

Personal Information

**Mureșan Alexandru**

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🌐 <https://www.linkedin.com/in/alexandru-muresan-bb0469105/>

Sex M | Date of birth 10/10/1991 | Nationality Romanian

PROFESSIONAL EXPERIENCE

10.06.2024 - present

EU Young Energy Ambassador

European Commission

https://sustainable-energy-week.ec.europa.eu/alexandru-muresan_en

- Drafting energy policy recommendations for the EU Energy Commissioner;
- Promoting sustainability and green transition in the EU;
- Participating in events and conferences organized by European Commission;
- Representing the EU young energy professionals in the European Parliament..

09.01.2023 present

Co-founder and CEO, Renergia

Energy Advisor, Cluj-Napoca, Romania

www.renergia.ro

- Study of energy efficiency approaches in commercial and residential sectors;
- Development of a dynamic and automated algorithm for generating energy efficiency recommendations in real time;
- Developing advanced numerical methods for load disaggregation (energy consumption)
- Coordinating the implementation of mathematics in digital environments
- Integration of the algorithm in a mobile App dedicated to the household energy consumer.

07.07.2022-present

Energies Journal (MDPI) scientific reviewer

MDPI Headquarters, 4052 Basel, Switzerland

<https://www.mdpi.com/>

01.09.2018-present

Sustainability Engineer/Researcher

Technical University of Cluj-Napoca, Energy Transition Research Center, Baritiu 26-28, Cluj-Napoca, Romania.

<https://entrec.utcluj.ro/>, <https://www.utcluj.ro/>

- Energy Efficiency in households.
- Renewable Energy Sources.
- Energy culture.
- Electromagnetic interferences.
- Numerical modeling.
- CAD design.
- Urban strategies (carbon neutrality roadmaps).
- Energy manager of Gherla City, responsible for the city roadmap towards complete decarbonization.

- 03.10.2018 - present

 - Coordinator of Alba Iulia Bold City Vision Plan 2050.

[Energy, Sustainability.](#)
Research Assistant
 Technical University of Cluj-Napoca, Faculty of Electrical Engineering, Baritiu 26-28, Cluj-Napoca, Romania.
<https://ethm.utcluj.ro/asistenti-si-doctoranzi.html>

- 10.01.2021-01.11.2021

 - Numerical Methods Applied in Engineering.
 - Theory of Electrical Circuits.
 - Electromagnetic Compatibility.

[Electrical Engineering, Applied Mathematics](#)
Energy Efficiency Consultant
 Servelect ESCO S.R.L, Str. Fabricii de Zahar 109, Cluj-Napoca, Romania.
<https://servelect.ro/>.

 - Elaboration of feasibility studies for assessing the implementation of energy efficiency measures and renewable energy sources impact.
 - Lecturer in energy culture programs implemented at various clients.
 - Carrying out research, development, and innovation activities in the field of energy.

- 01.07.2015-01.04.2019

[Energy](#)
Product Manager
 Electroglobal S.R.L, Tăietura Turcului 47/16N, 400221, Cluj-Napoca, ROMÂNIA
<https://www.electroglobal.ro/>

 - Commercial responsibilities regarding: strategies, commercial solutions, technical advice offered to clients, negotiations with suppliers.
 - Management duties: elaboration of weekly, monthly, and annual reports regarding sales volumes, stock turnover, and profit margin.
 - Maintenance and updating the products database in Microsoft Navision.

[Energy, Low Voltage Apparatus](#)

EDUCATION AND TRAINING

- May 2022-present

City Energy Manager Certificate
 Ministry of Energy, Splaiul Independenței 202E, Bucharest, Romania
<http://energie.gov.ro/eficienta-energetica/>

- September - November 2021

Post Graduate Degree: "Energy efficiency and sustainability for energy managers and energy specialists (in SMEs)"
 Technical Univeristy of Cluj-Napoca, Memorandumului 28, 400114, Cluj-Napoca, Romania.
<https://www.utcluj.ro/>

- 01.07.2017-09.12.2020

Ph.D. Electrical Engineering **EQF 8**
 Technical Univeristy of Cluj-Napoca, Faculty of Electrical Engineering, Baritiu 26-28, 400394 , Cluj-Napoca, Romania
<https://ie.utcluj.ro/acasa.html>

- 10.01.2022 – 12.03.2022

Invited Ph.D. Researcher
 University of the West of England, UWE Bristol - Frenchay Campus, Coldharbour Ln, Bristol BS16

1QY,United Kingdom.

<https://www.uwe.ac.uk/>

01.05.2019-10.07.2019

Invited Ph.D. Researcher

SINT Engegneria SRL, Via Cristoforo Colombo, 106, 36061 Bassano del Grappa VI, Italy.

<https://www.xgslab.com/>

03.10.2015-10.07.2017

Master Degree Electrical Engineering

Technical Univeristy of Cluj-Napoca, Faculty of Electrical Engineering, Baritiu 26-28, 400394, Cluj-Napoca, Romania

<https://ie.utcluj.ro/acasa.html>

03.10.2011-10.07.2015

Bachelor Degree Electrical Engineering

Technical Univeristy of Cluj-Napoca, Faculty of Electrical Engineering, Baritiu 26-28, 400394, Cluj-Napoca, Romania.

<https://ie.utcluj.ro/acasa.html>

15.07.2007-01.07.2011

Highschool: Economics

Ana Ipatescu Theoretical High School, Str. 1 Decembrie 1918 Nr. 20, Gherla 405300.

