

Cristina PUPĂZĂ

OCCUPATIONAL FIELD **Professor Dr.-Ing. Habil - Higher education**

WORK EXPERIENCE

Since 2016 **Professor**
University POLITEHNICA of Bucharest, Faculty of Industrial Engineering and Robotics, Department of Robots and Manufacturing Systems, 313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania, www.upb.ro
Business or sector: Higher education & Research

1997-2016 **Associate Professor**
University POLITEHNICA of Bucharest, Faculty of Industrial Engineering and Robotics, Department of Robots and Manufacturing Systems, 313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania, www.upb.ro
Business or sector: Higher education & Research

1992-1997 **Lecturer**
University POLITEHNICA of Bucharest, Faculty of Industrial Engineering and Robotics, Department of Robots and Manufacturing Systems, 313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania, www.upb.ro
Business or sector: Higher education & Research

1985-1992 **Assistant**
University POLITEHNICA of Bucharest, Faculty of Industrial Engineering and Robotics, Department of Robots and Manufacturing Systems, 313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania, www.upb.ro
Business or sector: Higher education & Research

1984-1985 **Design Engineer**

IPROMET – Engineering & Designing Institute for the Iron and Steel Industry, Machinery Department, 20A Constructorilor Boulevard, Bucharest 6, Romania, RO – 060512

Business or sector: Design & Research

Design engineer and group coordinator in projects regarding mechanical equipments: • Device for oxygen blowing, • Robot for fire-proof bricks manipulation, • Ceramic Materials Mixer, • Oxygen for furnace feeding system, • Flame cutting systems

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1983-1984 **Production Engineer**

Enterprise for Special Steel, 9 - 11 Gaesti Avenue, Targoviste, Romania, RO – 130087
Business or sector: Production
Machine tool commissioning and maintenance for: • Wire machining systems and • External grinding machines

EDUCATION AND TRAINING

2016 Habilitation Thesis: Advanced Computer Aided Technics in Industrial Engineering
Industrial Engineering and Management field,
OM No. 5343/29.09.2016
Faculty of Industrial Engineering and Robotics Doctoral school
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

2009 Certificate of training course: Contact technology in ABAQUS – SIMULIA
SIMULIA ABAQUS Europe BV,
Gaetano Martinolaan 95, P.O. Box 1637, 66201 BP Maastricht, The Netherlands at CYBERNETICS International SRL
44A Ficusului Boulevard, Body B, Ground Floor, Bucharest 1, RO 013975, Romania

2008 Certificate of training course: SIMULIA ABAQUS
SIMULIA ABAQUS Europe BV,
MM-MM-08.137
Gaetano Martinolaan 95, P.O. Box 1637, 66201 BP Maastricht, The Netherlands at CYBERNETICS International SRL
44A Ficusului Boulevard, Body B, Ground Floor, Bucharest 1, RO 013975, Romania

2008 Certificate of training course: Numerically Controlled Machine Tools
Titan Automatization
250 Basarabia Boulevard, Bucharest 3, RO-030352, Romania

2007 Certificate of training course: Catia V5 including NC Manufacturing Infrastructure & 3 Axis Surface Machining
CYBERNETICS International SRL
44A Ficusului Boulevard, Body B, Ground Floor, Bucharest 1, RO 013975, Romania

2006 Certificate of training course: Integrating Rational Software Development Tools in University Curriculum
IBM – Romania
Faculty of Automatic Control and Computers
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

2005 Certificate of training course: Programming & Administration DB2-UDB
IBM – Romania
Faculty of Automatic Control and Computers
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

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2005 Certificate of training course: IBM Content Manager API Programming
IBM - Romania
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

2003 Certificate of training course: Quality Management in Higher Education
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

2003 Certificate of training course: External Auditing Staff for Quality Management Systems
No. 2637/22.08.2003
Romanian Society for Quality Assurance
Sinaia, Romania

2002 Certificate of training course: WebCT – Complete Software Solution for Long Distance Learning
CYBERNETICS International SRL
44A Ficusului Boulevard, Body B, Ground Floor, Bucharest 1, RO 013975, Romania

1996 Doctoral Thesis: The Influence of the Elastic Deformation of the Machine Tool Structural Elements on the Cutting Accuracy
University POLITEHNICA of Bucharest, Romania
OM P 0000755, No.145/21.10.1996
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

1995 Certificate of training course: Pressure Vessels Design. Practical Design Calculations
Mechanical Engineering Department
University of Strathclyde
16 Richmond Street, Glasgow G11XQ, U.K.

