



## Curriculum vitae Europass



### Informații personale

**Nume / Prenume** **Deaconu , Sorin Ioan**  
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**Nationality** Romanian  
**Date of birth** May 25<sup>th</sup> 1965  
**Gender** Male

**Desired employment / Occupational field** **Professor, Department of Electrical Engineering and Industrial Informatics, Faculty of Engineering Hunedoara, University Politehnica Timișoara / Education**

**Work experience** 34 years of which 32.5 in higher education

**Period** 2019 – present

**Occupation or position held** Professor, Department of Electrical Engineering and Industrial Informatics

**Main activities and responsibilities** Teaching, Research, Contractual activity, quality assurance of the didactic process, member of the licensing commissions, dissertation, defense of doctoral theses and defense of habilitation theses, management of diploma projects, dissertation in the specializations: Electrical Engineering and Computers, Industrial Informatics, Advanced Systems of use of electricity. Supervision of doctoral theses in the field of Electrical Engineering. Discipline holder in: Electromagnetic converters, Electric drives, Machines and electric drives, Advanced systems of machines and electric drives. Director of the Postgraduate Studies Center at the Hunedoara Engineering Faculty, 2019-present.

**Name and address of employer** Politehnica University of Timisoara, Faculty of Engineering Hunedoara, Revolutiei Street, no 5, Hunedoara County, postal code 331128, Romania

**Type of business or sector** Teaching and research activity

**Period** 2000 - 2019

**Occupation or position held** Associate Professor, Department of Electrical Engineering and Industrial Informatics

**Main activities and responsibilities** Teaching, Research, Contractual Assurance, Quality Assurance, Didactical Process, Membership in Bachelor's and Dissertation Commissions, Leading Diploma Projects and Dissertations at the Specializations: Electromechanics, Industrial Informatics, Electrical Engineering and Computers, Advanced Power Systems, Computer Engineering in Electrical Engineering, Road Vehicles. Teaching activity for the following disciplines: Electrical Machines, Electromagnetic Converters, Electric Drives, Static Converters, Electrical Machines and Drives, Advanced Systems of Electrical Machines and Drives, Performant Static Converters. Head of the Department of Electrical Engineering and Industrial Informatics 2008-2012. Head of the Department of Continuing Education 2000 – 2008. Coordinator of Postgraduate Studies Center 2012 – present. Responsible for postgraduate programs (13 accredited programs).

Name and address of employer	Politehnica University of Timisoara, Faculty of Engineering Hunedoara, Revolutiei Street, no 5, Hunedoara County, postal code 331128, Romania
Type of business or sector	Teaching and research activity
Period	1996 - 2000
Occupation or position held	Lecturer, Department of Electromechanics
Main activities and responsibilities	Teaching, Research, Contractual Assurance, Quality Assurance, Didactical Process, Membership in Bachelor's and Dissertation Commissions, Leading Diploma Projects and Dissertations at the Specialization Electromechanics Teaching activity for the following disciplines: Electrical Machines, Electric Traction, Electric Drives.
Name and address of employer	Politehnica University of Timisoara, Faculty of Engineering Hunedoara, Revolutiei Street, no 5, Hunedoara County, postal code 331128, Romania
Type of business or sector	Teaching and research activity
Period	1993 - 1996
Occupation or position held	Assistant, Department of Electromechanics
Main activities and responsibilities	Teaching, Research, Contractual Assurance. Teaching activity for the following disciplines: Electrical Machines, Electric Traction, Electric Drives.
Name and address of employer	Politehnica University of Timisoara, Faculty of Engineering Hunedoara, Revolutiei Street, no 5, Hunedoara County, postal code 331128, Romania
Type of business or sector	Teaching and research activity
Period	1994 - present
Occupation or position held	Zonal Representative for Project Implementation and Service.
Main activities and responsibilities	Application identification, solution proposal, practical implementation, commissioning, warranty service and post-warranty.
Name and address of employer	S.C. BEE SPEED Automations Lmtd. Timișoara, 307221, Chișoda, MODUL 3 - INCONTRO 07
Type of business or sector	Design, Production. Electric drives. Industrial automation.
Period	October 1991 - 1993
Occupation or position held	Preparator, Department of Electromechanics
Main activities and responsibilities	Teaching, Research, Contractual Assurance. Application activities with the students (laboratory, project, seminar) at the disciplines: Electrical Machines, Electrical Measurements, Electric Drives, Industrial Automation.
Name and address of employer	Politehnica University of Timisoara, Faculty of Engineering Hunedoara, Revolutiei Street, no 5, Hunedoara County, postal code 331128, Romania
Type of business or sector	Teaching and research activity
Period	February 1991 – September 1991
Occupation or position held	Preparator, Department of Electric Machines.
Main activities and responsibilities	Teaching, Research, Contractual Assurance. Applying with students (laboratory, project, seminar) at the discipline: Electrical Machines.
Name and address of employer	Politehnica University of Timisoara, Electrotechnical Faculty, Vasile Pârvan str., no.1-2, postal code 300223, Timișoara, www.et.upt.ro
Type of business or sector	Teaching and research activity
Period	September 1989 – January 1991
Occupation or position held	Engineer in training
Main activities and responsibilities	Investment - Expansion of consumer goods section. Production - electrical separators. Tramway design - homologation electric tram with chopper , homologation metro controller.
Name and address of employer	Electrometal Timișoara Company, Circumvalațiunii str. no. 1, Timișoara, Romania, www.eltim.ro
Type of business or sector	Investment, Production, Design.

