

PERSONAL
INFORMATIONS

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Nationality: Romanian



PROFESSIONAL EXPERIENCE

Professional Background	<p>University professor (since 2016), Associate professor (2004 – 2016), Lecturer (1998 – 2004), Assistant professor (1994 – 1998), Scientific preparer (1991 – 1994) National University of Science and Technology POLITEHNICA Bucharest, Pitesti University Centre – Department of Manufacturing and Industrial Management / Târgu din Vale, nr.1, 110040 Pitești (RO)</p>
Managerial experience	<p>Since September 2022: Director of the Doctoral School of Industrial Engineering November 2016 – March 2020: Vice-Rector for Scientific Research and Computerisation 2008–2016: Director of the Manufacturing and Industrial Management Department Since 2011: Expert Evaluator – External Quality Assessment of Bachelor's, Master's, and Doctoral Programs / Romanian Agency for Quality Assurance in Higher Education Coordination of Study Programs: Industrial Economic Engineering (Bachelor's: 2010–2013, 2018–present), Logistics Management (Master's: 2007–2017), Industrial Engineering (Doctoral: 2017–present)</p>
Educational activity	<p>Areas of Expertise:</p> <ul style="list-style-type: none"> • Manufacturing technologies; • Organisation of production systems and logistics flows; • Production and inventory management. <p>Publications: 14 specialised books: 4 as lead author, 4 as editor, 3 in international editions; 14 educational materials, 13 of which are lead authors.</p>
Scientific research	<p>Research areas: manufacturing processes and equipment (machining, plastic deformation, friction stir welding); production system organisation; continuous improvement – lean manufacturing. Habilitation thesis in industrial engineering – September 2015 Supervision: 2 postdoctoral researchers; 11 doctoral students - 5 of whom have defended their doctoral theses (including 1 in an international joint supervision program), and 6 of whom are currently being supervised, including 1 in an international joint supervision program (ENSTA Brest). Head of the research program – Production Engineering and Management: Regional Research and Development Centre for Innovative Materials, Processes, and Products for the Automotive Industry Research Projects:</p> <ul style="list-style-type: none"> • 3 as project director (national competition), including "Experimental Characterisation and Numerical Modelling of Complex Cold-Rolled Profiles" with the University of Lorraine (formerly Paul Verlaine University of Metz), 2009-2010; • Member of the research teams for 18 other research projects, including "Modelling and Numerical Simulation of the Friction Stir Welding (FSW) Process" with ENSTA Bretagne, 2019-2021. <p>Patents: 6 national patents - RO126192/2014, RO126193/2014, RO130221/2017, RO132503/2020, RO134622/2022, RO134685/2022, one of which is as first author.</p> <p>Scientific publications:</p> <ul style="list-style-type: none"> • 21 articles in Web of Science indexed journals (with impact factor), including 9 as lead author; 9 articles in Q1 or Q2 indexed journals, including 6 as lead author; • more than 40 articles in Web of Science indexed proceedings (without impact factor) and more than 60 articles in journals and scientific event volumes indexed in other international databases. <p>Reviewer of Web of Science-indexed journal articles (with impact factor): Proceedings of the Institution of Mechanical Engineers Part B-Journal of Engineering Manufacture; Production and Manufacturing Research; Steel Research International; Journal of the Brazilian Society of Mechanical Sciences and Engineering; Proceedings of the Institution of Mechanical Engineers Part L- Journal of Materials-Design and Applications; Systems; Sustainability; Applied Sciences; Journal of Composites Science, Coatings, Eng, Production & Manufacturing Research Member of the Scientific Committee at international scientific conferences in the field of industrial engineering: Innovative Manufacturing Engineering (IManEE), International Conference on Advanced Manufacturing Technologies (ICAMaT), Computing and Solutions in Manufacturing Engineering (CoSME), New Technologies and Products in Machine Manufacturing Technologies (TEHNOMUS), Advanced Manufacturing Engineering and Technologies (NewTech), MANUFACTURING 2019, etc. Member of the Editorial Board of industrial engineering journals:</p> <ul style="list-style-type: none"> • Journal of Engineering Sciences (ISSN 2312-2498), https://jes.sumdu.edu.ua/editorial-board/; • The Annals of "Dunărea de Jos" University of Galați, Fascicle V, Technologies in Machine Building (ISSN 1221- 4566), https://www.gup.ugal.ro/ugaljournals/index.php/tmb/about/editorialTeam. <p>The impact of scientific activity H – index: Google Scholar – 12 ; Scopus – 9 ; ISI Web – 7 Scientific identification: ORCID - https://orcid.org/0000-0003-4571-3488; Web of Science Researcher ID: C-2818-2015; SCOPUS ID: 6506335442; Google Scholar Profile: https://scholar.google.ro/citations?hl=en&user=mvNvYZgAAAAJ&view_op=list_works ResearchGate Profile: https://www.researchgate.net/profile/Eduard-Laurentiu-Nitu-2</p>

