europass Curriculum Vitae

PERSONAL INFORMATION

Păcurar Răzvan-Ioan

Manufacturing Engineering Department (sala M205B), B-dul Muncii 103-105, postal code 400641, Cluj-Napoca, Romania

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Gender Male | Date of birth 20/02/1979 | Nationality Romanian

PROFESIONAL EXPERIENCE

Dates	2016 - present
Occupation or position held	Associate Professor
Main activities / responsibilities	Teaching and research activities
Name and address of employer	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Type of business / sector	Educational
Activity	

Dates	2012 - 2016
Occupation or position held	Lecturer
Main activities / responsibilities	Teaching and research activities
Name and address of employer	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Type of business / sector	Educational
Activity	

Dates	2006-2012
Occupation or position held	Teaching Assistant
Main activities / responsibilities	Teaching and research activities
Name and address of employer	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România, tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Type of business / sector	Educational
activity	

EDUCATION AND TRAINING

Dates	2022
Title of qualification awarded	Habilitation in the industrial engineering domain, with the habilitation thesis entitled “Applications of 3D printing technologies in the industrial and medical field”
Name of the organization providing education and training	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România, tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Main disciplines studied / occupational skills covered	PhD thesis coordinating in the field of Industrial Engineering
Level in national or international classification	Doctoral school - affiliation at TUCN. Main research direction developed: 3D printing technologies with applicability in the industrial and medical fields

Dates	2010-2013
Title of qualification awarded	Post-doctoral certificate in the industrial engineering domain reached within 4D-POSTDOC project for "Research on the manufacturing of metallic parts made of Selective Laser Melting (SLM) technology " theme
Name of the organization providing education and training	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România, tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Main disciplines studied / occupational skills covered	Theoretical and experimental courses in the field of rapid manufacturing of metallic prototypes using selective laser melting method
Level in national or international classification	Post-doctoral studies

Dates	2003-2009
Title of qualification awarded	PhD title in the Industrial Engineering domain for the PhD thesis entitled „Theoretical and experimental research regarding the manufacturing of the active elements of moulds made by selective laser sintering (SLS) technology"
Name of the organization providing education and training	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România, tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Main disciplines studied /	Theoretical and practical courses in the field of Rapid Prototyping technologies using LOM, FDM, SLS methods and Rapid Tooling using Vacuum Casting, Metal Spraying and Investment casting technologies
Level in national or international classification	Doctoral studies

Dates	2002-2003
Title of qualification awarded	MSc title in the field of Computer Aided Design for Modern Manufacturing Processes
Name of the organization providing education and training	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România, tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Main disciplines studied / occupational skills covered	Theoretical and practical courses in the field of CAD/ CAM/ CAE, with applicability in the field of modern manufacturing technology methods (RP, CNC, etc.)
Level in national or international classification	Post university studies

Dates	1997-2002
Title of qualification awarded	BSc title in the Industrial Engineering and Management Domain, Manufacturing Engineering specialisation
Name of the organization providing education and training	Technical University of Cluj-Napoca, Memorandumului street, no. 28, 400114, Cluj-Napoca, România, tel. +40-264 401 200, 401248, tel./fax +4 0264 592 055 Website: http://www.utcluj.ro/
Main disciplines studied / occupational skills covered	Theoretical and practical courses in the field of Computer Aided Design, Computer Aided Manufacturing, Computer Programming, Manufacturing Engineering technologies (CNC, Non-conventional technologies, etc), Metal forming, Technological optimization, Quality Assurance, etc.
Level in national or international classification	Bachelor studies

PERSONAL SKILLS

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Oral speech	
English	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Social skills and competences

Capable to easily adapt and work in a multicultural team: in the period 2007-2008, I have been involved in a FP6 international research contract, coordinated by 3Shape company from Copenhagen in Denmark. For a short period of time I was working at the Technical University of Denmark (DTU), cooperating within specific research tasks with several partners involved in this project, from denmark, Italy, England and Portugal.