## Education and training

Period	2019, Habilitation Thesis
Title of qualification awarded	Habilitation in Electrical Engineering, O.M. 4100 / 28.05.2019, title of the habilitation thesis: „Researches and contributions in the field of electric power utilization and production (industrial variable speed electric drives, reactive power compensation systems, axial electric drives for hybrid and electric vehicles and adjustable electric generators)”
Period	2016, Specialization course.
Title of qualification awarded	Graduate Certificate Course Project Manager.
Name and type of education institution / training provider	Timis Chamber of Commerce, Industry and Services
Period	2012-2013, Postgraduate course.
Title of qualification awarded	Graduate Certificate Blended-Learning course and modern educational technologies.
Name and type of education institution / training provider	Politehnica University of Timișoara
Period	2002, Training course ACS 800: ABB Company, Training Center, Zagreb, Croatia.
Title of qualification awarded	User, ACS 800 static converter authorized troubleshooter.
Period	1993-1998
Title of qualification awarded	Doctor of Technical Sciences, title of PhD thesis: Study of Brushless Electric Generator, coordinator Prof.dr.ing. Saimac Anton.
Principal subjects / occupational skills covered	Special Electrical Machines, Electric Drives with Static Converters, Power Electronics, Industrial Automation and Robotics, Finite Element Analysis of Electromagnetic Field.
Name and type of education institution / training provide	Politehnica University of Timișoara
Period	1984-1989
Title of qualification awarded	Electrotechnical Engineer, Electrical Machines Specialization, Final Media 9.89 (Head of Promotion), Note at the diploma project 10. Title of the diploma project: Monorotor Agregate with Stator Excitation, coordinator acad. Prof.dr.ing. Boldea Ion.
Principal subjects / occupational skills covered	Electric Machines, Electric Drives, Power Electronics, Electrical Devices and Circuits, Electrotechnical Basics, Electrical Circuits, Programming of Electronic Computers.
Name and type of education institution / training provide	Polytechnic Institute Traian Vuia Timișoara
Level in national or international classification	ISCED6

## Personal skills and competences

Mother language (s) Romanian

Other languages **English**

Autoevaluation

*European level (\*)*

**English language**

**German language**

**Understanding**

Listening Reading

A1 Elementar user B2 Independent user

A1 Elementar user A2 Elementar user

**Speaking**

Spoken interaction Listening

A1 Elementar user A1 Elementar user

A1 Elementar user A1 Elementar user

**Writing**

Reading

A2 Elementar user

A1 Elementar user

(\*)Common European Framework of Reference for Languages

Books 23 of books and chapters in books (11 with ISBN) and 7 course holders in electronic format (3 on the e-learning platform).

Publications / Patents 295 scientific papers, 41 papers indexed in the database ISI Web of Science and 46 indexed BDI, 3 patents (1 international).

The impact of research	Citations (without self citation): 88 ISI (h-index: 5), 91 IEEEExplore, 190 Scopus (h-index: 8), 474 Google Scholar (h-index: 11).
Reviews	249 articles in journals and conferences ISI, over 800 articles in journals and conferences BDI.
Presentations invited to the plenary of some Conferences	3 Internațional (1 ISI, 2 BDI).
Awards	"Constantin Budeanu" Prize of the Romanian Academy in 2016 for the book: "Dual rotor single stator permanent magnet motors for hybrid electric vehicles".
Member of the International Scientific Committee of Journals / Conferences	Associate Editor at BDI Journal of Electrical Engineering. Scientific committee / organizing committee member 6 ISI conferences. Scientific committee member 39 international BDI conferences.
Social skills and competences	I have the teamwork experience since college when I participated in the activities assumed by the practical and research projects carried out within the faculty. From 1986-1988 I was president of the student association at the Faculty of Electrical Engineering Timișoara.
Research Projects, Organisational skills and competences	Good experience of project and team management (10 research contracts with the business environment to 7 directors, team member to 6 nationals/internationals grants and director for 2 grants). Grants earned as director: 1. Performant powertrain for hybrid and electric vehicles with dual rotor single stator axial synchronous machine and single inverter, UEFISCDI, PN III Program / European and International Cooperation / bilateral cooperation between Romania and Moldova, contract number 17 BM / 19.09 .2016, the value of 51580 lei. It was published the chapter entitled "Lightweight high power power train propulsion with axial flow machines for electric or hybrid vehicles in the book: „New Trends in Electrical Vehicle Powertrains", IntechOpen London Publishing House and two books at the Polytechnic Publishing House of Timisoara on the topic of the project, 16 scientific papers at international and national conferences, held three scientific seminars at the foreign partner (Technical University of Moldova), the three teams participated in the organization of three international conferences, two applications were submitted , one in the competitions announced by the EU Horizon 2020 program and one at UEFISCDI, were visited 21 industrial enterprises by establishing cooperation relations with them for the submission of joint financing applications to international or national competitions on electric or hybrid vehicle drive systems with two-rotor axial electric machines. 2. Dual Stator Winding Induction Generator System for Wide-Variable Speed Wind Power Application, UEFISCDI, Program PN III/ European and International Cooperation / Romania-China bilateral project, contract number 8 BM/02.07.2018, the value of 39600 lei. Until this moment, a chapter was proposed for publication in the book "Electromechanical Devices and Machines" at InTechOpen London Publishing House, and six scientific papers (2 in journals and 4 at international conferences) were published. Organizer of 30 study trips with students, one to six days, to more than 100 enterprises in almost all counties of the country.
Technical skills and competences	Design, installation and servicing of electric drives with static frequency and softstarters.
Computer skills and competences	PC skills Using design-specific software, finite element analysis, dynamic simulations.
Artistic skills and competences	Passionate about authentic folk songs and folk traditions.
Other skills and competences / Professional association member	Senior IEEE Member from 2018. IEEE Member from 2006. AGIR Member from 2000. Hobby: mountain hiking.
Driving license (s)	B category
<b>More information</b>	References can be provided upon request.

Date

20.02.2023

Signature

