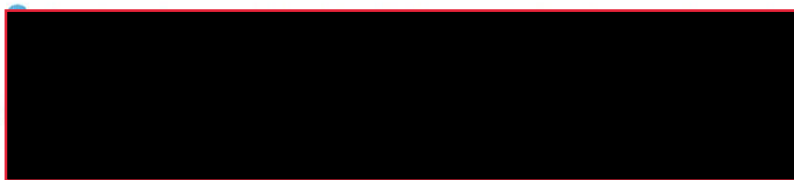


**PERSONAL INFORMATION**

**POP Emanuela Sorina**



**THE JOB FOR WHICH THEY  
APPLY  
THE POSITION**

**ASSOCIATE PROFESSOR, POS. 25**  
Department of Design Engineering and Robotics  
Faculty of Industrial Engineering, Robotics and Production Management  
Technical University of Cluj Napoca

**PROFESSIONAL EXPERIENCE**

02.2017 – present

**Lecturer**

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, Department of Design Engineering and Robotics  
Supporting classes, seminars, projects and laboratory in the disciplines Machine Tools I and II, Creativity and innovation in design, Computer-assisted manufacturing in robotic systems, Ecology and environmental protection, Machine tools and dimensional control.  
**Type or sector of activity** Higher education

11.2015 – 02.2017

**Associate Teaching**

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, Department of Design Engineering and Robotics  
Supporting seminar classes and papers in the disciplines History of Techniques and Creativity and Machine Tools  
**Type or sector of activity** Higher education

01.10.2013-12.12.2015

**Graphic Designer**

SC ESSENTIAL DESIGN SRL, Cluj-Napoca  
Conception and realization of print graphics (creation and implementation): leaflets, posters, catalogs, flyers, press layouts, etc.; Designing layouts for personalized items (diaries, watches, calendars, pens, t-shirts, uniforms, overalls, promotional caps, etc.), as well as for outdoor and indoor ; Finding solutions/ideas for the agency web page/or any web project  
**Type or sector of activity** Graphics / Design

01.02.2012-31.03.2012

**Expert - technical assistant**

18.05.2012-06.08.2012

BABES-BOLYAI UNIVERSITY, Cluj-Napoca  
Participates in the development of documentation for the evaluation of participants  
Member of the evaluation committee and ensures the logistical preparation for the training program  
Organize the documents of the target group by category  
Participates in the preparation of the necessary documents for the issuance of participants' certificates  
**Type or sector of activity** POSDRU/87/1.3/S/63909- Title of the project: Improvement of teaching staff, from pre-university education, who teach the Romanian language to national minorities.

**EDUCATION AND TRAINING**

2010-2014

**DOCTOR in Industrial Engineering**

Technical University of Cluj-Napoca, Faculty of Mechanical Engineering  
Thesis title: Research and contributions regarding the construction of small power wind turbines



- 2004-2009 **ENGINEER in Industrial Engineering, specializing in Industrial Design** 5  
 Technical University of Cluj-Napoca, Faculty of Mechanical Engineering  
 Form study, Innovation and creativity, Industrial Design, Basics of designing competitive products
- 2000-2004 **HIGH SCHOOL DIPLOMA, Mathematics-Informatics specialization**  
 "Emil Racoviță" National College, Cluj-Napoca

**PERSONAL SKILLS**

native language ENGLISH

Other known foreign languages

	UNDERSTANDING		SPEAKING		WRITING
	Obedience	Reading	Participating in the conversation	Oral speech	
English	B2	B2	B2	B2	B2
French	B1	B1	A2	B1	A2

Write the name of the certificate. Write the level, if you know it.

Levels: A1/2: Elementary user - B1/2: Independent user - C1/2: Experienced user  
 Common European Framework of Reference for Foreign Languages

Skills acquired in the workplace

- Construction and kinematics of machine tools;
- Technological possibilities of machine tools;
- Kinematic and organological design of machine tools;
- Using creativity techniques in engineering. History of Technology;
- Intellectual Property Rights;
- SolidEdge v.14 Basic course completion certificate, May 11, 2007, Series A1-SE-0095
- SolidWorks Advance course completion certificate, 40 hours, July 2022
- Graduation of the Solid CAM course, December 15-17, 2021
- Certificate of completion of the GE15 module, Initiation a la Creation d'Entreprise Innovante - Program Franco-Roumain, February-June 2006, Universite de Technologie de Compiegne

Computer skills

- Computer-aided design software: SolidWorks, SolidEdge, AutoCAD, Catia
- Graphics and 3D modeling software: Corel Draw, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, 3D StudioMax
- Microsoft Office, Internet Explorer

Other skills

- Graphics, drawing, interior design

Driver's license

- B

**ADDITIONAL INFORMATION**

**Projects**

**Project director**

1. Research-development-innovation contract, VAT no. 28612/07.10.2021, *Cobot Soldering- Design and realization of the wire fixing device*, Project Director Sldring, Emanuela Pop, total value 53431 lei
2. Contract JAR2022\_050, *Entrepreneurial Skills development for the success In Engineering caReer* (EASIER), Project Director Ş.l.dr.ing. Emanuela Pop, financing value 12740 lei

