



Curriculum Vitae

Personal information

First name(s) / Surname(s) Lucian – Nicolae Pintilie

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Fax(es)

E-mail Lucian.Pintilie@emd.utcluj.ro/pintilie_luci@yahoo.com

Nationality Romanian

Date of birth 1.10.1993

Work experience

Dates 2016 - Present

Name and address of employer Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114

Main activities and responsibilities Laboratory teaching, researching, and maintenance activities

Dates 2017 - 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 2018 - 2020

Name and address of employer Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114

Main activities and responsibilities Researching activities within the project POC "URBIVEL" – "Smart Electric Vehicle Technologies" (ID:

P_40_333, MySMIS: 105565)

Dates 2021 - 2023

Name and address of employer Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114

Main activities and responsibilities Researching activities within the project POC "AROBS" – "Development by AROBS of a new test

system for electronic central control units (ECUs) for vehicles" (MySMIS: 123359)

Dates 2023 - 2024

Name and address of employer Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114

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 2022 - 2024

Name and address of employer Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania 400114

Main activities and responsibilities Researching activities within the project "INO Hub DOC" - "Network of excellence in research and

applied innovation for doctoral and postdoctoral study programs" POCU / 993/6 / 13 / 153437.

Education and training

Dates 2018 - 2023

Title of qualification awarded Doctoral PhD studies

Name and type of organization Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Department of Electrical providing education and training Machines and Drives – division of Electronics and Power Electronics – TUCN IOSUD doctoral school

Dates 2016 - 2018

Title of qualification awarded Master's degree

Name and type of organization Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Specialization – Advanced

providing education and training 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 Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Specialization –

providing education and training
Instrumentation and Data Acquisition

Dates 2008 - 2012

Title of qualification awarded High school graduation diploma

Principal subjects / occupational skills Computer and Network Maintenance Technician and Operator

Name and type of organization Technical College "Victor Ungureanu" – Romania – Câmpia Turzii providing education and training

Dates 2011 - 2012

Title of qualification awarded Professional certificate

Principal subjects / occupational skills
Computer and Network Maintenance Technician and Operator

Name and type of organization Technical College "Victor Ungureanu" – Romania – Câmpia Turzii providing education and training

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessmentUnderstandingSpeakingWritingEuropean level (*)ListeningReadingSpoken interactionSpoken productionEnglishB2B2B1B1French----

Didactic activity

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Teaching Courses Embedded systems I – Microprocessors based embedded systems

Embedded systems II – Real-Time computing embedded systems Embedded systems III – FPGA and DSP based embedded systems

Applied control and estimation methods in electrical drives

Training Mobility

Institutional Projects "INO Hub DOC" – "Network of excellence in research and applied innovation for doctoral and (max 5 the most representative) postdoctoral study programs" POCU / 993/6 / 13 / 153437.

Research

National Grants (max 5 the most representative)

Patent pending "VARIABLE DC VOLTAGE FED MICROGRID AND ITS CONTROL METHOD" - RO

134348 AO – pending number: A 2019 00916, deposit date: 19.12.2019

Patent pending "Compensation method of reactive energy at the common coupling point as secondary electronic function" - RO 137573 AO - no. Application: A 2022 00528, deposit date 30.08.2022;

International Grants (max 5 the most representative)

Scientific publications

Vasile Mihai SUCIU, Sorin Ionuţ SALCU, Lucian Nicolae PINTILIE, Petre Dorel TEODOSESCU – "Theoretical efficiency analysis of a buck – boost converter for wide voltage range operation" - ECAl 2018 – International Conference – Electronics, Computers and Artificial Inteligence, 28 – 30 June 2018 laşi, 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, România, DOI: 10.1109/ICATE.2018.8551405.

Lucian Nicolae PINTILIE, Titus POP, Ioana Cornelia GROS, Adrian Mihai Iuoraș – " An I2C and Ethernet based open-source solution for home automation in the IoT context" - 2019 54th International Universities Power Engineering Conference (UPEC), București, România, 3 – 6 Septembrie 2019, DOI: 10.1109/UPEC.2019.8893583.

Vasile Mihai Suciu, Sorin Ionut Salcu, Alexandru Madalin Păcuraru, Lucian Nicolae Pintilie, Norbert Csaba Szekely and Petre Dorel Teodosescu - "Independent Double-Boost Interleaved Converter with Three-Level Output" – MDPI – Applied Science - Appl. Sci. 2021, 11, 5993.

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)" – MDPI – Applied Sciences – 2022.

Adrian Mihai Iuoraş, Sorin Ionuţ 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" – Springer, Singapore – Proceedings of Seventh International Congress on Information and Communication Technology – page 589 - 600 – year of publication 2022.

Vasile Mihai Suciu, Lucian Nicolae Pintilie, Sorin Ionuţ Salcu, Petre Dorel Teodosescu, Teodor Pana, Zsolt Mathe – "Analysis of an Independent Double Boost Interleaved Converter in a Renewable Energy Application" – Springer, Singapore – Proceedings of Seventh International Congress on Information and Communication Technology – page 539-548 – year of publication 2022.

