




PERSONAL INFORMATION

Hancu Olimpiu

 Technical University of Cluj-Napoca, Departament of Mechatronics and Machine Dynamics
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Sex Gender | Nationality Romanian

CURRENT POSSITION

Associate Professor

Technical University of Cluj-Napoca
 Faculty of Automotive, Mechatronics and Mechanical Engineering
 Department of Mechatronics and Machine Dynamics

EDUCATION

2001-2007	PhD - Mechanical Engineering Technical University of Cluj-Napoca Title: Contributions regarding optimal design of mechatronic systems	ISCED 8
1999-2001	Diploma - Applied Informatics and Programming Technical University of Cluj-Napoca, Postgraduate Academic School	ISCED 7
1988-1993	Diploma - Mechanical Engineer Technical University of Timișoara, Mechanical Faculty Specialization: Hydraulic and Pneumatic Machines	ISCED 6
1983-1987	Diploma - Baccalaureate Industrial High School no.1, Târnăveni	ISCED 3

Certificates/
Specializations

2009, Certificate: Stateflow for Logic Driven System Modeling, Mathworks, Amsterdam, Holand
 2008, Certificate: PLC programming (STEP7 Basics), Konstance, Germany
 2008, Certificate: Hardware in The Loop test systems, dSpace, Padenborn, Germany
 2007, Certificate: Matlab and Simulink for control design acceleration, Mathworks, Stuttgart, Germany
 2007, Certificate: ControlDesk Automation, Paderborn, Germany
 2007, Certificate: dSPACE Real-Time Systems, Paderborn, Germany
 2002, Attending certificate at training courses: Electrohydraulics, Proportional Hydraulics, PLC control (IEC1131-3, IL, FBD, LD), Sequential control, PLC control of hydraulics
 Minerva-Festo, Oslo, Norway.

WORK EXPERIENCE

2017-2019	Associate Professor
2003-2017	Lecturer
2001-2003	PhD student

Technical University of Cluj-Napoca,
 Faculty of Automotive, Mechatronics and Mechanical Engineering,
 Department of Mechatronics and Machine Dynamics,
 Address: Memorandumului 28, 400114, Cluj-Napoca, www.utcluj.ro

Main activities: education, research, institutional activities.
 Disciplines: Optimal Design of Mechatronic Systems, Programmable Logic Controllers, Hydraulics and Pneumatics, Integrated Systems, Control Automations and Vending Machines, Computer Assisted Design.

Business or sector Education & Research

1993-2001 **Engineer**

Unirea High School – Cluj-Napoca (1999-2001), Technical High School – Tîrnăveni (1993-1999)
 Main activities: education
 Fields/Disciplines: Mechanics, Electromechanics, Informatics
 Business or sector Education & Research

PERSONAL SKILLS

Mother tongue
 Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

Team spirit, communication and relationship skills acquired through educational activity, implementation of national and international projects, attending to conferences, workshops and multinational meetings, national and international scientific events.

Organisational / managerial skills

Partner manager of PCCA project no. 225 (2014-2017): led the research activity related to Partner 2 – UTCN, organized a regional workshop and local meetings to implement the project.
 Technical Director of the project POSDRU/87/1.3/S/64069 (2010-2014): led and organized project activities. Other results: three accredited educational programs, seven regional workshops, a national conference, three national competitions in the field of mechatronics.
 Key expert of more than 10 research projects (2001-2019).
 Regional coordinator (UTCN team) of the national mechatronics competition, at university level: Days of Mechatronic Education (2010-2019)

Job-related skills

Competence fields:
 - modelling and simulation of mechatronic systems,
 - designing and control of mechatronic systems,
 - programming of industrial applications controlled by PLCs,
 - hydraulic and pneumatic servo systems,
 - sensors and measuring systems.

Computer skills

PLC programming languages IEC 61131 (Ladder Diagram, Instruction List, Structured Text, Function Block Diagram, SFC); professional software environments for modelling, simulation, dynamic analysis and control (Matlab, FluidSim, ControlDesk); CAD and FEM products (SolidWorks, Catia, Nastran), database development (PHP, MySQL), WEB pages, office applications (word, excel etc).

Driving license

B

ADDITIONAL INFORMATION
 SCIENTIFIC ACTIVITY

Publications

1. Scientific papers: **45 papers** published as first author or coauthor in journals and international conference proceedings (BDI[44], ISI[1]).
 2. Books: 2 (first author (1) and coauthor (1))
 3. Book chapters: 6 (first author (2) and coauthor (4))
(full list of publications is attached)

Projects

1. Reserch project: PN-II-PT-PCCA-2013-4-1629, Contract nr. 225/2014,
 Possition: Partner Manager
 Title: „MoniCult - Design, manufacturing and testing of a mechatronic system for multispectral surveillance of crops vegetation status”
 2. Member of the research collectives of 11 projects, of which 2 international:
 - „Digital Environment Home Energy Management Systems” , Proiect FP7, Dir. Prof.dr.ing. R.Bălan;
 - „Mainstreaming the model for flexible industrial training”, MoFIT2, Proiect LEONARDO DA VINCI (LDV II), nr. IE/04/B/F/PP-153207 (www.mofit.net), Dir. Prof.dr.ing. V.Mătieș.

3. Technical Director: POSDRU/87/1.3/S/64069 (2010-2014)
Title: „Flexible professional training program on mechatronic systems”

Patents - Patent no.103548/28.01.2009, „Mobile laboratory for mechatronic education”
Owners: Mătieș, V., Bălan, R., Rusu, C., Hancu, O., Lăpușan, C., Besoiu, S.
- two patent applications under OSIM evaluation

Awards As coordinator/trainer of UTCN team:
First prize - National Olympiad of Mechatronics, Mechatronic Systems, Cluj-Napoca 2002
First prize - National Mechatronics Competition, Mechatronic Systems, Brașov 2010 (ZEM 2010)
Second prize - National Mechatronics Competition, Mechatronic Systems, Timișoara 2011 (ZEM2011)

Memberships ARoTMM - Romanian Association for the Promotion of Machines and Mechanisms Science
SROMECA - Romanian Society of Mechatronics

References <http://mdm.utcluj.ro>

ANNEXES

Copies of diplomas (doctoral, postgraduate, bachelor, baccalaureate)
Copies of certificates/diplomas - certified specializations
Papers list (papers, projects, books)

Date: 21.01.2019

Hancu Olimpiu