



# Iclodean Călin Doru

Associate Professor PhD

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## Professional Experience

### Associate Professor PhD (C13)

2021 - Present

[Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports](#)

Teaching:

- Informatica in Transporturi (in Roumanian) - Course and Laboratory (4th year ITT BSc).
- Geografia Economica a Sistemelor de Transport (in Romanian) - Course and Laboratory (4th year ITT BSc).
- Managementul Motoarelor pentru Autovehiculele de Transport (in Romanian) - Course and Laboratory (1st year LST MSc).
- Communication BUS Architecture (in English) - Course and Laboratory (1st year ATAE MSc).
- Hardware and software in the loop (in English) - Course and Laboratory (2nd year ATAE MSc).
- Introducere in Sistemele Automobilelor I (in Romanian) - Course and Laboratory (1st year SMCA MSc).
- Introducere in Sistemele Automobilelor II (in Romanian) - Course and Laboratory (1st year SMCA MSc).

### Lecturer PhD (SL19)

2015 - 2021

[Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports](#)

Teaching:

- Informatica in Transporturi (in Roumanian) - Course and Laboratory (4th year ITT BSc).
- Geografia Economica a Sistemelor de Transport (in Romanian) - Course and Laboratory (4th year ITT BSc).
- Managementul Motoarelor pentru Autovehiculele de Transport (in Romanian) - Course and Laboratory (1st year LST MSc).
- Communication BUS Architecture (in English) - Course and Laboratory (1st year ATAE MSc).
- Hardware and software in the loop (in English) - Course and Laboratory (2nd year ATAE MSc).
- Introducere in Sistemele Automobilelor I (in Romanian) - Course and Laboratory (1st year SMCA MSc).
- Introducere in Sistemele Automobilelor II (in Romanian) - Course and Laboratory (1st year SMCA MSc).

### External Associate Professor

2013 - 2015

[Technical University of Cluj-Napoca Romania, Department of Automotive Engineering and Transports](#)

Teaching:

- Informatica in Transporturi (in Roumanian) - Course and Laboratory (4th year ITT BSc).
- Motoare Termice (in Romanian) - Laboratory (3rd year ITT BSc).
- Managementul Motoarelor pentru Autovehiculele de Transport (in Romanian) - Course and Laboratory (1st year LST MSc).
- Sisteme si Echipamente Avansate pentru Autovehiculele de Transport (in Romanian) - Laboratory (1st year LST MSc).
- Diagnoza Avansata a Motoarelor cu Combustibili Regenerabili (in Romanian) - Course and Laboratory (2nd year ER MSc).

### Assistant Researcher

2013 - 2014

[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.

### PhD Student Researcher

2010 - 2013

[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”.

**IT Support Engineer - External Contractor** 2009 - 2013

[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.

**IT Support Engineer - External Contractor** 2006 - 2014

[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.

**IT Support Engineer - External Contractor** 1995 - 2014

Various IT&C Companies

Entrepreneurial activities in the field of IT&C

## Education

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**PhD Level 8 EQF** 2010 - 2013

[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”.

**Engineer with a Bachelor's Degree Level 6 EQF** 1989 - 1994

[Technical University of Cluj-Napoca Romania, Department of Applied Electronics](#)

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

**High School Diploma Level 5 EQF** 1986 - 1988

["Nicolae Bălcescu" High school, Cluj-Napoca Romania](#)

Competences in Mathematics, Physical, Informatics

## Education and Certifications

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**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.

**Engineer with a Bachelor's Degree Level 6 EQF**, Technical University of Cluj-Napoca Romania, Department of Applied Electronics.

**Project Manager Certificate** – accredited CNFPA / ANC, COR: 241919, Certificate Issued by Minister of Labor and Social Justice.

**Training Certificate for AVL InMotion / IPG CarMaker Simulation Software** – AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria

**Training Certificate for AVL Boost RT Simulation Software** – AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria

**Training Certificate for AVL Boost Simulation Software** – AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria

**Training Certificate for AVL Fire Simulation Software** – AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria

**Training Certificate for Puma Operating Single Cylinder Experimental System** – AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria

**Training Certificate for Visioscope, FTIR, Indimodule, Single Cylinder Research Engine and Optical Topworks, Testcell Facilities and Cold Chamber, Maintenance of Puma Devices (test bed experimental).** – AVL List GmbH, Customer Services, Advanced Simulation Technologies, Graz, Austria

**Certificate of Participation Microsoft Retail Training for Windows 7** – Microsoft Romania

## Grants and Fellowships

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

## Skills

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Romanian

  
Native Speaker (C2)

English

  
Working Knowledge (B2)

## Communication Skills

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- 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.

## Managerial Skills

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- 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

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- 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.
- Monitors student performance and resolves student issues with the implementation of academic programs.

## Computer Skills

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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:

- Computer modeling and simulation for electric vehicles, fuel cell vehicles, autonomous vehicles, powertrain concept, energy efficiency, the autonomous driving system algorithm.

- Proficient in computer simulation with software application IPG CarMaker/TruckMaker (stand-alone models or co-simulation process with AVL Cruise interfaces).
- 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).

