

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) **MÂNDRU Silviu Dan**
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 E-mail Dan.Mandru@mdm.utcluj.ro
 Nationality Romanian
 Date of birth 03 June 1962
 Gender Male

Occupational field Higher Education

Work experience

Dates	2004-present
Occupation or position held	Professor, PhD Adviser, Faculty of Automotive, Mechatronics and Mechanical Engineering
Main activities and responsibilities	Courses, seminars, project activities, (Bachelor- the III-IV years of study, Master), in Biomechatronics, Rehabilitation Engineering, Actuators, master dissertations and diploma projects and research activity in: mechatronics, rehabilitation engineering, drive systems, assistive technology
Name and address of employer	TECHNICAL UNIVERSITY OF CLUJ-NAPOCA (TUC-N) Str. Memorandumului nr. 28, 400114, Cluj-Napoca, ROMANIA
Type of business or sector	Education
Dates	2001-2004
Occupation or position held	Senior Lecturer (Associated Professor) Faculty of Mechanical Engineering
Main activities and responsibilities	Courses, seminars, project activities (students in the III-V years of study, Master) in Biomechatronics, Rehabilitation Engineering, Actuators, Biomechanics, master dissertations and diploma projects and research activity in: mechatronics, rehabilitation engineering, drive systems, assistive technology, precision engineering.
Name and address of employer	TECHNICAL UNIVERSITY OF CLUJ-NAPOCA (TUC-N) Str. Memorandumului nr. 28, 400114, Cluj-Napoca, ROMANIA

Type of business or sector	Education
Dates	1994-2001
Occupation or position held	Lecturer Faculty of Mechanical Engineering
Main activities and responsibilities	Courses, seminars, project activities, diploma projects (students in the III, IV and V years of study)
Name and address of employer	TECHNICAL UNIVERSITY OF CLUJ-NAPOCA (TUC-N) Str. Memorandumului nr. 28, 400114, Cluj-Napoca, ROMANIA
Type of business or sector	Education
Dates	1991-1994
Occupation or position held	Assistant Faculty of Mechanical Engineering
Main activities and responsibilities	Seminars, project activities, diploma works
Name and address of employer	TECHNICAL UNIVERSITY OF CLUJ-NAPOCA (TUC-N) Str. Memorandumului nr. 28, 400114, Cluj-Napoca, ROMANIA
Type of business or sector	Education
Dates	1987-1991
Occupation or position held	Mechanical Engineer
Main activities and responsibilities	Designing technological processes
Name and address of employer	Machine Tools and Accessories Factory – RAMIRA, 160, V. Lucaciu Street, Baia-Mare, ROMANIA
Type of business or sector	Industry

Education and training

Dates	1992 -1999
Title of qualification awarded	Ph. D.
Principal subjects/occupational skills covered	Engineering sciences - Mechanical engineering PhD thesis title: Research regarding the optimization of the mechanisms for upper limb prosthesis
Name and type of organisation providing education and training	TECHNICAL UNIVERSITY OF CLUJ-NAPOCA (TUC-N) Str. Memorandumului nr. 28, 400114, Cluj-Napoca, ROMANIA
Dates	1982-1987
Title of qualification awarded	Mechanical Engineer Degree
Principal subjects/occupational skills covered	Mechanical engineering
Name and type of organisation providing education and training	POLYTECHNIC INSTITUTE OF BUCHAREST (Nowadays: "POLITEHNICA" UNIVERSITY OF BUCHAREST", 313, Splaiul Independenței, Sector 6, Bucharest, ROMANIA

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Medium user	B2	Medium user	B1	Medium user	A2	Beginner	B1	Medium user

