gh. “Obstacle avoidance of redundant manipulators using neural networks based reinforcement learning”, *Journal of Robotics and Computer Integrated Manufacturing* (FI 1.254), USA, iulie, 2011.
14. Duguleană, M., Mogan, Gh. *Using Eye Blinking for EOG-Based Robot Control*, In IFIP Advances in Information and Communication Technology, ISSN 1868-4238 (Print) 1868-422X (Online), ISBN 978-3-642-11627-8, 2010, pag. 340-350 ( Springer)
15. Duguleana M., Gîrbacia F., Mogan G., Using Dual Camera Smartphones as Advanced Driver Assistance Systems: NAVIEYES system architecture, 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments, Corfu, Greece, Proceedings of the 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments, 2015, pp. 1-23.
16. Voinea D. G., Mogan G., "Development of a Wearable Scoliosis Monitoring System Using Inertial Sensors", Applied Mechanics and Materials, Vol. 811, Nov. 2015, pp. 353-358.
17. Duguleană, M., Mogan, Gh. Neural networks based reinforcement learning for mobile robots obstacle avoidance, Expert Systems with Applications, vol 62, November 2016, pp. 104-115 (FI 2.981).
18. Voinea, D., Butnariu, S., Mogan, Gh. Measuring and geometric modelling of human spine posture for medical rehabilitation purposes using a wearable monitoring system based on inertial sensors, Sensors (ISSN 1424-8220), 2016, 16(12), Special Issue - Body Worn Behavior Sensing (FI 2.033, acceptata pentru publicare).

B. European research grants

1. FP6 „VEGA” – *Virtual Reality In Product Design And Robotics*, 2005-2008, ( Contractor).
2. FP5 „ADEPT” - *Advanced Computer Aided Design Of Ecological Products And Technologies Integrating Green Energy Sources*, 2002-2005 (Coordonator)
3. FP5 - IMS „IRMA” – *Reconfigurable Virtual Reality System for Intelligent Manufacturing Systems*, 2002-2004 (Membru).
4. INTERREG IV - *Digital Cities*, 2008-2011, (Membru).
5. Horizon 2020 - eHERITAGE - *Dezvoltarea capacității de cercetare și inovare al aplicațiilor de realitate virtuală în domeniul patrimoniului cultural*, 2015-2018 (Membru).

C. National research grants

1. PN-II-PT-PCCA: - *Asistent inteligent de navigare auto pentru dispozitive mobile bazat pe urmărirea privirii* (NAVIEYES), Proiect 240/2014, 2014-2016, 1438000 RON (Coordonator proiect).
2. IDEI: PROROB – *Programarea cognitivă a roboților din celulele flexibile de fabricație*. Proiect ID\_775, 2008-2011, 1.000.000 RON, (Coordonator proiect).
3. CEEEX M1: MERVI - *Mediu colaborativ de Realitate Virtuală pentru planificarea pre-operatorie în ortopedie*, Contract 114/2006, 2006-2008, 1.500.000 RON (Coordonator tehnic)
4. CEEEX M2: VIRPE – *Realitate Virtuală în Ingineria produsului*, Contract 5920/2006, 2006-2008, 487.000 RON, (Coordonator tehnic)
5. Platformă CNCIS: TRIMA – *Tehnici și tehnologii de Realitate Virtuală aplicate în Inginerie Medicină și Artă*, 2006-2008, 850.000 Euro, (Coordonator proiect)
6. PN II Parteneriate: TOMIS – *Utilizarea realității virtuale în reconstituirea Multimodala 3D a site-urilor istorice* (coordonator Univ. Ovidius of Constanta, Univ Transilvania – partner coordonator), 2007-2010.

20.03.2018

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