

PERSONAL INFORMATION



Ciprian LĂPUȘAN

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Date of birth 31/01/1981 | Nationality Romanian

PROFESSIONAL TEACHING EXPERIENCE

2020 – present

Associate Professor

Technical University of Cluj-Napoca - <http://www.utcluj.ro>

Courses taught: Mechanisms (undergraduate II and III), Computer Aided Design (undergraduate IV), Integrated design in precision engineering (graduate level);

Laboratory activities: Design of mechatronics systems (undergraduate IV), Advanced control methods (undergraduate III), Digital control of mechatronic systems (graduate level)

2012 – 2020

Lecturer

Technical University of Cluj-Napoca - <http://www.utcluj.ro>

Didactic activities, Scientific research activities

2008 – 2012

Assistant professor

Technical University of Cluj-Napoca - <http://www.utcluj.ro>

Didactic activities, Scientific research activities

EDUCATION

2015

Postdoctoral studies

Technical University of Cluj-Napoca

Research theme: Advanced mechatronic systems for optimal management and efficiency increase of energy consumption

2010

Ph. D in Mechanical Engineering

Technical University of Cluj-Napoca

Thesis Theme: Research regarding the integrated design and interfacing of the mechatronic systems

2006

Master's Degree - Advanced Methods and Instruments in Quality Assurance Management and Engineering

Technical University of Cluj-Napoca

Dissertation Theme: Research regarding simulation and modeling of mechatronic systems

2005

Bachelor of Engineering

Technical University of Cluj-Napoca

Principal subjects: Mechatronics

VISITING PROFESSOR / RESEARCHER

June – July, 2010

French Institute for Advanced Mechanics (IFMA), Clermont-Ferrand (France)

Visiting researcher

February, 2016

JAMK University of Applied Sciences, Jyväskylä (Finland)

Visiting Professor

November, 2019

University of Jaen, Jaen (Spain)

Visiting researcher

TRAINING COURSES

06/2012-09/2013	Development of university teaching career (DidaTEC) Professional development program organized by Technical University of Cluj-Napoca (Romania)
03/2009	Stateflow for Logic Driven System Modeling Company MathWorks, Amsterdam (Netherlands)
12/2008	Project manager Course organized by CNFPA, Cluj-Napoca (Romania)
07/2008	Step 7, PLC Programming Company Christiani, Konstanz (Germany)
06/2008	HIL Test Systems Company dSpace, Paderborn (Germany)
12/2007	Advanced Modeling Techniques Using Simulink Company MathWorks, Stuttgart (Germany)
12/2007	MathWorks - MATLAB and Simulink for Control Design Acceleration Company MathWorks, Stuttgart (Germany)
02/2007	Certificate of competence: ControlDesk Automation Company dSpace, Paderborn (Germany)
02/2007	Real-Time Systems Training Company dSpace, Paderborn (Germany)

RESEARCH ACTIVITY

International research projects

- FP7 Project: The Digital Environmental Home Energy Management System (DEHEMS), member in the project research team, period 2008-2011, budget 138058 Eur

National research project

Project Manager

- Project: *Advanced mechatronic systems for optimum management and efficiency increase of energy consumption* (eSMART), project manager (postdoctoral scholarship), period 2014-2015.

Research scholarships

- Scholarship for excellence: Grant type BD 55/ 2006, given by Ministry of Education and Scientific Research;
- Postdoctoral scholarship, project theme: Research regarding integration and interfacing process in mechatronics – project type TD Nr. 533/2006 CNCSIS, project manager, period 2007-2008.

Member in more than 10 research projects teams, from which are reminded:

- Project – “*Autonomous robotic systems for waste management in the context of the smart city*”, grant no. PN-III-P1-1.2-PCCDI-2017-0086 / 22/2018, member in the project research team, period: 2018-2020;
- Project – “*Design, manufacturing and testing of a mechatronic system for multispectral surveillance of crops vegetation status*”, grant no PN-II-PT-PCCA-2013-4-1629, member in the project research team, period: 2014-2017;
- Project – “*Research regarding advance control with application in mechatronics*”, PNII, Program „Idei” no. 1072 / 2007, member in the project research team, period: 2007-2010;
- Project – *Multifunctional regional mechatronic laboratory*, grant PN II Program Capacități No. 111/ CP/I, member in the project research team, period: 2007-2009;
- Project – *Modeling, simulation and control laboratory with application in mechatronics*, grant CEE/112 2006, member in the project research team, period: 2006-2008.

Institutional projects

Coordinator

- International project - *Smart HEI-Business collaboration for skills and competitiveness*, TUCN coordinator, Prj. index: 575660-EPP-1-2016-1-FI-EPPKA2-KA, period: 2017-2019.

Member

- International project - *Joint MSc in Electrical Engineering* – JMEE, Project index 544644-

	TEMPUS-1-2013-1-UK-TEMPUS-JPCR, period: 2014-2017.
	- International project - <i>Reshaped Partnerships for Competitiveness and Innovation Potential in Mechanical Engineering</i> , Project Index: 540425-LLP-1-2013-1-FI-ERASMUS-EKA, period: 2013-2015.
	- National project - POSDRU - <i>Flexible professional training on mechatronic platforms - FlexFORM</i> , POSDRU 87/1.3/S/64069, member in the project management team, period: 2011-2013.
Publications	<ul style="list-style-type: none"> - 3 Books – two as single author, one as first author; - 7 book chapters – as first or coauthor at national and international publishers; - more than 40 scientific papers as first or coauthor, of which 4 Journals indexed in ISI Web of Science, 25 ISI Proceeding, the papers were published at national and international conferences and in national and international journals; - H-index: - Web of Science: 4 <ul style="list-style-type: none"> - Google Scholar: 6
Patents	- Patent nr. 103548 from 28.01.2009, title: Portable laboratory for mechatronic education, patent holders: Mătieș, V., Bălan, R., Rusu, C., Hancu, O., Lăpușan, C., Besoiu, S.
Awards	- Best paper award, 2014 IEEE International Conference on Automation, Quality and Testing Robotics (AQTR 2014);
Reviewer	Reviewer in international scientific conferences: CIRA07, IECON08, HSI09, MSC09 and ISI Journals: Robotics and Autonomous Systems, Journal of Control, Automation and Electrical Systems, Journal of King Saud University - Engineering Sciences

ADDITIONAL INFORMATION

Organizational / managerial skills	<ul style="list-style-type: none"> - Manager of 2 research projects and 1 institutional project - Coordinator of more than 45 bachelor thesis and master thesis - Organizer of 7 national and international seminars and workshops - TUCN coordinator of the International Cooperation Project 2014 (ICP2014) – university partners Technical University of Cluj-Napoca and Esslingen University of Applied Sciences, - TUCN coordinator of the Bosch Real-Life Problem Solving Project (RLPS2018) - university partners Technical University of Cluj-Napoca, University of Miskolc and JAMK University of Applied Sciences
Professional Affiliations	<ul style="list-style-type: none"> - Member of IFToMM - International Federation for the Promotion of Mechanism and Machine Science - Member of IAENG - International Association of Engineers - Member of SROMECA - Romanian Society of Mechatronics - Member of RSR – Robotics Society of Romania - Member of ARoTMMM - Romanian Association for Mechanisms and Machines Science
Language(s)	<ul style="list-style-type: none"> - Romanian – mother language - English - C1

Date,
October 2020

Assoc. Prof. dr. ing. Ciprian Lapusan