**Member**

1. Project Transfer to the economic operator - PTE, " *The design and optimization of sofa sides in order to*



- be made by thermopressing from composite materials based on vegetable fibers (acr. SOFACOMP)", No. 23 PTE/2016, Period 2016-2018, Project Director Prof. Dr. Eng. Emilia Ciupan
2. POC type project, *Creation of a center of excellence in the field of composite material at SC TAPARO SA*, SMIS code 121434, Contract no. 267/22.06.2020, total value 43,302,829.12 lei, UTCN budget 2,165,625.00 lei, period 22.06.2020-30.11.2023, conference director Dr. Ciupan Emilia
  3. Project 101061755 — *SCIENCE4FUTURE-II HORIZON-MSCA-2022-CITIZENS-01*, Duration: 01.04.2022-31.01.2024, Project Director Mihai Steopan
  4. CNFIS-FDI-2019-0546, "*Improving the capacity of UTCN's mechanical workshop for the implementation of student internships*", Project Director: Prof. Dr. Eng. Cornel CIUPAN
  5. CNFIS-FDI-2020-0573, "*Creation of stands and products for student practice in the mechanical workshop of UTCN*", Project Director: Prof. Dr. Eng. Cornel CIUPAN
  6. CNFIS-FDI-2021-0249, "*Designing some technological equipment for student practice in the Mechanical Workshop of the Technical University of Cluj-Napoca*", Project director: prof.dr.eng. Cornel CIUPAN
  7. CNFIS-FDI-2022-0198, "*Technological equipment, tools and devices for student practice in the mechanical workshop of the Technical University of Cluj-Napoca*", Project director: prof.dr.eng. Cornel CIUPAN
  8. Project CNFIS-FDI-2023-F-0285, "*Technological Equipment, Tools and Devices for Student Practice in the Mechanical Workshop of the Technical University of Cluj-Napoca*", Project Director: Prof. Dr. Eng. Cornel CIUPAN

### Publications, patents, awards (representative)

#### Publications

1. **Emanuela Pop**, Emilia Campean, Ion Cristian Braga, Ispas Darius, *New product development of a robotic soldering cell using Lean manufacturing methodology*, Sustainability, Volume 14, Issue 21, 14057, 2022, <https://www.mdpi.com/2071-1050/14/21/14057>; WOS:000881528500001 [ISI FI 3.9, Q2];
2. Dobocan, CA; **Pop, E.**; Bogdan, M.; Grec, C., *Design and Modeling a Graduated Dispenser for Metabolic Diseases—Phenylketonuria*, Applied Sciences, Volume 12, Issue 20, 2022, <https://www.mdpi.com/2076-3417/12/20/10672>; WOS:000875891300001 [ISI IF 2.7, Q2].
3. **Emanuela Pop**, *Designing a Flattening, Punching and Trimming Device for Steel Tubes*, Acta Technica Napocensis, series: Applied Mathematics and Mechanics, Vol. 65, Issue 3, Cluj-Napoca, Romania, Editura UT Press, ISSN 1221-5872, 2022, WOS:000889997300010, [ISI IF 0.3];
4. Mihai Ciupan, Claudiu Ioan Rusan, **Emanuela Sorina Pop**, *Numerical calculation of pneumatic losses in a rotary vane compressor*, Acta Technica Napocensis, series: Applied Mathematics and Mechanics, Vol. 66, NO 1S, September 2023, Cluj-Napoca, Romania, Publisher UT Press, ISSN 1221-5872 (published - under WoS indexing), <https://atna-mam.utcluj.ro/index.php/Acta/article/view/2214> [ISI IF 0.3];
5. Muresan, C.; Ciupan, C.; **Pop, E.**; Ciupan, M., *Optimization of the geometric parameters of thermoformed parts*, Acta Technica Napocensis, series: Applied Mathematics and Mechanics, Volume 65, Issue 1, page 143-150, 2022, WOS:000773188500016, [ISI IF 0.3];
6. Cornel Ciupan, Emilia Ciupan and **Emanuela Pop**, *Algorithm for designing a hydraulic scissor lifting platform*, Modern Technologies in Manufacturing (MTEM 2019), 2019, Volume 299, DOI10.1051/mateconf/201929903012, WOS:000568128200035 [ISI Proceedings];
7. 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*. Modern Technologies in Manufacturing (MTEM 2017 - AMATUC), 2017, Volume 137, ISBN:978-2-7598-9027-9, ISSN: 2261-236X, DOI10.1051/mateconf/201713708003, WOS:000426604200079 [ISI Proceedings];
8. Ciupan C., **Pop E.**, Filip I., Ciupan E., Câmpean E., Cionca I., Hereş V. *A new approach of the design process for replacing wooden parts of furniture*, Modern Technologies in Manufacturing (MTEM 2017 - AMATUC), 2017, Volume 137, ISBN:978-2-7598-9027-9, ISSN: 2261-236X, DOI10.1051/mateconf/201713706002, WOS:000426604200066 [ISI Proceedings];
9. **Emanuela POP**, Mihai STEOPAN, Cornel CIUPAN, Ioan FILIP, *Decreasing the mass of a sofa side made of composite materials based on vegetable fibers*, Acta Technica Napocensis, series: Applied Mathematics and Mechanics, Vol. 61, Issue 4, Cluj-Napoca, Romania, UT Press Publishing House, pp 775-780, ISSN 1221-5872, 2018, WOS:000453442200032;
10. Cornel Ciupan, Mihai Steopan, **Emanuela Pop**, Emilia Campean, Ioan Filip, Emilia Ciupan, *Comparative analysis of different ribs used to rigidize the resistance structure of a sofa side made of composite materials based on vegetable fibers*, Acta Technica Napocensis, series: Applied Mathematics and Mechanics, Vol. 61, Issue 1, Cluj-Napoca, Romania, UT Press Publishing House, pp 39-44, ISSN 1221-5872, 2018, WOS:000428903500006;