Organizational / management skills and competences

I was and I am still involved in different research projects, as Director or Member, being responsible with the coordination and collaboration with different partners from Romania and abroad, regarding different tasks related to My PhD topic (Additive Manufacturing domain). I was involved in the period 2010-2013 in a Postdoctoral program financed by EU (http://ctmtc.utcluj.ro:8080/sites/fordoc/default.aspx)

Technical and technological skills and competences

Excellent skills related to the use and the optimization of different types of technological methods in the Additive Manufacturing domain (such as Selective Laser Melting, Selective Laser Sintering, etc), Rapid Tooling methods, Reverse engineering Techniques, Finite element methods, etc., used for the realization of personalized products, with applicability in the industrial and medical domain.

Computer skills and competences

The use of Computer Aided Design programs, such as AutoCAD, SolidWorks, ProEngineer
The use of Specific Computer Control Programs required for different type of equipment items from Additive Manufacturing domain, such as FDM (QuickSlice), SLS (DTM Sinterstation), SLM (Magics, Autofab) etc.
The use of finite element analysis programs (CosmosWorks, ANSYS, ABAQUS, LS-DYNA, MoldFlow etc..)

ADDITIONAL INFORMATION

Publications

88 articles, from which 31 indexed ISI and 39 articles indexed in international databases (BDI)
15 books published, from which 8 first / unique author, 4 laboratory work / project guides, 3 scientific books published as editor in international publishing houses.

Research projects

14 research projects, from which, 1 - project -TD-type (CNCSIS) gained by national competition (project director), 1 international project with SMEs (BIZZCOM company of Slovakia) (project director), 1 ERASMUS KA 226 project entitled “Boosting the scientific excellence and innovation capacity of 3D printing methods in pandemic period” - BRIGHT- Project Reference: 2020-1-RO01-KA226- HE-095517 (project director), 1 cooperation project for higher education and research - ESAYEP (financed by Norwegian Grants through the SEE mechanism) - “European Network for 3D Printing of Biomimetic Mechatronic Systems (project director), 1 ERASMUS KA 202 project (project responsible on behalf of TUCN),5 projects gained by national competition (POSDRU, CNCSIS - A type, CEEX, etc) (member in the research team), 3 projects gained by international competition (FP 6, FP 7, HORIZON 2020)

Affiliations

Member of the Manufacturing engineering university association and of the European scientific research network RAPIMAN - Rapid Prototyping and Innovative Manufacturing Network

Reviewer	Reviewer of Materials & Design journal (Elsevier), Materials (ISI), Applied Sciences,(ISI), Metals (ISI), Polymers (ISI), Coatings (ISI), Journal of Mechanics Engineering and Automation (David Publishing House), International Journal of Mechanical Engineering and Automation (Ethan Publishing company) - BDI
Member of scientific committees or organizing committees of different international conferences	Member of the scientific committee at the Innovative Manufacturing Engineering - IMANE conference organized by the Technical University „ Gheorghe Asachi from Iaşi in 2014 and 2021, IMANE 2015 (Technical University of Chisinau, Moldavian Republic), Innovative Manufacturing Engineering & Energy International Conference Kallithea, Chalkidiki, Greece - IMANEE 2016, Computing and Solutions in Manufacturing Engineering, COSME 2016 and 2020, Brasov, Manufacturing Technologies (ICAMaT 2022) - Bucharest, Manufacturing 2022 conference - Poznan (Poland), member of the organizing committee at Modern Technologies in Manufacturing (MTeM) conference organized by the Manufacturing Engineering Department in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2019 and 2023.
Other specialization / qualification certificates	- certificates in the field of micro-nano technologies, obtained in 2006 and 2009 at the University of Neuchatel and the Swiss Foundation for Research in Microtechnology from Neuchatel (Switzerland) - certificate in the field of additive manufacturing using the MCP Realizer II SLM 250, selective laser melting equipment obtained in 2008, MCP HEK Tooling GmbH company from Germany - certificate in the field of additive manufacturing using the SLM 125 HL and SLM 250 HL equipment, obtained in 2011, SLM Solutions GmbH company from Germany - certificate in the field of additive manufacturing technologies, with applicability in the medical domain, obtained in 2008, at the Universitaty of Maribor from Slovenia - certificate in the field of quality assurance, obtained in 2007 and 2008 from the Technical University of Denmark (Danmarks Tekniske Universitet - DTU) - Graduate certificate for teaching aptitudes, Department for Education and Training of the Academic Staff, 2003, Technical University of Cluj-Napoca, România.

Cluj-Napoca, June 2023

Associate Prof. Dr. Eng. Razvan Pacurar