Curriculum Vitae

Personal information

First name(s) / Surname(s)	Suciu Vasile Mihai
Telephone(s)	0757696727
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E-mail	mihai.suciu@emd.utcluj.ro
Nationality	Romanian
Date of birth	05.05.1992

Work experience

Dates	2019 - Present
Name and address of employer	Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114
Occupation or position held	Teaching assistant/Research Assistant
Main activities and responsibilities	Laboratory teaching, and maintenance activities.

Dates	2016-2022
Name and address of employer	Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114
Occupation or position held	Master's degree student and engineer / PhD. student and engineer
Main activities and responsibilities	Researching activities within the project POC "MICROINV" – "Microinverters with high power density and high efficiency for renewable energy sources" (ID: P_40_391, MySMIS: 105616)

Dates	2023-2024
Name and address of employer	Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114
Occupation or position held	Electrical Engineer/ Researcher
Main activities and responsibilities	Researching activities within the project CDI "SEICER" – "Development of an innovative electronic system for collecting energy from renewable sources" (MySMIS: 156450)

Dates	2021-2023
Name and address of employer	Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114
Occupation or position held	Electrical Engineer/ Researcher
Main activities and responsibilities	Research activity within the project "Forest funicular with hybrid drive and energy recovery" SMIS 120499.

Education and training

Dates	2018-2022
Title of qualification awarded	Doctoral PhD studies
Principal subjects/occupational skills	Electrical engineer with graduated doctoral studies
Name and type of organization providing education and training	Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Department of Electrical Machines and Drives – division of Electronics and Power Electronics – TUCN IOSUD doctoral school

Dates	2016-2018
Title of qualification awarded	Master's degree
Principal subjects/occupational skills	Electrical engineer with graduated master's degree studies
Name and type of organization providing education and training	Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Specialization – Advanced electrical systems and structures

Dates	2012-2016
Title of qualification awarded	Bachelor's degree
Principal subjects/occupational skills	Electrical engineer
Name and type of organization providing education and training	Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Specialization - Electromecanics

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B1

Didactic activity

Teaching Courses
Electric Drives
Control of electric drives
Using of electric drives in industrial applications

Training Mobility

Research

National Grants
(max 5 the most representative)

International Grants
(max 5 the most representative)

Scientific publications

Vasile Mihai SUCIU, Sorin Ionuț SALCU, Lucian Nicolae PINTILIE, Petre Dorel TEODOSESCU – „Theoretical efficiency analysis of a buck – boost converter for wide voltage range operation" - ECAI 2018 – International Conference – Electronics, Computers and Artificial Inteligence, 28 – 30 June 2018 Iași, România, DOI: 10.1109/ECAI.2018.8679063.

Lucian Nicolae Pintilie, Ioana Cornelia Gros, Vasile Mihai Suciu, Florin Roman "Multifunctional socket for smart grid applications using Ethernet over Power Lines (EoP) and USB over IP (USB / IP) technologies", ICATE 2018 – International Conference on Applied and Theoretical Electricity (ICATE) 4 – 6 October, 2018 Craiova, Romania.

Suciu VM, Salcu SI, Pacuraru AM, Pintilie LN, Szekely NC, Teodosescu PD. Independent Double-Boost Interleaved Converter with Three-Level Output. Applied Sciences. 2021; 11(13):5993.

Vasile Mihai Suciu, Lucian Nicolae Pintilie, Sorin Ionuț Salcu, Petre Dorel Teodosescu, Teodor Pana, Zsolt Mathe, "Analysis of an Independent Double Boost Interleaved Converter in a Renewable Energy Application", Proceedings of Seventh International Congress on Information and Communication Technology, doi: 10.1007/978-981-19-2394-4.

Vasile Mihai Suciu, Lucian Nicolae Pintilie, Petre Dorel Teodosescu, Zsolt Mathe, "Analysis of an Independent Double Boost Interleaved Converter Operating as Power Optimizer in a PV Application ", Proceedings of Seventh International Congress on Information and Communication Technology, doi: 10.1007/978-981-19-2397-5.

Adrian Mihai Iuoras, Sorin Ionuț Salcu, Vasile Mihai Suciu, Lucian Nicolae Pintilie, Norbert Csaba Szekely, Mircea Bojan, Petre Dorel Teodosescu, "AC-DC Microgrid Analysis Using a Hybrid Real-Time HiL Approach", Proceedings of Seventh International Congress on Information and Communication Technology, doi: 10.1007/978-981-19-2394-4.

Norbert Csaba Szekely, Sorin Ionut Salcu, Vasile Mihai Suciu, Lucian Nicolae Pintilie, Gheorghe Ioan Fasola, Petre Dorel Teodosescu "Power Factor Correction Application Based on Independent Double-Boost Interleaved Converter (IDBIC)".

Alexandru Madalin Păcuraru, Vasile Mihai Suciu, Lucian Nicolae Pintilie, Sorin Ionut Salcu, Andrei Bogdan Cristian, Petre Dorel Teodosescu, "Analysis and Practical Implementation of an Independent Double Buck Interleaved Converter".

Lucian-Nicolae Pintilie, Horia-Cornel Hedeşiu, Călin-Gheorghe Rusu, Ioana-Cornelia Gros, Vasile-Mihai Suciu, Alexandru-Mădălin Păcuraru "FPGA based Real-Time simulation of FlyBack converter using graphical programming tools".

Lucian Nicolae Pintilie, Horia Cornel Hedeșiu, Călin Gheorghe Rusu, Petre Dorel Teodosescu, Călin Ignat Mărginean, Sorin Ionuț Salcu, Vasile Mihai Suciu, Norbert Csaba Szekely, Alexandru Mădălin Păcuraru "Energy Conversion Optimization Method in Nano-Grids Using Variable Supply Voltage Adjustment Strategy Based on a Novel Inverse Maximum Power Point Tracking Technique (iMPPT)".

Sorin Ionut Salcu, Vasile Mihai Suciu, Petre Dorel Teodosescu, Zsolt Mathe, "The Condition Number Perspective in Modeling and Designing an Electronic IDBIC Converter".

Patents

P. D. Teodosescu, V. M. Suciu, N. C. Szekely, A. M. Păcuraru, M. Bojan, and Z. Mathe, "Interleaved Voltage Step-up/Step-down Electronic Converter", RO134350A0, July 30, 2020.

Cluj-Napoca,
Date: September 2024

Name and signature: Suciu Vasile Mihai