



# Curriculum vitae

## Personal information

Last name/First name

**Ciupan Emilia**

Address

Phone number

Nationality

## Professional experience

Between

2009 – 2023

- Associate Professor (2014-ongoing)
- Lecturer (2009-2014)
- Associate Teaching Instructor (2000-2009)

Main activities and responsibilities

Teaching and research

- Applied Informatics – undergraduate level, 2nd year of studies
- Industrial Design and Economic Engineering – undergraduate level, 2nd year of studies
- Artificial Intelligence for Management – undergraduate level, 4th year of studies
- Total Design – MA Degree level, 1st year of studies
- Technology and Innovation – MA Degree level, 2nd year of studies
- Operations Management – MA Degree level, 1st year of studies
- Management of Innovation - MA Degree level, 2nd year of studies
- Development and Use of Relational Databases – postgraduate program
- Programming Complements – postgraduate program

Employer's name and address

Technical University of Cluj-Napoca, Department of Management and Economic Engineering

Between

2006 - 2009

Position

Teacher

Main activities and responsibilities

Teaching and student counseling

Employer's name and address

"Alexandru Borza" Vocational School, Cluj-Napoca

Type or sector of activity

Education

Between

2005 - 2006

Position

Teacher

Main activities and responsibilities

Teaching

Employer's name and address

"Iulian Pop" Economic College, Cluj-Napoca

Type or sector of activity

Education

Between

2004 - 2005

Position

Programmer

Main activities and responsibilities

Database design and management

Employer's name and address

SC Agis Computer SRL, Cluj-Napoca

Type or sector of activity

Distribution

Between 1996 - 2004  
 Position • Coordinator of retail activities (2002-2004)  
 • Computer programmer (1996-2002)  
 Main activities and responsibilities Coordination of the retail activity  
 Design and management of databases  
 Employer's name and address SC Banca Românească SA, Cluj-Napoca  
 Type or sector of activity Financial and insurance activities

Between 1990 - 1996  
 Position Computer programmer  
 Main activities and responsibilities Design and management of databases  
 Employer's name and address SC Turism Transilvania SA, Cluj-Napoca  
 Type or sector of activity Tourism

Between 1984 - 1990  
 Position Analyst programmer  
 Main activities and responsibilities Programming, design and management of databases  
 Employer's name and address Întreprinderea Mecanică, Bistrița  
 Type or sector of activity Manufacturing industry

## Education and training

Year 2022  
 Professional competence acquired **Affiliation with the Doctoral School, the field of Engineering and Management**  
 Name and type of the higher education institution IOSUD – Technical University of Cluj-Napoca

Year 2021  
 Professional competence acquired **Habilitation in the field of Engineering and Management**  
 Title of the Habilitation Thesis Innovative Products and Methods with Applications in Engineering and Management  
 Name and type of the higher education institution Technical University of Cluj-Napoca

Year 2011  
 Qualification/degree acquired **Intellectual Property Counselor**  
 Professional competences acquired Patents  
 Trademarks and geographical indications  
 Name and type of trainer State Office for Inventions and Trademarks, Bucharest

Between 2001-2008  
 Qualification/degree acquired **Ph. D. Degree in Industrial Engineering**  
 Title of the Doctoral Thesis The Integrated Control of Systems Using Open Control Platforms  
 Name and type of the higher education institution Technical University of Cluj-Napoca

Between 1996 - 2001  
 Qualification/degree acquired **BA in Economics**  
 Main subjects studied Specialization: Banks and Stock Markets

Name and type of the higher education institution	Babeş-Bolyai University Cluj-Napoca, School of Economics
Between	1980 - 1984
Degree/qualification acquired	<b>Computer scientist</b>
Main subjects studied	Computer programming Mathematics
Name and type of the higher education	Babeş-Bolyai University, Cluj-Napoca, School of Mathematics

### Scientific activity

#### Publications

1. 58 scientific papers published in journals and conference proceedings
2. 7 books, of which 4 authored individually
3. 5 patents
4. 3 patent applications
5. 107 awards at the international inventions fairs

