

## PERSONAL INFORMATION Mădălina Adriana CIOTLĂUȘ (MUNTEANU)



## JOB APPLIED FOR POSITION

Associate Professor, Technical University of Cluj Napoca, Civil Engineering, Railways, Roads and Bridges Department

## WORK EXPERIENCE

2013 - prezent

**Lecturer**

Technical University of Cluj Napoca, Civil Engineering, Railways, Roads and Bridges Department

2004 - 2013

**Teaching assistant**

Technical University of Cluj Napoca, Civil Engineering, Railways, Roads and Bridges Department

- Didactic activity: project Railways I and II, Tunnels and Metropolitans, Rock mechanics and hydraulic tunnels, Metro and tram infrastructure, Railway maintenance, Superstructures for railways

2002 - 2004

**Preparator**

Technical University of Cluj Napoca, Civil Engineering, Railways, Roads and Bridges Department

Didactic activity: project and works Railways I and II, Tunnels and Metropolitans, Maintenance of railways, Superstructures for railways

2002 - 2004

**Design engineer – Railways, Roads and Bridges**

R.A.D.P. Cluj Napoca

SC MINESA - INSTITUTE OF MINING RESEARCH AND DESIGN SA

SC DRUMCONSULT SRL

SC SAVEX Intermedieri SRL

## EDUCATION AND TRAINING

2020

**Future program certificate**

Future Program – Build with passion – program to improve the soft skills and teaching methods of university teachers

2019

**General manager of a commercial company**

Graduation certificate issued by the Ministry of National Education  
Seria L Nr 00091512

2016

**Formator**

Graduation certificate issued by the Ministry of National Education  
Seria L Nr 00023444

2014

**Project Manager**

Graduation certificate issued by the Ministry of National Education  
Serial Nr 00340284

- dec. 2012 **PhD in Civil Engineering**  
 Technical University of Cluj Napoca, Civil Engineering  
 Title: New types of superstructures for welded railway track with high resistance at stability  
 Scientific advisor: Prof. Phd. Eng. Gavril Kollo  
 Order of the Ministry of Education, Research, Youth and Sports: 6508/19.12.2012
- 2012 **Design Course CARD I (railway track design software)**  
 • Hamburg, CARD headquarters, Germany
- 2012 **Certificate of Language Proficiency**  
 Technical University of Cluj Napoca, Department of Modern Languages and Communication
- 2006 - 2007 **Pedagogical certificate**  
 Technical University of Cluj Napoca
- 2002 - 2003 **Advanced Studies Diploma**  
 Technical University of Cluj Napoca, Civil Engineering  
 Management of the rehabilitation of communication paths
- 1999 - 2002 **Engineer degree**  
 Technical University of Cluj Napoca, Civil Engineering  
 Railways, Roads and Bridges
- 2002 - 2003 **Certificate for Autocad/Autodesk**  
 Technical University of Cluj Napoca, Faculty of Mechanics
- 1996 - 1999 **Junior engineer Degree**  
 Technical University of Cluj Napoca, Technical University College, Section of Railways, Roads and Bridges
- 1995 **High School Diploma**  
 Liceul de Științe ale Naturii, Cluj Napoca

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Language proficiency certificate, level B2.					
French	B2	B2	B2	B2	B2
German	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

## Communication skills

- good communication skills gained through:
  - participation in teaching and research teams
  - participating in national projects as well as attending conferences and workshops
  - as project manager and team leader
  - symposiums organisation
- skills acquired through the Formator course:
  - trainer skills, education through integrated use of educational technologies
  - emotional control during presentations, non verbal communication
  - presentations building slides, evaluating presentations
  - interacting with audience

## Technical skills and competences

- advanced knowledge in the use of AutoCAD tools for communications ways design
- analysis and design of railways, slopes and tunnels: CARD I, Slope, Prokon, GFas, Soldi Works
- computational intelligence techniques
- good knowledge of Microsoft Office tools (Word, Excel, PowerPoint, Teams)
- good knowledge of Matcad, Matlab
- elementary knowledge of Adobe

## Other skills

Teamwork  
Establishing links with other departments  
Experience in logistics as a result of professional training acquired on the job.  
Experience in project management.

## Driving licence

B

## ADDITIONAL INFORMATION

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- Publications** 59 scientific papers published in Romanian and English, in national and international journals and at national and international conferences, 3 books published in the field of railways and communications, as author and co-author.
- Presentations** Presentations of the Technical University within the Erasmus program, at universities abroad.  
Presentation of Sika Torcret - guest engineer R. Simedrea, for CFDP year IV students  
Presentation Management project rehabilitation tronosn CF corridor IV Pan European – for CFDP students year IV
- Projects** Main technical projects carried out:  
Street design, vertical systematization: Cetatea Fetei residential area, Florești, Cluj  
Road tunnel sizing and feasibility study: Târgu Mureș  
Rehabilitation of DN18 section, Borșa Maramureș  
Consolidation of road body DJ 106F, Sibiu county, bank consolidation works, Beneficiary Alba County Council  
Ocnele Mari, road modernization, Vâlcea county  
Rehabilitation of forest roads 242 D and 247 D, Poșaga, Alba
- Conferences** Co-organizer of the Student Symposium: Student Scientific Communications Session, annually, within the Cluj Napoca Civil Engineering Faculty
- Seminars** Organization of a Seminar on economic topics in the field of rail transport, held by Stefan Marshnig from TUV University Graz Austria for students of the IV year CFDP section, 2012.  
Trainer courses within the Ilbach Workshops 2019-2020.

## Research contracts

Research on improving the bearing capacity of T17 prestressed concrete railway sleepers using zeolite. UTCN – Zeolites Productions SA, No. register UTCN 35600/27.10.2023, No. register DMCDI TN184/27.10.2023. Project manager.

Research on the realization of bridges on arches in Network Arch type solution, No. register UTCN 39029/24.11.2022, No. register DMCDI TN348/25.11.2022, CDI type project. Project member.

Feasibility study for the realization of the investment Green line of public transport using means of transport with electric motor - UTCN - PRIMĂRIA BISTRIȚA, Nr. 4/30.01.2014, No. register UTCN: 2432/31.01.2014. Project member.

CompRail - Improving the energy efficiency of freight trains, increasing the capacity of the railway network and strengthening its role in intermodal transport with the help of GPS systems. IDEA type project, 2009-2012. Project member.

Traffic study in the municipality of Cluj Napoca, 2006,  
Contract no. 54/2005, Beneficiary: Cluj Napoca City Hall. Project member.

Cluj Napoca

08.01.2024

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