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WORK EXPERIENCE

INDEPENDENT INTERNATIONAL EVALUATOR – FFG - AUSTRIAN RESEARCH PROMOTION AGENCY – 2025 – WIEN, AUSTRIA

Business or Sector: Professional, scientific and technical activities | **Address:** Sensengasse 1, 1090, Wien, Austria | **Website:** <https://www.m-era.net>

- evaluation of research project for funding

INTERNATIONAL AND EXTERNAL REVIEWER – LUXEMBOURG NATIONAL RESEARCH FUND – 2025 – LUXEMBOURG, LUXEMBOURG

Business or Sector: Professional, scientific and technical activities | **Address:** Maison du Savoir (8th floor) 2, place de l'Université L-4365 Esch-sur-Alzette, L-1017, Luxembourg, Luxembourg | **Website:** <https://www.fnr.lu>

- evaluation of research project funded

EXPERT – EUROPEAN RESEARCH EXECUTIVE AGENCY – 2023 – BRUSSELS, BELGIUM

Business or Sector: Professional, scientific and technical activities | **Address:** Boulevard Simon Bolivar 34, 1000, Brussels, Belgium | **Website:** <https://rea.ec.europa.eu>

- evaluation of research projects for funding

EXPERT – FFG – AUSTRIAN RESEARCH PROMOTION AGENCY – 2016 – 2019 – WIEN, AUSTRIA

Business or Sector: Professional, scientific and technical activities | **Address:** Sensengasse 1, 1090, Wien, Austria | **Website:** <https://www.m-era.net>

- evaluation of research projects for funding

PROFESSOR (2017 – PRESENT), ASSOC. PROFESSOR (1998 – 2017), LECTURER (1993 – 1998), ASSISTANT (1990 – 1993) – TRANSILVANIA UNIVERSITY OF BRASOV – 1990 – Current – BRASOV, ROMANIA

Business or Sector: Education | **Department:** Materials Engineering and Welding | **Address:** B-dul Eroilor nr. 29, 500036, Brasov, Romania | **Website:** <https://www.unitbv.ro>

- education
- research

PROCESSING ENGINEER MECHANICAL ENTERPRISE – MECHANICAL ENTERPRISE – 1985 – 1990 – CODLEA, ROMANIA

Business or Sector: Manufacturing | **Address:** Str. Rampei no. 1, 505100, Codlea, Romania | **Website:** <https://www.mecod.ro>

- maintenance engineer
- processing engineer
- design engineer

- production tracking engineer

● EDUCATION AND TRAINING

2016 Brasov, Romania

HABILITATED DOCTOR Transilvania University of Brasov, Faculty of Materials Science and Engineering, Romania

- habilitation as PhD supervisor, in the Industrial engineering field

Address B-dul Eroilor nr. 29, 500036, Brasov, Romania | **Website** <https://www.unitbv.ro> |

Field of study Engineering, manufacturing and construction |

Thesis Contributions regarding the competitiveness growth of the alloy steels tools

03/1999 – 04/1999 Bucharest, Romania

BUSINESSES VALUATOR National Association of Romanian Valuers

- businesses valuations, economics and management skills

Address B-dul Eroilor nr. 29, 500036, Bucharest, Romania | **Website** <https://www.anevar.ro/>

1993 – 1997 Brasov, Romania

PHD TITLE IN THE FIELD OF ENGINEERING SCIENCES Transilvania University of Brasov

- cutting tools design
- plastic deformation
- thermomechanical treatments

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Field of study Engineering, manufacturing and construction | **Level in EQF** EQF level 8 |

Thesis Contributions to obtaining the cutting tools by plastic deformation

1980 – 1985 Brasov, Romania

BACHELOR DEGREE DIPLOMA, MECHANICAL ENGINEER – MACHINE-TOOLS SPECIALIZATION University of Brasov, Faculty of Machine Construction Technology

- maintenance and management of the machine tools
- skills for the machine tools design and development

Address B-dul Eroilor nr. 29, 500036, Brasov, Romania | **Website** <https://www.unitbv.ro> |

Field of study Engineering, manufacturing and construction | **Level in EQF** EQF level 7

1975 – 1979 Brasov, Romania

HIGH SCHOOL DIPLOMA Lyceum of mathematics and physics nr. 1

- hardware and software knowledge
- programming languages for computers

Address Str. Calea București, nr. 75, 500326, Brasov, Romania | **Website** <https://moisilbrasov.ro> |

Field of study Information and Communication Technologies | **Level in EQF** EQF level 4