DEVELOPMENT OF COLLABORATIONS AND PARTNERSHIPS

Partnerships with industry	Partnership with Dacia-Renault (2006-2010): the first Master's program in logistics in Romania – "Logistics Management" in collaboration with the University of Technology of Belfort-Montbéliard /Paul Verlaine University of Metz since 2011; specialised book in the field of automotive component manufacturing
University Partnerships	Development of collaboration with the University of Lorraine, Laboratory of Industrial Engineering, Production and Maintenance – Metz (since 2011): teaching activities in the Master's program in Logistics Management, research internships for Master's students, ERASMUS mobility programs, and joint scientific projects. Development of collaboration with ENSTA Bretagne – Brest (since 2014): teaching activities in the Master's programs in Engineering and Management of Product Manufacturing / Materials Science and Technology, research internships for students, ERASMUS mobility programs, joint research projects, and scientific projects.
Educational mobility	20-24.03.2022, 20-24.03.2023: University of Technology of Belfort-Montbéliard, France; Teaching activities: Industrial Logistics - Bachelor's degree. 15-18.05.2024, 3-6.09.2019, 3-7.05.2017, 9-13.05.2016, 30.03-3.04.2015, 7-11.04.2014, 17-22.06.2013, 10-14.09.2012: University of Lorraine, Laboratory of Industrial Engineering, Production and Maintenance – Metz, France; Teaching activities: Industrial Systems Engineering - Master's degree
Research mobility	23-25.06.2014 / 12-15.06.2018 / 27.10-01.11.2019 / 24-28.10.2021 / 04-09.07.2022 / 07-13.07.2023: National Graduate School of Advanced Techniques of Brittany, France - Brest Laboratory of Mechanics and Systems - Research Internships. May 2010 and May 2009: Paul Verlaine University of Metz, Laboratory of Materials Physics and Mechanics; Scientific research: Characterisation of material behaviour during plastic deformation & Numerical simulation of plastic deformation processes
Visiting Professor	Novembre 2025: University of Lorraine, Laboratory of Computer Engineering, Production and Maintenance – Metz, France; Teaching and research activities

EDUCATION AND TRAINING

Education	Doctor of Materials Science and Engineering Structural analysis of materials by electron microscopy and X-ray diffraction National Polytechnic Institute of Toulouse - Laboratory of Physical Metallurgy & Centre for Materials Studies and Structural Development of Toulouse (joint supervision with POLITEHNICA University of Bucharest)
March 1996 – March 2000	
October 1994 – March 2000	Doctor of Industrial Engineering Theoretical and experimental research on cold volumetric plastic deformation processes (cold rolling) POLITEHNICA University of Bucharest (joint supervision with INP Toulouse)
1986 - 1991	Mechanical Engineer – specialising in Manufacturing Engineering Polytechnic Institute of Bucharest
1981 - 1985	Baccalaureate - specialisation in mathematics and physics Nicolae Bălcescu High School (currently I.C. Brătianu National College), Pitești
Formations	Quality assurance in higher education in Romania. Internationalisation of higher education / Romanian Agency for Quality Assurance in Higher Education (ARACIS) Mechanical parts manufacturing technologies / Industrial systems implementation / Ergonomic analysis of workstations / DACIA - RENAULT Mechanical Plant Integrated business management. Use of ERP-type applications: ABAS & MFG-PRO / SC SISTEC SBSOL SRL & CRESCENDO International SRL Use of NX CAD, NXCAM, Tecnomatix – Siemens software / Digital Twin SRL

PERSONAL SKILLS AND ABILITIES

Native language	Romanian
Other language(s)	French (C1), English (B1) – understanding, speaking, writing
Technical skills and competencies	Design and organisation of production processes / Lean Manufacturing
Social skills and competencies	Excellent communication and teamwork skills
Organizational skills and competencies	Initiative, punctuality, keen attention to detail, decision-making skills, ambition, and a strong work ethic

ADDITIONAL INFORMATION

Founding member of the Romanian Association of Managers and Economic Engineers (AMIER) – since 2002
Member of the Professional Association of Modern Manufacturing Technologies (ModTech) – since 2011
Member of Specialised Commission No. 16, Production Engineering and Management, within the National Commission for the Certification of Degrees, Diplomas and University Certificates (CNATDCU), since 2024
France Alumni Ambassador to the French Institute of Romania, since 2025

10.03.2026

Prof. habil. dr. ing. NIȚU Eduard Laurențiu