<http://anaipatescugherla.ro/>

23.02.2015 – 28.05.2015

Erasmus Student

Università degli Studi di Padova, Via VIII Febbraio, 2, 35122 Padova PD, Italy.

<https://www.unipd.it/>

PERSONAL SKILSS

Mother Language Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Enter level	Enter level	Enter level	Enter level	Enter level
	B2	B2	B2	B2	B2

Driving License ▪ B

Organisational / managerial skills

- Ability to take responsibility achieved by being responsible for specific tasks in national and European (H2020, Interreg, URBARACT, POCA) projects;
- Communication skills gained through international cooperation;
- Planning and time management skills;
- Good organizational skills;
- Good teamwork skills acquired while volunteering student in a non-profit organization (as president) and at work.

Digital Skills

- Microsoft Office;
- Microsoft Navision;
- AutoCAD;
- PTC Mathcad;
- Electromagnetic Transient Program (EMTP)/ATP;
- HTML/CSS Basic knowledge;
- XGSLab.

Other Skills

- Founding member of the Students' League of the Technical University of Cluj-Napoca;
- Teaching skills acquired during my university activity with students;

ADDITIONAL INFORMATION

Projects

November 2021 - January 2022

Alba Iulia's Smart City Strategy (URBARACT)

- Research Engineer and activities coordinator on behalf of the Technical University of Cluj-Napoca.

June 2021 - January 2022

S3UNICA (Smart Specialisation UNiversity Campus , InterregEurope)

- Research Engineer and activities coordinator on behalf of the Technical University of Cluj-Napoca.

September 2020 - January 2023

GEAR@SME (Generate energy efficient acting and Results at small & medium enterprises, 894356-GEAR@SME -H2020-LC-SC3-2018-2019-2020 / H2020-LC-SC3-EE-2019, 2020-2023).

- Contributions to the project activities, development and verification of deliverables.

September 2019 -August 2022

SMEmpower Efficiency (A holistic framework for Empowering SME's capacity to increase their energy efficiency,847132-SMEmpower Efficiency-H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-EE-2018, 2019-2022)

- Contributions to the project activities, development and verification of deliverables.

April 2019 – September 2022

RE-COGNITION (Renewable Cogeneration and Storage Technologies Integration for energy Autonomous Buildings, 815301-RE-COGNITION-H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2018-RESTwoStages,2019-2022, www.re-cognition-project.eu)

- Involved in tasks and development of deliverables.

January 2018 – June 2021

eDREAM (enabling new Demand REsponse Advanced, Market oriented and Secure technologies, solutions and business models, H2020-LCE-2016-2017/H2020-LCE-2017-SGS, 2018-2021)

- Involved in tasks and development of deliverables.

Publications

- Kereszy, I.; Rakov, V.; Czumbil, L.; Muresan, A.; Ding, Z.; Micu, D.; Cooray, V. Energetic Radiation from Subsequent-Stroke Leaders: The Role of Reduced Air Density in Decayed Lightning Channels. Appl. Sci. 2022, 12, 7520. <https://doi.org/10.3390/app12157520>
- Muresan Alexandru, Levente Czumbil, Alexis Polycarpou, Hassan Nouri, Roberto Andolfato, Dan D. Micu "Mitigation of transient ground potential rise in gas insulated substations during very fast transient overvoltage, Volume 207, 2022, 107824, **Electric Power Systems Research Journal**.

Conferences

- Alexandru, M.; Czumbil, L.; Andolfato, R.; Nouri, H.; Micu, D.D. "Investigating the Effect of Several Model Configurations on the Transient Response of Gas-Insulated Substation during Fault Events Using an Electromagnetic Field Theory Approach" **Energies Journal**

- 2022 20th International Conference on Harmonics and Power Quality
A. Muresan et al., "A Practical Approach to Mitigate the Harmonic Distorsion in a Microgrid, Case Study," 2022 20th International Conference on Harmonics & Quality of Power (ICHQP), 2022, pp. 1-6
- 56th International Universities Power Engineering Conference (UPEC)
D. Stet et al., "Educational and Training Program to Increase SME's Energy Efficiency Skills," 2021 56th International Universities Power Engineering Conference (UPEC), 2021, pp. 1-6, doi: 10.1109/UPEC50034.2021.9548263.
- The 12th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2020)
M. Alexandru, L. Czumbil, A. Polycarpou, H. Nouri, R. Andolfato and D. D. Micu, "NOVEL ELECTROMAGNETIC FIELD THEORY APPROACH APPLIED TO GAS INSULATED SUBSTATION TRANSIENT BEHAVIOUR DURING LIGHTNING SURGE IMPULSE"
- International Conference and Exposition on Electrical And Power Engineering (EPE)
M. Alexandru, L. Czumbil, D. D. Micu and T. Papadopoulos, "Analysis of Electromagnetic Interferences Between AC High Voltage Power Lines and Metallic Pipeline Using Two Different Approaches Based on Circuit Theory and Electromagnetic Field Theory," 2020, pp. 519-524, doi: 10.1109/EPE50722.2020.9305583.
- *2018 International Conference and Exposition on Electrical And Power Engineering (EPE),*
M. Alexandru, D. D. Micu, J. D. Ioan and R. Andolfato, "Overview on computational methods of Gas Insulated Substation grounding grid analysis," 2018, pp. 0081-0086, doi: 10.1109/ICEPE.2018.8559872.

