

PERSONAL INFORMATION



ICLODEAN CĂLIN DORU

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Sex Male | Date of birth 18/09/1969 | Nationality Romanian

WORK EXPERIENCE

2021-present

Associate Professor PhD (C14)

Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports

- Informatica in Transporturi, course and laboratory for students in the 4th year of study ITT (BSc).
- Geografia Economica a Sistemelor de Transport (in Romanian), course and laboratory for students in the 4th year of study ITT (BSc).
- Managementul Motoarelor pentru Autovehiculele de Transport (in Romanian), course and laboratory for students in the 1st year of study LST (MSc).
- Communication BUS Architecture (in English), course and laboratory for students in the 1st year of study ATAE (MSc).
- Hardware and software in the loop (in English), course and laboratory for students in the 1st year of study ATAE (MSc).
- Introducere în Sistemele Automobilelor I (in Romanian), course and laboratory for students in the 1st year of study SMCA (MSc).
- Introducere in Sistemele Automobilelor II (in Romanian), course and laboratory for students in the 1st year of study SMCA (MSc).

Business or sector Higher education.

2015-2021

Lecturer PhD (SL19)

Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports

- Informatica in Transporturi, course and laboratory for students in the 4th year of study ITT (BSc).
- Geografia Economica a Sistemelor de Transport (in Romanian), course and laboratory for students in the 4th year of study ITT (BSc).
- Managementul Motoarelor pentru Autovehiculele de Transport (in Romanian), course and laboratory for students in the 1st year of study LST (MSc).
- Communication BUS Architecture (in English), course and laboratory for students in the 1st year of study ATAE (MSc).
- Hardware and software in the loop (in English), course and laboratory for students in the 1st year of study ATAE (MSc).
- Introducere în Sistemele Automobilelor I (in Romanian), course and laboratory for students in the 1st year of study SMCA (MSc).
- Introducere in Sistemele Automobilelor II (in Romanian), course and laboratory for students in the 1st year of study SMCA (MSc).

Business or sector Higher education.

2013-2015

External Associate Professor

Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports

- Informatica in Transporturi, course and laboratory for students in the 4th year of study ITT (BSc).
- Motoare Termice (in Romanian), laboratory for students in the 3rd year of study ITT (BSc).
- Managementul Motoarelor pentru Autovehiculele de Transport (in Romanian), course and laboratory for students in the 1st year of study LTR (MSc).
- Sisteme si Echipamente Avansate pentru Autovehiculele de Transport (in Romanian), laboratory for students in the 1st year of study LTR (MSc).

- Diagnoza Avansata a Motoarelor cu Combustibili Regenerabili (in Romanian), course and laboratory for students in the 2nd year of study ER (MSc).

Business or sector Higher education.

2013-2014 Assistant Researcher

Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports

- Research activities in the areas of internal combustion engines (ICE), using the software applications Puma Open, AVL Concerto, VisioScope, FTIR, Indimodule, Etas Inca-PC, AVL Boost, AVL Boost RT, AVL Cruise, IPG CarMaker/TruckMaker.

Business or sector Higher education.

2010-2013 PhD Student Researcher

Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports

- Development of doctoral thesis „ Studies and research regarding the influence of parameters which are managed by the electronic control unit of an internal combustion engine that works with alternative fuels”.

Business or sector Higher education.

2006-2014 IT Support Engineer - External Contractor

Border Trans Service, Udine, Italy

- Allocation and Maintenance of IT Equipment, Diagnose Hardware and Software Issues, Document and Maintain IT Inventory, Review and Resolve IT Help-desk Requests, for the Company's Offices in Romania.

Business or sector International transport.

2009-2013 IT Support Engineer - External Contractor

Costruzioni Dondi S.p.A., Rovigo, Italy

- Allocation and Maintenance of IT Equipment, Diagnose Hardware and Software Issues, Document and Maintain IT Inventory, Review and Resolve IT Help-desk Requests, for the Company's Offices in Romania.

Business or sector Civil and industrial constructions.

1995-2014 IT Support Engineer - External Contractor

Entrepreneurial activities in the field of IT&C

- IT&C Consulting.

Business or sector IT&C.

EDUCATION AND TRAINING

2010-2013 PhD (according to order no. 5581 MD/03.12.2013)

Level 8 EQF

Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports

- Doctoral thesis: „Studies and research regarding the influence of parameters which are managed by the electronic control unit of an internal combustion engine that works with alternative fuels”.

1989-1994 Engineer with a bachelor's degree

Level 6 EQF

Technical University of Cluj-Napoca Romania, Department of Applied Electronics

- Competences in Digital Electronics, Analog Electronics, Power Electronics, Telecommunications.

- 1986-1989

High school diploma

"Nicolae Bălcescu" High school, Cluj-Napoca Romania

 - Competences in Mathematics, Physical, Informatics.

