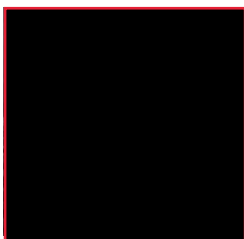


## PERSONAL INFORMATION

Borzan Cristina Ștefana



## WORK EXPERIENCE

2018 - Prezent

**Lecturer**

Technical University of Cluj-Napoca, B-dul. Muncii No.103-105, Cluj-Napoca, Romania, Faculty of Industrial Engineering, Robotics and Production Management, Department of Manufacturing Engineering

Website: <http://www.utcluj.ro>

Main Subjects: Manufacturing Technologies, Logistics, Basics of Industrial Engineering, Design of Cutting Tools.

**Business or sector** Manufacturing engineering

2015-2018

**Teaching Assistant**

Technical University of Cluj-Napoca, B-dul. Muncii No.103-105, Cluj-Napoca, Romania, Faculty of Machine Building, Department of Manufacturing Engineering

Website: <http://www.utcluj.ro>

Main Subjects: Manufacturing Technologies., Logistics, Manufacturing Basics.

**Business or sector** Manufacturing engineering

2014 - 2015

**Associate Teacher**

Technical University of Cluj-Napoca, B-dul. Muncii No.103-105, Cluj-Napoca, Romania, Faculty of Machine Building, Department of Manufacturing Engineering

Website: <http://www.utcluj.ro>

Main activities and responsibilities: Manufacturing Technologies, Manufacturing Basics.

**Business or sector** Manufacturing engineering

2012-2013

**Research Assistant**

Technical University of Cluj-Napoca, B-dul. Muncii No.103-105, Cluj-Napoca, Romania, Faculty of Machine Building, Department of Manufacturing Engineering

Project title: "New biocompatible materials for personalized implants made by SLS and SLM"; CNCSIS No. 5/2010

Website: <http://www.biomapim.utcluj.ro>

Main activities and responsibilities

- Research activities
- Dissemination of research results - participation in national and international conferences and seminars organized within the project and the publication of scientific articles in conference proceedings;
- Participate in project reports preparation.

**Business or sector** Manufacturing engineering

EDUCATION AND TRAINING

2011 - 2014

**PhD Studies**

Technical University of Cluj-Napoca, Faculty of Machine Building,  
Department of Manufacturing Engineering

Title of PhD thesis: "Theoretical and experimental research regarding manufacturing by selective laser sintering of custom implants from biocompatible materials",

<http://doctorat.utcluj.ro:8080/Doctoranzi/?jsessionid=F319069B15F56554BCF793A35A5607AF?0>

Certificate: PhD Diploma in Industrial Engineering

2009-2011

**Master Studies**

Technical University of Cluj-Napoca, Faculty of Machine Building,  
Department of Manufacturing Engineering

Specialization: Virtual Engineering and Competitive Manufacturing (in English Language)

Title of Master Thesis: „Manufacture of Custom Implants from Biocompatible Materials”

Certificate: Master Diploma in Industrial Engineering

2009

**Graduation Certificate of the Pedagogical Training Department**

Technical University of Cluj-Napoca, Teaching Staff Training Department

Psychology, pedagogy, teaching methodology

2005-2009

**Bachelor of Science Degree in Engineering, head of promotion**

Technical University of Cluj-Napoca, Faculty of Machine Building,

Specialization: Industrial Economical Engineering

Title of Diploma Project:

- Technical Part: “Experimental research regarding Rapid Prototyping technologies for manufacture of customized implants”

- Marketing Part: “Educational Marketing research”

Certificate: Bachelor of Science Diploma, *head of promotion*

2000-2004

**High School**

High School "Nicolae Bălcescu", Cluj-Napoca

Profile: Mathematics – Informatics

Certificate: High School Diploma

PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B1	B2
	Certificate of Language Proficiency				

**Job-related skills**

- Good knowledge in Selective Laser Sintering / Selective Laser Melting Technologies, Conventional Manufacturing Technologies;
- Additive Manufacturing (AM) technologies for prototypes and small series production
- Didactic, communication, teamwork skills.

**Computer skills**

- CAD Software: SolidWorks, AutoCad, Catia;
- Simulation software and finite element analysis: SolidCAST;
- WinQSB Software for best decision-making in logistics;
- Microsoft Office™, MathCad, SPSS, Pascal, C++, FoxPro, Web Pages Generator (HTML).

**Other skills** Vocational Certificate of Education as Trainer;  
Vocational Certificate of Education as Project Manager;  
Vocational Certificate of Education, in „SPSS Programme”

**Driving licence** - B

## ADDITIONAL INFORMATION

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**Publications** Scientific papers: 63 scientific articles published in specialized journals and volumes of the various international conferences.  
Author and Co-author of 9 scientific books.