● MANAGEMENT EXPERIENCE

2012 – 2020

Vice-Dean Faculty of Materials Science and Engineering

Responsibilities regarding the coordination of research and information technology activities

2004 – 2012

Vice-Head Department of Materials Engineering and Welding

Managing day to day teaching and research activities of the department and leading the strategic planning and decision making for the department

2003 – 2022

Head Authorized Training Center NX (Unigraphics) and Solid Edge

Managing the activities of the training center

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
ITALIAN	B2	B2	B2	B2	B2
FRENCH	A2	A2	A2	A2	A2

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

● COMMUNICATION AND INTERPERSONAL SKILLS

Active listening, trust, respect, empathy, emotional intelligence, non-judgement

Good communication skills and team spirit acquired as faculty council member, tutor, vice dean, research projects manager and through collaboration with the industrial environment

● MANAGEMENT AND LEADERSHIP SKILLS

Analytical thinking, ability to plan and prioritize tasks, analysis and synthesis skills, creative thinking, consistent and rational attitude

The mentioned competences were acquired by participating in continuous training courses, but also during professional activity (vice dean, projects manager, CAD training center coordinator or postgraduate courses in the field of occupational safety and health).

● DIGITAL SKILLS

Windows

PC operation (installation of Windows and antivirus protection)

Very good knowledge of Windows operating system and of the Microsoft Office package

Internet

Browsing internet

Good use of communication programs (Skype, Zoom, Webex)

CAD

Solid Edge

Finite Element Analysis

● DRIVING LICENCE

Driving Licence: AM

Driving Licence: B1

Driving Licence: B

● ADDITIONAL INFORMATION

Publications

- 1 book published in an international publishing house
- 8 books published in national publishing houses
- 14 articles published in ISI indexed journals
- 6 articles published in ISI Proceedings
- 8 articles published in BDI indexed journals
- 32 articles published in national journals

Projects

- 1 international project (grant) won through competition as director
- 2 national projects (grants) won through competition as director
- 10 national projects – team member

Presentation

- 47 presentations at national and international conferences.

Citations

- h-index – 5 Web of Science – Clarivate Analytics
- h-index – 5 Scopus

● APPENDICES

Recent publications

Catana D-I., Brus D-I, Pop M-A, Luca M-A – Influence of 3D printing parameters on the mechanical properties for numerical simulation of the Poly(Lactic Acid), *Polymers*, Vol. 17, Issue 17, 2025, pp. 1-22, ISSN 2073-4360, WOS: 001569720000001, DOI:10.3390/polym17172271

Catana D-I., Brus D-I, Pop M-A – Modelling influence on bending behaviour simulation of the Poly(Lactic Acid) structures, 3D printed, *Polymers*, Vol. 15, Issue 4, 2023, pp. 1-12, ISSN 2073-4360, WOS:000940905500001, DOI: 10.3390/polym15040960

Catana D., Pop M-A, Brus D-I – Comparison between tests and simulations regarding bending resistance of 3D printed PLA structures. *Polymers*, Vol. 13, Issue 24, 2021, pp. 1-11, ISSN 2073-4360, WOS:000737468300001, DOI:10.3390/polym13244371

Catana D., Pop M-A, Brus D-I – Comparison between the test and simulation results for PLA structures 3D printed, bending stressed. *Molecules*, Vol. 26, Issue 11, 2021, pp. 1-13, ISSN 1420-3049, WOS:000660469500001, DOI: 10.3390/molecules26113325

Milosan I, Bedo T., Gabor C., Munteanu D.,...Catana D., Varge B. – Characterization of aluminium alloy-silicon carbide functionally graded materials developed by centrifugal casting process. *Applied Sciences*, Vol. 11, Issue 4, 2021, pp. 1-14, ISSN 2076-3417, WOS:000632102500001, DOI: 10.3390/app11041625

Catana D., Pop M-A. – Studies regarding simulation process to static loading of the structure obtained from polylactic acid (PLA) 3D printed. *Journal of Applied Polymer Science*, Vol. 138, Issue 6, February 10, pp. 1-12, 2021, ISSN 0021-8995, WOS:000575801800001, DOI: 10.1002/app.50036

Catana D., s. a. – Aspects of thermal transfer in heat treatment of alloy steels using concentrated solar energy. *Journal of Thermal Analysis and Calorimetry*, Vol. 138, nr. 4, pp. 2541-2553, 2019, ISSN 1388-6150, WOS:000499703500017, DOI: 10.1007/s10973-019-08525-w