## Affiliations

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- Member of the Topic Editorial Board Technologies Journal (ISI Impact Factor: 3.600/Q1), ISSN: 2227-7080: [https://www.mdpi.com/journal/technologies/topical\\_advisory\\_panel](https://www.mdpi.com/journal/technologies/topical_advisory_panel)
- Member of the Topic Editorial Board Applied Sciences Journal (ISI Impact Factor: 2.700/Q2), ISSN: 2076-3417: [https://www.mdpi.com/journal/applsci/topical\\_advisory\\_panel](https://www.mdpi.com/journal/applsci/topical_advisory_panel)
- Member of the Topic Editorial Board Multimodal Technologies and Interaction Journal (ISI Impact Factor: 2.500/Q2), ISSN: 2076-3417: [https://www.mdpi.com/journal/mti/topical\\_advisory\\_panel](https://www.mdpi.com/journal/mti/topical_advisory_panel)
- Member of the Topic Editorial Board World Electric Vehicle Journal (ISI Impact Factor: 2.300/Q2), ISSN: 2032-6653: [https://www.mdpi.com/journal/wevj/topical\\_advisory\\_panel](https://www.mdpi.com/journal/wevj/topical_advisory_panel)
- Member of the Editorial Committee American Journal of Biomedical Science & Research, ISSN: 2642-1747: <https://biomedgrid.com/associate-editors.php>
- Reviewer profile: <https://www.webofscience.com/wos/author/rid/M-1004-2016>
- Member of the reviewer board Journal Sensors (ISI Impact Factor: 3.900/Q2), ISSN: 1424-8220: [https://www.mdpi.com/journal/sensors/submission\\_reviewers](https://www.mdpi.com/journal/sensors/submission_reviewers)
- Member of the reviewer board Journal Energies (ISI Impact Factor: 3.200/Q1), ISSN: 1996-1073: [https://www.mdpi.com/journal/energies/submission\\_reviewers](https://www.mdpi.com/journal/energies/submission_reviewers)
- Member of the reviewer board Journal Applied Sciences (ISI Impact Factor: 2.700/Q2), ISSN: 2076-3417: [https://www.mdpi.com/journal/applsci/submission\\_reviewers](https://www.mdpi.com/journal/applsci/submission_reviewers)
- Reviewers for IEEE Access Journal (ISI Impact Factor: 3.900), ISSN: 2169-3536.
- Reviewers for Molecules Journal (ISI Impact Factor: 4.600/Q2), ISSN: 1420-3049.
- Reviewers for Sustainability Journal (ISI Impact Factor: 3.900/Q2), ISSN: 2071-1050.
- Reviewers for Electronics Journal (ISI Impact Factor: 2.900/Q2), ISSN: 2079-9292.
- Reviewers for Atmosphere Journal (ISI Impact Factor: 2.900/Q2), ISSN: 2073-4433.
- Reviewers for Journal of Energy & Environment - Sage (ISI Impact Factor: 4.200), ISSN: 0958-305X.
- Reviewers for Journal of Vehicle Design (ISI Impact Factor: 0.500), ISSN: 1741-5314.
- Reviewers for Recycling Journal (ISI Impact Factor: 4.300/Q2), ISSN: 2313-4321.
- Reviewers for Batteries Journal (ISI Impact Factor: 4.000/Q2), ISSN: 2313-0105.
- Reviewer SAE International Journal of Engines, ISSN: 1946-3936.
- Coordinator of Computer Aided Design Laboratory (B307) of the Faculty of Automotive Engineering, Mechatronics and Mechanics, Technical University of Cluj-Napoca, Romania.
- 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>.
- Titular Member of SIAR Romania (Societatea Inginerilor de Automobile din Romania).
- Titular Member of SIA France (la Société des Ingénieurs de l'Automobile).

## Projects

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- Publishing Agreement with Springer Nature Switzerland AG (114739, July 2020) will prepare a work provisionally entitled: "Autonomous Vehicles for Public Transportation": <https://link.springer.com/book/9783031146770>
- Academic Editor for Special Issue "Autonomous Vehicles Technological Trends" in Journal Electronics: [https://www.mdpi.com/journal/electronics/special\\_issues/AVT\\_electronics](https://www.mdpi.com/journal/electronics/special_issues/AVT_electronics)
- Academic Editor for Special Issue "Autonomous Vehicles Technological Trends II" in Journal Electronics: [https://www.mdpi.com/journal/electronics/special\\_issues/77CGC06Z01](https://www.mdpi.com/journal/electronics/special_issues/77CGC06Z01)
- Academic Editor for Special Issue "Intelligent Sensors for Smart and Autonomous Vehicles" in Journal Sensors: [https://www.mdpi.com/journal/sensors/special\\_issues/\\_autonomous\\_vehicles](https://www.mdpi.com/journal/sensors/special_issues/_autonomous_vehicles)
- Academic Editor for Special Issue "Charging Systems for Electric Vehicles" in Journal Energies: [https://www.mdpi.com/journal/electronics/special\\_issues/Charging\\_Electric\\_Vehicles](https://www.mdpi.com/journal/electronics/special_issues/Charging_Electric_Vehicles)
- Tender book for the purchase of autonomous shuttle buses (Cluj-Napoca, December 2019, SEAP notice #1030385) – Director of the Project.
- Support to Jaspers – Low-Carbon Rolling Stock for Urban Public Transport in Romania, TA2018065 RO JEU – 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 18 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.
- Elaborare studiu de oportunitate (studiu de trafic si justificarea achizitiei prin prisma impactului asupra mediului a noilor autovehicule de transport) pentru achizitia a 19 autobuze electrice (HCL 415/29.03.2018) – 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) – Member of the Team.

**Date:** \_\_\_\_\_

July 20, 2023