**Projects** Director:  
Contract de cercetare-dezvoltare-inovare, Nr. 18719 din data de 21.06.2022, „Cercetări privind optimizarea stocurilor și determinarea prețului psihologic a unor produse noi.”, value 27500 lei;

Assistant Manager:

- Project on Secondary Education (ROSE), “Supporting access to an engineering career of students in risk situations from the Faculty of Machine Buildings-ACCESTEHNIC”, Grant Agreement no. 29 / SGU / NC / I / 17.10.2017, contract no. 40997/09.11.2017, period: 2017-2020, Director of the project: Prof.dr.ing.ec. Bacali Laura.

Member in:

- ERASMUS KA 202 project - „3D and Virtual Reality Technologies for VET” - 3D4VET – [www.3d4vr.eu](http://www.3d4vr.eu) – Project Reference: 2019-1-HR01-KA202-061006 – „Cooperation for innovation and the exchange of good practices”, Action type: Strategic Partnerships for vocational education and training” (2020-2022), responsible from UTCN: Conf.dr.ing. Razvan Pacurar, budget UTCN: 18.700 EUR;
- 21-COP-0019 Contract - “European network for 3D printing of biomimetic mechatronic systems” - EMERALD (2022-2023) founded by SEE Grants, director of the project: Conf.dr.ing. Razvan Pacurar, (buget total proiect - 198.810 EUR / UTCN budget: 57.774 EUR);
- Biomapim Project, Contract type: IDEI nr.5/2010 „Noi materiale biocompatibile destinate implanturilor personalizate fabricate prin SLS și SLM- BIOMAPIM” – Director of the project: Prof. Petru Berce, period 2010-2013, budget 3.676.114, 11 lei ;
- BRIDGE Contract, no.99/2016, cu titlul “Dezvoltarea posibilităților de prelucrare a materialelor compozite avansate prin tăiere de precizie cu jet de apă”, Director of the project: Popan Alexandru, period 2016-2018, budget 460.000 lei;
- ERASMUS KA 226 project - “Boosting the scientific excellence and innovation capacity of 3D printing methods in pandemic period” - BRIGHT Project Reference: 2020-1-RO01-KA226-HE-095517, “Cooperation for innovation and the exchange of good practices”, Action type: Strategic Partnerships for Digital Education Readiness” (2021-2023), Director of the project: Conf.dr.ing. Razvan Pacurar (total budget 187.500 EUR / UTCN budget: 32.367 EUR);
- H2020 Project, contract nr. GA 691787, Boosting the scientific excellence and innovation capacity in Additive Manufacturing of the TUC-N (AMaTUC), period: 2016-2018, budget 501.495 euro, Director of the project: Prof.dr.ing. Bălci Nicolae, <http://www.amatuc.com/>
- CNFIS-FDI-2019-0546 Contract, „Îmbunătățirea capacității atelierului mecanic al UTCN pentru desfășurarea stagiilor de practică ale studenților”, Director of the Project: Prof.dr.ing. Cornel Ciupan, june-december 2019;
- CNFIS-FDI-2020-0573 Contract, „Realizarea unor standuri și produse pentru practica studenților în atelierul mecanic al UTCN”, Director of the Project: Prof.dr.ing. Cornel Ciupan, june-december 2020;
- CNFIS-FDI-2021-0249 Contract, „Echipamente tehnologice pentru practica studenților în cadrul Atelierului mecanic al Universității Tehnice din Cluj-Napoca”, Director of the Project: Prof.dr.ing. Cornel Ciupan, june-december 2021;
- CNFIS-FDI-2021-0198 Contract, „Echipamente tehnologice, scule și dispozitive pentru practica studenților în cadrul Atelierului mecanic al Universității Tehnice din Cluj-Napoca”, Director of the Project: Prof.dr.ing. Cornel Ciupan, june-december 2022;
- CNFIS-FDI-2023-F-0285 Contract, „Echipamente tehnologice, scule și dispozitive pentru practica studenților în atelierul mecanic al Universității Tehnice din Cluj-Napoca”, Director of the Project: Prof.dr.ing. Cornel Ciupan, june-december 2023.

**Affiliations**

- Member of the Slovak Metal Science Society;
- Member of AUIF (Asociația Universitară de Ingineria Fabricației).
- Member in Scientific Committee of International Conference Mobility IoT..since 2017.
- Member in Scientific Committee of International Conference Modern Technologies in Manufacturing MTeM.

**Awards**

- **Romanian Academy Award, Henri Coanda 2015.**
- 1<sup>st</sup> prize at the Student Scientific Circle in the field of Engineering and Management, national phase, "Marketing" section, Iasi, May, 2009.

**ANNEXES**

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- list of documents annexed to the CV.
- copies of degrees and qualifications.
- list of publications or research.

Date: 29.11.2023

Signature