1995 Certificate of training course: Simulation Course - Witness
Faculty of Machine Building Technology
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

1987 Certificate of training course: Personal Computers
National Institute for Research & Development in Informatics - ICI Bucharest
8-10 Maresal Averescu Avenue, Bucharest 1, RO-011455, Romania

1986-1987 Certificate of training course: Finite Elements Method and Applications in Steel Structures Computation
Technical University of Civil Engineering
122-124 Lacul Tei Blv., Bucharest 2, RO-020396, Romania

1978-1983 Diploma in Engineering
Mechanical engineering, Machine Tools field
Faculty of Mchine Building Technology
University POLITEHNICA of Bucharest
313, Splaiul Independentei Avenue, Bucharest 6, RO-060032, Romania

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SCHOLARSHIPS & PostDoc

March - June 1995 EU Programme – TEMPUS grant for: Computer Aided Engineering
Mechanical Engineering Department
University of Strathclyde
16 Richmond Street, Glasgow G11XQ, U.K.

April - Oct. 1997 PostDoc: PROMOTEUR Research Project, Région RHONE – Alpes
Subject: Simulation du Comportement Dynamique des Pieces Minces
Laboratoire de Conception et Analyse des Systemes Mecaniques
Institut National des Sciences Appliquées de Lyon – INSA Lyon
France.

Nov. 2002 - Jan. 2003 PostDoc: NATO Science. Research Project
Subject: CAD/CAE Integration for Structural Analysis
Machine Elements & Machine Design Laboratory
Faculty of Engineering
Aristotle University of Thessaloniki
Egnatia Street, Building D, Thessaloniki 54124 Greece

Oct. 2003 - July 2004 PostDoc: Helenic State Scholarship Foundation (I.K.Y.)
Research Project, Subject: CAD - CAE Integration
Machine Elements & Machine Design Laboratory
Faculty of Engineering
Aristotle University of Thessaloniki
Egnatia Street, Building D, Thessaloniki 54124 Greece

Mar. 2006 - June 2006 Greek – Romanian Research Project
Subject: New Modeling Techniques
Machine Elements & Machine Design Laboratory
Faculty of Engineering
Aristotle University of Thessaloniki
Egnatia Street, Building D, Thessaloniki 54124 Greece

2008- 2027 ERASMUS LLP Coordinator
Subject: Design Techniques
Machine Elements & Machine Design Laboratory
Faculty of Engineering
Aristotle University of Thessaloniki
Egnatia Street, Building D, Thessaloniki 54124 Greece

Communication skills
- good communication skills gained from experience working abroad in multicultural environments in the UK, France and Greece, in projects with industrial and academic partners, and in teaching and research activities with students

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

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French*	B1	B1	B1	B1	B1

* DELF B1 – Session 2007-02-T, ATTESTATION DE RÉUSSITE no. 040001-007697.

Social skills and competences

- team spirit: I participated at 35 research & design projects in Romania and abroad.
- good ability to adapt and work in multicultural environments gained though my work experience abroad: U.K., France, Greece

Organisational skills and competences

- project and team management: gained at Politehnica University of Bucharest. I was Project Coordinator in 8 Research Projects, working in teams with more than 20 participants

Technical skills and competences

- CAD - CAE, Structural Analysis, Simulation, Optimization, vibration, metal matrix composites, CFD, optimization procedures, explicit and implicit procedures
- Data Base fundamentals and programming
- Quality Management. In 2003-2004 I took part in the team for implementing Total Quality System at Politehnica University of Bucharest. I am Quality responsible at Robots and Manufacturing Systems Department. This experience was aquired during training and voluntary activities.
- Robotics
- IoT, AI tools and data analytics