#### *Representative examples:*

1. Ciupan, E., Cionca, I., Ciupan, M., Câmpean, E. The Optimization of Costs for the Thermoformed Frames From Natural Fiber composites. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Issue Special I, February, 2022. Pag. 57-64.
2. Ciupan, E., Ciupan, C., Câmpean, E.M., Stelea, L., Policsek, C.E., Lungu, F., Jucan, D.C. Opportunities of Sustainable Development of the Industry of Upholstered Furniture in Romania. A Case Study. Sustainability. 2018; 10(9). (impact factor 2.075, yellow area (Q2)).
3. Ciupan, E., Lungu, F., Ciupan, C. ANN Training Method With A Small Number of Examples Used for Robots Control. International Journal of Computers, Communications & Control. 2015; 10(5): 643-653. (impact factor 0.441).
4. Ciupan, E., Lungu, F., Ciupan, C. ANN Method for Control of Robots to Avoid Obstacles. International Journal of Computers, Communications & Control. 2014; 9(5): 540-555. (impact factor 0.441).
5. Ciupan, E., Lăzărescu, L., Filip, I., Ciupan, C., Câmpean, E., Cionca, I., Pop, E. Characterization of a thermoforming composite material made from hemp fibers and polypropylene. The 13th Modern Technologies in Manufacturing, Cluj-Napoca, 12-13.10.2017, MATEC Web of Conferences, Volume 137, pag. 30, Editor EDP Sciences.
6. Ciupan, E., Morar, L., Ciupan, C. Method for Robot Training in View of Obstacle Avoidance. Patent RO 125210/30.05.2016.

Research projects

Representative examples:

1. Project code SMIS 121434, „Establishment of a Center of Excellence in the Field of Composite Material at SC TAPARO SA (TAPCOMP)”, Contract no. 267/22.06.2020 (coordinator).  
Financing source: POC, AP1: CDI to support economic competitiveness and develop businesses, Action 1.2.1, Type of project– Innovative technological project.  
Budget UTCN: 2,165,625 lei.  
Results obtained: 1 patent application, 3 scientific papers, 15 recipes of composite material from natural fibers and polypropelene, 10 recipes of composite material of natural and bicomponent fiber, 8 recipes of composite material from recycled composite grains, the project of a database needed for the selection of the composite material depending on the demands of the beneficiary.
2. Project nr. PN-III-P2-2.1-PTE-2016-0179, „Designing and Optimizing Sofa Sides in View of Their Production through Thermoformation from Natural Fiber-based Composite Materials (SOFACOMP)”, Contract no. 23 PTE/2016 (coordinator).  
Financing source: the state budget.  
Budget UTCN: 835,521 lei.  
Results obtained: 2 patent applications, 12 scientific papers, 4 molds of aluminum for the thermoforming of a number of sofa sides made of composite material, 2 prototypes of sofa sides made of composite material.
3. Research contract no. 4375/20.02.2019, „Research Regarding the Optimization of the Chair Models Office Chair and Skruvsta” (director).  
Financing source: third parties. Value of the contract: 29,155 lei. Results: 1 report of analysis of the simulation for Office Chair, 1 report of analysis of the simulation for Skruvsta.
4. Contract no. 8/2014, „Optimizations of the technical and economic parameters of hydraulic scissor lifts” (director).  
Financing source: third parties. Value of the contract: 46,996 lei.  
Results obtained : 1 scientific paper, an algorithm, and a program for calculating the stress of the component elements of the hydraulic lift, national application for a trademark, technical documentation regarding the realization of the improved lifts, completion of the technical manual for the product hydraulic lift, and completion of specification.

**Professional associations membership**

National Chamber of Counselors in Industrial Property in Romania (CNCPIR).  
Association of the Managers and Economic Engineers in Romania (AMIER).  
Association of Supervisors of Doctoral and Excellence Activities in Management and Business Engineering (ACADEMIA)

**Personal skills and competences**

Mother tongue

Foreign languages known

European Level (\*)

**English**

**French**

Romanian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(\*) [Common European Framework of Reference for Languages](#)