**Books**

1. **Emanuela Sorina Pop** , *Machine Tools* , ISBN 978-606-020-738-2, Mega Publishing House, Cluj-Napoca, 2023, (225 pg.);
2. Corina Adriana Dobocan, **Emanuela Sorina Pop** , *Designing industrial products using modern methods in order to reduce water consumption in the manufacturing process* , ISBN 978-606-020-739-9, Mega Publishing House, Cluj-Napoca, 2023, (114 pg.) .
3. **Emanuela Pop** , Cornel Ciupan, Emilia Câmpean, Mihai Steopan, *Mașini Unelte: Laboratory work guide* , UTPress, ISBN 978-606737-213-7, on CD, Cluj-Napoca, 2016, (125 pg.);
4. Cornel Ciupan- coordinator, **Emanuela Pop** , Mihai Damian, Cristina Miron Borzan, Mihai Steopan, Liviu-Iacob Scurtu, Grigore Marian Pop, Alexandru Popan, Razvan Curta, Nicolae Panc, Mihai Ciupan, *Guide for student practice in the mechanical workshop* , ISBN 978- 606-737-418-6, UT Press Publishing House, Cluj-Napoca, 2019, (220 pg.);
5. **Emanuela Pop** , *Creativity and innovation in design* (course support in electronic format), (150 pg.).

**PATENTS**

1. **Patent** - Ciupan Cornel, Steopan Mihai, **Pop Emanuela Sorina** , *Reconfigurable gearbox* . R0132365 (B1) 2023-06-30
2. Safriuc M., Ciupan C., **Pop E.**, *Traffic signaling device for motor vehicles and special situations and its operating method* , Patent application number: RO A/10058/2017
3. Ciupan C., Filip I., Ciupan E., Steopan M., **Pop E.**, Câmpean E., Cionca I., Hereș V., *Design method of the parts of the structure of an upholstered furniture* , , Patent application number: RO A/10065/12.10.2017

**AWARDS**

1. **Diploma and Gold Medal** , Ciupan C., Ciupan E., **Pop E.** , International Exhibition INVENTCOR 3rd edition, 15-17.12.2022, Deva, Stand for Thermoplastic Samples From Thermoplastic Composite Materials
2. **Diploma and Gold Medal** , Ciupan E., Filip I., Ciupan M., **Pop E.** , International Exhibition INVENTCOR 3rd edition, 15-17.12.2022, Deva, Characterization Method of Thermoplastic Composite Materials Made by CAFT Technology
3. **Diploma and Gold Medal** , Ciupan E, **Pop E** , Campean E., International Exhibition INVENTCOR 3rd edition, 15-17.12.2022, Deva, Thermoforming Process of Samples Made of Composite Materials with Plant Fibers and Polypropylene
4. **Young Hope Award** , Algorithm for the development of mechatronic products, **Emanuela Pop** , PatriotFest. I innovate for Romania!, Bucharest, 2019, <https://www.patriotfest.ro/>
5. **Diploma of excellence and special award of BUASVM "King Michael I of Romania "** , Timisoara, "Method of designing the parts of the structure of upholstered furniture", The 23rd International Exhibition of Inventics "INVENTICA" 2019, Iasi
6. **Diploma of excellence with medal State University of Medicine and Pharmacy "NICOLAE TESTEMIȚANU"** from the Republic of Moldova, "Method of designing the parts of the structure of an upholstered furniture", EIS "INFOINVENT" 2019, Chisinau
7. **Award of the National Public Health Center of the Republic of Moldova** , "Method of designing parts of the structure of upholstered furniture " , INFOINVENT, Chisinau, 2017
8. **Diploma of excellence and gold medal with special mention** , International Invention Fair PRO INVENT XV Edition, 2017, Cluj-Napoca, Reconfigurable gearbox, Cornel Ciupan, Mihai Steopan, **Emanuela Pop**
9. **Best Presentation** 2016 International Conference on Production Research, Regional Conference- Africa, Europe and the Middle East and 4th International Conference on Quality and Innovation in Engineering and Management, July 25th-30th, 2016, Cluj-Napoca
10. **IWIS Medal** (International Warsaw Invention Skow), "Automatic turf irrigation system Rain Xpert", Emanuela Souca (Pop) 9th PROINVENT exhibition, Cluj-Napoca, 2011