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" – Springer, Singapore – Proceedings of Seventh International Congress on Information and Communication Technology – page 671-681 – year of publication 2022

Cătălin - Cristian Petrovici, Lucian - Nicolae Pintilie, Norbert - Csaba Szekely, Adrian - Mihai luoraș, Ioana - Cornelia Gros, Dan Chiuzbăian - "Implementation of a remote controlled photovoltaic nanogrid" - EPE 2022 Iași

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", 10th Edition of Modern Power Systems, Cluj - Napoca, România, 21st - 23rd June, 2023.

Lucian – Nicolae Pintilie, Horia – Cornel Hedeşiu, Călin – Gheorghe Rusu, Petre – Dorel Teodosescu, Călin – Ignat Mărginean, Sorin – Ionuț Salcu, Vasile – Mihai Suciu, Norbert – Csaba Szekely and 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)" – MDPI Electricity 2023, 4(4), 277-308; https://doi.org/10.3390/electricity4040017, Optimisation, Optimal Control and Nonlinear Dynamics in Electrical Power, Energy Storage and Renewable Energy Systems, 2nd Volume, Submission received: 14 September 2023 / Revised: 29 September 2023 / Accepted: 1 October 2023 / Published: 10 October 2023, Electricity, EISSN 2673-4826, Published by MDPI;

Pintilie C. Lucian – Nicolae – "CERCETĂRI CARE VIZEAZĂ MANAGEMENTUL ENERGIEI ELECTRICE ÎN SISTEME ELECTRONICE CU SURSE REGENERABILE" – Teză de doctorat, Conducător științific: Prof. Dr. Ing. Călin – Gh. RUSU, Data susținerii publice: 22.09.2023, an emitere Ordin de Ministru 2023, Școala Doctorală a Universității Tehnice din Cluj-Napoca 2023 (https://rei.gov.ro/);

Additional information

- Awards -
- Membership of Professional Societies
- Other relevant activities -

Significant books published in the last 10 years (max 10)

Ioana Cornelia GROS, Lucian Nicolae PINTILIE, Teodor Crișan PANĂ – "Sisteme Embedded în inginerie electrică – Ghid de aplicații" – Editura UTPRESS, Cluj – Napoca, 2020, ISBN: 978-606-737-431-5.

Lucian – Nicolae Pintilie, Ioana – Cornelia Gros, Adrian – Mihai Iuoraș, Vasile – Mihai Suciu, Teodor – Crișan Pană – Aplicații cu sisteme microprogramabile în Inginerie Electrică" – editura UTPRESS, Cluj – Napoca, 2024 – ISBN: 978-606-737-722-4 (https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/722-4.pdf).

Significant papers published in the last 10 years (max 10)

Vasile Mihai SUCIU, Sorin Ionuţ 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 laşi, 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, România, DOI: 10.1109/ICATE.2018.8551405.

Lucian Nicolae PINTILIE, Titus POP, Ioana Cornelia GROS, Adrian Mihai Iuoraș – " An I2C and Ethernet based open-source solution for home automation in the IoT context" - 2019 54th International Universities Power Engineering Conference (UPEC), București, România, 3 – 6 Septembrie 2019, DOI: 10.1109/UPEC.2019.8893583.

Vasile Mihai Suciu, Sorin Ionut Salcu, Alexandru Madalin Păcuraru, Lucian Nicolae Pintilie, Norbert Csaba Szekely and Petre Dorel Teodosescu - "Independent Double-Boost Interleaved Converter with Three-Level Output" – MDPI – Applied Science - Appl. Sci. 2021, 11, 5993.

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)" – MDPI – Applied Sciences – 2022.

Adrian Mihai Iuoraş, Sorin Ionuţ 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" – Springer, Singapore – Proceedings of Seventh International Congress on Information and Communication Technology – page 589 - 600 – year of publication 2022.

Vasile Mihai Suciu, Lucian Nicolae Pintilie, Sorin Ionuţ Salcu, Petre Dorel Teodosescu, Teodor Pana, Zsolt Mathe – "Analysis of an Independent Double Boost Interleaved Converter in a Renewable Energy Application" – Springer, Singapore – Proceedings of Seventh International Congress on Information and Communication Technology – page 539-548 – year of publication 2022.

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" – Springer, Singapore – Proceedings of Seventh International Congress on Information and Communication Technology – page 671-681 – year of publication 2022

Cătălin - Cristian Petrovici, Lucian - Nicolae Pintilie, Norbert - Csaba Szekely, Adrian - Mihai luoraș, Ioana - Cornelia Gros, Dan Chiuzbăian - "Implementation of a remote controlled photovoltaic nanogrid" - EPE 2022 Iași

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", 10th Edition of Modern Power Systems, Cluj - Napoca, România, 21st - 23rd June, 2023.

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Cluj-Napoca, Date: September 2024 Name and signature: Lucian – Nicolae Pintilie