

PERSONAL INFORMATION**Ciprian LĂPUȘAN**

📍 Muncii Blvd., Nr. 103, Room C302, 400641 Cluj-Napoca (Romania)

☎ +40264-401756

✉ ciprian.lapusan@mdm.utcluj.ro

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: Advanced control systems, Digital control of mechatronic systems, Computer Aided Design, Integrated design in precision engineering, Theory of machines and mechanisms;

Institutional task: ARMM Faculty Coordinator for the Erasmus+ programme

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, Jyvaskyla (Finland)

Visiting Professor

November, 2019

University of Jaen, Jaen (Spain)

Visiting researcher

TRAINING COURSES

09/2021	Physics-Based Sensor Simulation Company dSpace
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, Kostanz (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: Research regarding integration and interfacing process in mechatronics – project type TD Nr. 533/2006 CNCSIS, project manager, period 2007-2008.

Research scholarships

- Scholarship for excellence: Grant type BD 55/ 2006, given by Ministry of Education and Scientific Research;
- Postdoctoral scholarship, project theme: Advanced mechatronic systems for optimum management and efficiency increase of energy consumption (eSMART), project manager (postdoctoral scholarship), period 2014-2015.

Member in more than 11 research projects teams, from which are reminded:

- Project: Continuous robotic arm for automated harvesting and inspection with applications in vertical farming PYTHON, grant nr. 303 PED/2020, membru in echipa de cercetare, perioada: 2020-2022;
- 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 CEEX/112 2006, member in the project research team, period: 2006-2008.

Institutional projects

Coordinator

- International project - International Cooperation Framework for Next Generation Engineering Students, project coordinator, No. 2022-1-RO01-KA220-HED-000088365, period: 2022-2025
 - 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 - *Reshaped Partnerships for Competitiveness and Innovation Potential in Mechanical Engineering*, Project Index: 540425-LLP-1-2013-1-FI-ERASMUS-EKA, period: 2013-2015.
 - National project - POSDRU - *Flexible professional training on mechatronic platforms - FlexFORM*, POSDRU 87/1.3/S/64069, member in the project management team, period: 2011-2013.
- Publications
- 3 Books – two as single author, one as first author;
 - 7 book chapters – as first or coauthor at national and international publishers;
 - more than 45 scientific papers as first or coauthor, of which 11 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: 5
 - Google Scholar: 7
- 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
- Manager of 2 research projects and 2 institutional project
 - Coordinator of more than 45 bachelor thesis and master thesis
 - Organizer of 10 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
- 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)
- Romanian – mother language
 - English - C1

Date,
February 2025

Assoc. Prof. dr. eng. Ciprian Lapusan