Level 5 EQF
- 2018

Project Manager Certificate

Certificate Issued by Minister of Labor and Social Justice

 - Accredited CNFPA / ANC, COR: 241919.
- 2015

Training Certificate

AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria.

 - Training for AVL InMotion / IPG CarMaker Simulation Software.
- 2015

Graduation certificate

Technical University of Cluj-Napoca Romania, Department of Teacher Training

 - Pedagogical module level I for higher education.
- 2015

Graduation certificate

Technical University of Cluj-Napoca Romania, Department of Teacher Training

 - Pedagogical module level II for higher education.
- 2011

Training Certificate

AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria.

 - Training for AVL Boost Simulation Software.
- 2011

Training Certificate

AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria.

 - Training for AVL Fire Simulation Software.
- 2011

Training Certificate

AVL List GmbH, AVL Skills Center, Graz, Austria.

 - Training for Puma Operating Single Cylinder Experimental System.
- 2011

Training Certificate

AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria.

 - Training for Visioscope, FTIR, Indimodule, Single Cylinder Research Engine and Optical Topworks.

PERSONAL SKILLS

Mother tongue Romanian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B1	B1
Certificate of linguistic competence issued by the Technical University of Cluj-Napoca, Department of Modern Languages and Communication.					

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

Communication skills

- Able to communicate complex information to individuals and groups, make presentations and respond to questions in both educational and workplace settings.
- Skills developed in degree programs and during work experience.
- Able to give and take instructions and maintain active listening during times of pressure.
- Analytical thinking, planning, strong verbal and personal communication skills.

Organisational / managerial skills

- Comprehensive knowledge of the emerging management theories, techniques, and practices.
- Accuracy and Attention to details, organization and prioritization skills.
- Problem analysis, use of judgment and ability to solve problems efficiently.
- Decision making, critical thinking, organizing and planning, tolerant and flexible to different situations.
- Self-motivated, initiative, high level of energy.

Job-related skills

- Working with minimal supervision and able to deal with multiple demands in a calm and professional.
- Understanding the importance of social responsibility policy and practice within a university.
- Able to complete a high volume of activities, often against tight timescales.
- Prepares and delivers lectures in a specific academic discipline and leads classroom discussions, administers and grades exams or delegates task to others.
- Extensive knowledge of course development, instructional design and recourse coordination.
- Conducting academic research and case studies in a specific academic discipline and publishes findings in trade journals, textbooks or other professional publications.
- Evaluates students' progress and responds to students' learning needs to consistently improve the quality of teaching and learning.
- Monitor's student performance and resolves student issues with the implementation of academic programs.

Computer skills**In-Information Technology:**

- Computer assembling and maintenance, troubleshooting hardware and software problems.
- Installing and configuring the peripherals, components and drivers, installing software and application to user standards.
- Familiarity with analogue circuit, digital Circuit, PCB design, schematic capture, board layout, vendor interface analysis and simulation.
- Excellent troubleshooting skills in complex software and hardware problems.
- Configuring, managing and maintaining networking equipment's, network processing, centralized and distributive network connection.
- Installing, configuring and administering network technologies, installed and configured workstations.
- Extensive knowledge of operating systems like Microsoft Windows, Ubuntu Linux, MAC OSX.
- Familiar with applications like MS Project, Adobe Photoshop, Microsoft Office Suite, Microsoft Front Page, Corel Draw.

In-Automotive Field:

- Proficient in computer simulation with software application AVL Boost/AVL Boost RT (various models of internal combustion engines).
- Proficient in computer simulation with software application AVL Cruise/AVL Cruise M (various models of powertrain: classical, hybrid and electric).
- Proficient in computer simulation with software application IPG CarMaker/TruckMaker (stand-alone models or co-simulation process with AVL Cruise interfaces).
- Computer modeling and simulation for electric vehicles, fuel cell vehicles, autonomous vehicles, powertrain concept, energy efficiency, the autonomous driving system algorithm.

Other skills**Other skills:**

- Member of the Topic Editorial Board Journal Electronics (ISI Impact Factor: 2.397/Q2), ISSN: 2079-9292: https://www.mdpi.com/journal/electronics/topic_editors.
- Member of the Editorial Committee American Journal of Biomedical Science & Research, ISSN: 2642-1747: <https://biomedgrid.com/associate-editors.php>.
- Reviewer profile: <https://publons.com/researcher/1671839/iclodean-calın-doru/peer-review/>.
- Member of the reviewer board Journal Sensors (ISI Impact Factor: 3.576/Q1), ISSN: 1424-8220: https://www.mdpi.com/journal/sensors/submission_reviewers.
- Member of the reviewer board Journal Energies (ISI Impact Factor: 3.004/Q1), ISSN: 1996-1073:

https://www.mdpi.com/journal/energies/submission_reviewers.

