



Cosmina Emilia Corches

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WORK EXPERIENCE

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DEPARTMENT OF AUTOMATION – CLUJ NAPOCA, ROMANIA **LECTURER – 2024 – CURRENT**

Teaching and research activities

- **Lectures**
 - *Reliability and Diagnosis*, Specialization: Automation and Applied Informatics (Satu-Mare), 4th year
- **Laboratories**
 - *Project Management (Ro)*, Automation and Applied Informatics, 4th year;
 - *Web Technologies (Ro)*, Automation and Applied Informatics, 4th year;
 - *Computer Programming (Ro)*, Applied Informatics (Master), 1st year;
 - *Dependability in Cyber-Physical Systems (Eng.)*, Cyber-Physical Systems (Master), 2nd year.

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF AUTOMATION AND COMPUTER SCIENCE – CLUJ NAPOCA, ROMANIA

TEACHING ASSISTANT – 2021 – 2024

Teaching and research activities

- **Laboratories and/or projects**
 - *Project Management (Ro)*, Automation and Applied Informatics, 4th year;
 - *Application-Oriented Software Environments (Ro)*, Automation and Applied Informatics, 4th year;
 - *Computer Programming (Ro)*, Applied Informatics (Master), 1st year.

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF AUTOMATION AND COMPUTER SCIENCE – CLUJ-NAPOCA, ROMANIA

TEACHING ASSISTANT (FIXED-TERM) – 2018 – 2021

Teaching and research activities

- **Laboratories and/or projects**
 - *Project Management (Ro)*, Automation and Applied Informatics, 4th year;
 - *Application-Oriented Software Environments (Ro)*, Automation and Applied Informatics, 4th year;
 - *Computer Programming (Ro)*, Applied Informatics (Master), 1st year.

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DECIDFR DEPARTMENT – CLUJ NAPOCA, ROMANIA

ASSOCIATE LECTURER – 2020 – CURRENT

Teaching activities

- **Laboratory:** *Computer Programming (Ro)* – postgraduate program



PROJECT MEMBER – 2024

Project: "Research and Development for Modeling High-Frequency Signal Propagation through Specific Printed Circuit Board Structures", Keytek Innovation, Romania.

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF AUTOMATION AND COMPUTER SCIENCE – CLUJ-NAPOCA, ROMANIA

PROJECT MEMBER – 2021 – 2022

Internal project: "Increasing Dependability and Security in Cloud-Fog-Edge Systems"

- Research focused on methods for improving dependability and security in Cloud-Fog-Edge architectures.



 **TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF AUTOMATION AND COMPUTER SCIENCE – CLUJ-NAPOCA, ROMANIA**

PROJECT MEMBER – 2018 – 2021

National project: "*Robots and Society: Cognitive Systems for Personal Robots and Autonomous Vehicles*" (72PCCDI/2018)
• Research activities, contribution to the advancement of Cloud-Computing architectures.

● EDUCATION AND TRAINING

2021

PHD IN SYSTEMS ENGINEERING Technical University of Cluj-Napoca

Level in EQF EQF level 8

2018 – 2020

PSYCHO-PEDAGOGICAL TRAINING PROGRAMME Technical University of Cluj-Napoca

2020 Cluj Napoca, Romania

POSTGRADUATE TRAINING PROGRAM: ADVANCED PROGRAMMING Technical University of Cluj-Napoca, DECIDFR Department

2016 – 2018

MASTER'S DEGREE IN SYSTEMS ENGINEERING Technical University of Cluj-Napoca, Faculty of Automation and Computer Science

Level in EQF EQF level 7

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
FRANCEZĂ	B2	B2	B2	B2	B2
ENGLEZĂ	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

communication skills | creativity | teamwork

Organisational / Managerial skills

activity planning and time-management skills | synthesis and analytical skills

Job-related skills

FPGA programming (XILINX family) using ISE WebPack (VHDL) | Programming languages: C, C++, C#, Java, JavaScript, PHP, SQL, VHDL

Reviewer

Reviewer for 9 ISI scientific journals with impact factor, indexed in Web of Science | Reviewer for the international conference SIITME (2023–present)

Research Projects

Member in 3 national research contracts | Member of the Dependable Systems (DeSy) research group