(*) *Common European Framework of Reference for Languages*

Social skills and competences	Good communication and teamwork abilities, due to the activity within the university, as coordinator of teams of students, researchers, and experts; international experience acquired through the professional visits abroad (Spain, France, Denmark, Italy, Germany, Hungary, Finland, USA, United Arab Emirates, Turkmenistan, Kazakhstan, Morocco, Tunisia, Latvia, Cyprus and China).
Organisational skills and competences	2001 – Scientific Secretary of the Council of the Faculty of Mechanical Engineering 2001-2004 - Vice-Dean of the Faculty of Mechanical Engineering since 1992 - member of the Council of the Faculty of Mechanical Engineering since 2000 - Head of the Biomechatronics Laboratory, 2012 – 2016 - Dean of the Faculty of Mechanical Engineering ; 2016 - 2024 – Vice-Rector of the Technical University of Cluj-Napoca for International Relations. 2022 - 2024 - Secretary of the Board of Directors of the Technical University of Cluj-Napoca Coordinator and TUCN responsible for the ERASMUS Intensive Course (IP) programs, during the period 2006 – 2012, held at the University of Applied Sciences, Jyväskylä, Finland, with the topics: Assistive Technology for Medical Engineer/Engineer/Architect Students (2006-2008), User friendly innovations and design for senior citizens (2010-2012), Smart Home (2013-2014). TUCN Coordinator and Responsible of the Reshaped Partnerships for Competitiveness and Innovation Potential in Mechanical Engineering project, 540425-LLP-1-2013-1-FI-ERASMUS-EKA. (2013 – 2014) TUCN Coordinator and Responsible of the Advancing University Education in Biomedical Engineering and Health Management in Kyrgyzstan – KyrMedu project, Project number: 561894-EPP-1-2015-1-DE-EPPKA2-CBHE-JP, Director of CNFIS-FDI Internationalization projects (2017-2024): CNFIS-FDI-2017-0101: Strengthening the internationalization capacity of the Technical University of Cluj-Napoca CNFIS-FDI-2018-0255: Transversal actions for the internationalization of the Technical University of Cluj-Napoca CNFIS-FDI-2019-0495: Be International at Home - support actions for the internationalization of the Technical University of Cluj-Napoca CNFIS-FDI-2020-0340: International Campus - actions to strengthen the international orientation of the Technical University of Cluj-Napoca CNFIS-FDI-2021-0193: Internationalization-factor of systemic transformation of the Technical University of Cluj-Napoca CNFIS-FDI-2022-0339: International@UTCN-development of the international dimension of the Technical University of Cluj-Napoca CNFIS-FDI-2023-F-0295:Support actions and instruments for the internationalization of the Technical University of Cluj-Napoca CNFIS-FDI-2024-F-0265: Systemic development and consolidation of the international orientation of the Technical University of Cluj-Napoca (partially, until 1.07. 2024) ▪ a good knowledge of theoretical and experimental research activities; ▪ supervisor / mentor / coordinator, I have coordinated over 150 diploma projects and dissertations, chair of the study completion committee – Precision Engineering bachelor's degree, member of the study completion committee – Mechatronic Systems Engineering master's degree, 9 coordinated and completed doctoral theses, doctoral committee referee – 28, chair of doctoral committees – 25, etc.
Computer skills and competences	- good command of Microsoft Office™ tools (Word™, Excel™, PowerPoint™ and Photo Editor™), acquired through work;
Additional information	15 published books, of which: first author/unique author – 2, co-author – 8, contributor (book chapter) – 5; Over 300 papers published in journals and presented at conferences (96 indexed WoS, 82 indexed Scopus), 26 research – development – innovation projects based on national and international contracts/grants, of which 6 as research project coordinator, 1 patent, 1 patent application.. Member of the following scientific societies: International Federation for the Promotion of Mechanism and Machine Science (IFToMM), Romanian Association for the Promotion of the Science of Machines and Mechanisms (ARoTMM), Romanian Robotics Society (SRR), Romanian Society of Medical Engineering and Biological Technology, National Society of Medical Engineering and Biological Technology (Vice President, founding member).