- Member of the reviewer board Journal Applied Sciences (ISI Impact Factor: 2.679/Q2), ISSN: 2076-3417: https://www.mdpi.com/journal/applsci/submission_reviewers.
- Reviewer Journal IEEE Access (ISI Impact Factor: 3.367/Q1), ISSN: 2169-3536.
- Reviewer Journal Molecules (ISI Impact Factor: 4.411/Q2), ISSN: 1420-3049.
- Reviewer Journal Sustainability (ISI Impact Factor: 3.251/Q1), ISSN: 2071-1050.
- Reviewer Journal Electronics (ISI Impact Factor: 2.397/Q2), ISSN: 2079-9292.
- Reviewer Journal Atmosphere (ISI Impact Factor: 2.686/Q2), ISSN: 2073-4433.
- Reviewer Journal of Energy & Environment - Sage (ISI Impact Factor: 1.775), ISSN: 0958-305X.
- Reviewer Journal of Vehicle Design (ISI Impact Factor: 1.771/Q3), ISSN: 1741-5314.
- Reviewer Journal Recycling (Scopus), ISSN: 2313-4321.
- Reviewer Journal Batteries (Scopus), ISSN: 2313-0105.
- Reviewer SAE International Journal of Engines, ISSN: 1946-3936.

Driving licence ▪ Driving licence category B.

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

Academic editor for special issue in indexed journals:

- Guest Editor for Special Issue "Autonomous Vehicles Technological Trends" in Journal Electronics (https://www.mdpi.com/journal/electronics/special_issues/AVT_electronics).
- Co-Guest Editor for Special Issue "Battery Management of Electric Vehicles" in Journal Energies (https://www.mdpi.com/journal/energies/special_issues/Battery_Management_of_Electric_Vehicle).
- Guest Editor for Special Issue "Intelligent Sensors for Smart and Autonomous Vehicles" (https://www.mdpi.com/journal/sensors/special_issues/autonomous_vehicles).

Honours and awards:

- FISITA (Fédération Internationale des Sociétés d'Ingénieurs des Techniques de l'Automobile) Student Travel Bursaries (Octombrie 2011 – Decembrie 2011).
- UEFISCDI - Premiarea rezultatelor cercetării – Articole Competiția 2016 - PN-III-P1-1.1-PRECISI-2016-10860.

Scientific activity:

- Coordinator of Computer Aided Design Laboratory (B307) of the Faculty of Automotive Engineering, Mechatronics and Mechanics, Technical University of Cluj-Napoca, Romania.

Scientific activity:

- Coordinator of the CAD assisted design laboratory (Room B307) within the Faculty of Road Vehicles, Mechatronics and Mechanics, Technical University of Cluj-Napoca.

Organizational activity:

Responsible for the development and maintenance of the department's website: <https://art.utcluj.ro/> and for master line website: <https://art.utcluj.ro/atae>.

Projects as project manager:

- Tender book for the purchase of autonomous shuttle buses (Cluj-Napoca, December 2019, SEAP notice #1030385) – Director of the Project.

Projects as a member of the project team:

- Support to Jaspers – Low-Carbon Rolling Stock for Urban Public Transport in Romania, TA2018065 RO JEU – Member of the Project Team and Director for Electric Buses.
- Tender book for the purchase of 12 m electric buses (Cluj-Napoca, February 2017, SEAP notice #172972) – Member of the Team.
- Tender book for the purchase of 12 m trolleybuses (Cluj-Napoca, February 2018, SEAP notice #182678) – Member of the Team.
- Tender book for the purchase of 30-32 m trams (Cluj-Napoca, February 2018, SEAP notice #182610) – Member of the Team.
- Elaboration of an opportunity study (traffic study and justification of the acquisition in terms of the environmental impact of new transport vehicles) for the acquisition of 19 electric buses (HCL 415/29.03.2018) – Member of the Team.
- Elaboration of opportunity study (traffic study and justification of the acquisition in terms of

environmental impact of new transport vehicles) for the purchase of 30 trolleybuses (HCL 441/18.04.2018) – Member of the Team.

- Elaboration of opportunity study (traffic study and justification of the acquisition in terms of environmental impact of new transport vehicles) for the acquisition of 16 trams (HCL 441/18.04.2018) – Member of the Team.
- Grant POC “Advanced Technologies for Smart Urban Vehicles URBIVEL”, Project Partnerships for knowledge (Universitatea Tehnică din Cluj-Napoca 2016-2019).

Affiliations

- Titular Member of SIAR Romania (Societatea Inginerilor de Automobile din Romania).
- Titular Member of SIA France (la Société des Ingénieurs de l'Automobile).

Cluj-Napoca
01.10.2021