Computer skills and competences

- CAE: ANSYS and APDL ANSYS, Nastran, ABAQUS
- Pre and Post Processing Systems: ANSA, EPILYSIS, META-Post
- CAD: AutoCAD and AutoLISP, SolidWorks, CATIA, ProEngineer
- Database: DB2, SQL
- Computational Methods: Matlab and SIMULINK
- E-Learning: WebCT

Educational projects

- 2007-2021 Coordinator of ERASMUS LLP agreements with Machine Elements & Machine Design Laboratory, Aristotle University of Thessaloniki, Greece
- 2005-2007 Participant in IBM - Country Project Romania - Promoting DB2 Information Management Software in Romanian Technical Universities, at Faculty of Automatic Control and Computer Science, University Politehnica of Bucharest, Linux Center

Publications

- 9 books
- 9 scientific papers in periodicals (IF)
- 65 scientific papers ISI & Int. DB
- 36 presentations at Conferences
- 12 papers at national and international workshops & seminars
- 1 Patent letter.

Affiliations

- IEEE Romania
- ICMAS
- AGIR – General Association of Engineers in Romania
- ARTEN - Romanian Association for Unconventional Technologies
- CERTIP – Romanian National Org. for the Certification of Personnel in Higher Education
- ONCERSIS – Romanian Nat. Org. for the Certification of Man. Systems in Higher Education

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Doctoral Theses Supervisor & PHD Scientific Reviewer

- 2021 one thesis, 2023 two theses, 2024 – one thesis
- 2016, 2017 at Military Technical Academy, Romania - Scientific Reviewer
- 2011, 2012, 2016, 2017, 2019, 2022, 2023, 2024 at University Politehnica of Bucharest – Doctoral Thesis Scientific Reviewer

Reviewer

- IEEE Internet of Things Journal – Q1
- International Journal of Computer Integrated Manufacturing – Q2
- Scientific Bulletin of University Politehnica of Bucharest, Series D, Mech. Engineering, Scopus
- Journal Proceedings in Manufacturing Systems, Copernicus

Additional information

■ since February 2023 - Evaluator expert – registered member of the National Expert Team for the certification of research and development activities, based on the Ministerial Order no. 20242/13.02.2023, in the Field of Advanced Manufacturing.
■ since 2021 – Member of the Ethics Commission at Industrial Engineering and Robotics Doctoral School
■ since 2020 – Member of the Ethics Commission at University Politehnica
■ since 2014 – Member of the Industrial Engineering and Robotics Faculty Council
■ since 2014 – Member of the Industrial Engineering and Robotics Faculty Quality Management Commission
■ since 2014 – Member of the Robots and Manufacturing Systems Department Council
■ since 2019 – Evaluator Expert at UEFISCDI – Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding
■ since 2017 – Member in the Editorial Board of Proceedings in Manufacturing Systems Journal, Copernicus
■ 2017 – Member in the Scientific Committee MIT Conference and workshop, Sinaia 2017
■ 2016 – Project Evaluator at University Politehnica of Bucharest – Excellence in research grants GEX
■ 2014 – Reviewer and Member of the Scientific Committee: International Conference of Technology for Polymeric and Composites Products, POLCOM 2014, Applied Mechanics and Materials, Vol. 760, ISSN 1662- 7482, DOI: 10.4028/www.scientific.net/AMM.760.557
■ 2012 - Reviewer and Member of the Scientific Committee: International Conference on Power Transmissions, 20-23 June 2012, organized by the Balkan Association for Power Transmissions, Springer Netherlands, ISBN 978-94-007-6558-0, ISSN 2211-0984, BDI: Springer Link, Google Scholar, DOI: 10.1007/978-94-007-6558-0_38
■ 2010 - Reviewer and Member of the Scientific Committee „Optimization of the Robots and Manipulators", OPTIROB 2010, ISBN: 978-981-08-5840-7, Design, CRC & Printed by ITEK CMS Web Solutions, Singapore, Editor Adrian Olaru
■ 2009 - Reviewer and Member of the Scientific Committee: International Conference on Power Transmissions, October, 2009, organized by the Balkan Association for Power Transmissions in Kallithea, Greece
■ 2000, 2001, 2002 - Evaluator Expert in RELANSIN Romanian Research Programme
■ Scientific Reviewer at BREN Publishing House and Politehnica Publishing House

February 2026

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