

PERSONAL INFORMATION

MĂGUREAN ANCUȚA MARIA



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Sex female | Date of birth 14/10/1987 | Nationality Romanian

WORK EXPERIENCE

October - November 2021

Expert of European Climate, Infrastructure and Environment Executive Agency (CINEA)

Research Executive Agency (REA) – within the European Commission

- Evaluation of EU-funded research projects (HORIZON) – contract based activity

Business or sector Scientific research

February 2021 - Present

Reviewer for the scientific journals: ENERGIES (Impact Factor 3.004), SUSTAINABILITY (Impact Factor 3.251)

MDPI

- Peer Review of scientific articles (6 peer reviews undertaken until present)

Business or sector Scientific research

February 2020 - Present

Assistant Professor

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF AUTOMOTIVE, MECHATRONICS AND MECHANICAL ENGINEERING, The Department of Mechanical Engineering (Bvd. Muncii, no. 103-105, Cluj-Napoca, Romania)

- Course + seminars for discipline: - starting with Oct. 2021
 - Energy systems audit and certification (Master Renewable Energies – 2nd Year);
- Laboratory / seminars / project for disciplines:
 - Thermodynamics;
 - District heating;

Business or sector Academic didactic activity

2nd Edition: Oct – Nov 2021

1st Edition: May – June 2021

Lecturer

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DECIDFR-TUCN Department (Dorobanților Street, no 71-73, Cluj-Napoca, Romania)

- Postgraduate course: “Efficiency and sustainability for energy managers (in SMEs)”, ([Programe postuniversitare | UTC-N \(utcluj.ro\)](#))

Business or sector Academic didactic activity

October 2019 – February 2020

Adjunct Professor (Cadru didactic asociat)

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF AUTOMOTIVE, MECHATRONICS AND MECHANICAL ENGINEERING, The Department of Mechanical Engineering (Bvd. Muncii, no. 103-105, Cluj-Napoca, Romania)

Main activities and responsibilities:

- I teach the laboratory for undergraduate course: “District Heating” – Prof.dr.eng. Mugur Bălan

Business or sector Academic didactic activity

March - April 2018

Invited lecturer

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, DECIDFR-TUCN Department (Dorobanților Street, no 71-73, Cluj-Napoca, Romania)

Main activities and responsibilities:

- I taught the module: "Case studies – the preparation for the modernization of the public buildings through Regional Operational Program 3.1 funding - examples of Building Energy Audits and Documentation for Approval of Intervention Works"
- Postgraduate course: "Energy managers for localities" (http://decidfr.utcluj.ro/saitscoala.php?cod_activi=188)

Business or sector Academic didactic activity

Invited lecturer in the nZEB topic seminar for M.Sc. Students and Ph.D. Students

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF CIVIL ENGINEERING (Gh. Baritiu Street, no 25, Cluj-Napoca)

Main activities and responsibilities:

- I taught the module: "Advanced Modelling Methods for Nearly Zero Energy Buildings (nZEB): Introduction to advanced numerical analysis of thermal bridges using THERM program. Theoretical considerations and calculation examples"
- Seminars on NZEB topic;
- Summer School Courses: "Design and Rehabilitation of Masonry Buildings"

in the project 71BG / 2016 entitled: "Improving the eco-friendly brick manufacturing technology", funded by the Executive Unit for Financing Higher Education, Research, Development and Innovation, CNCS / CCCDI-UEFISCDI, PN-III- 2.1-BG-2016-0203, Romania
(https://constructii.utcluj.ro/files/2016-2017/bridge_grant/evenimente.html)

Business or sector Academic didactic activity

Invited lecturer

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, THE CENTER FOR RESOURCES IN ENERGY EFFICIENCY AND CLIMATE CHANGE (CREESC) AND THE MUNICIPALITY OF CLUJ-NAPOCA

Main activities and responsibilities:

- I taught the module: "The role of the Energy Auditor in fund accessing through the Regional Operational Program 2014-2020, Priority of investment 3.1.B. nZEB Case Studies: 2 buildings of the Tg. Mures County Hospital"
- Seminar "Actions and solutions for increasing energy efficiency in local communities"

Business or sector Academic didactic activity

Invited lecturer

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, NUMERICAL METHODS RESEARCH LABORATORY (Gh. Baritiu Street, no 26-28, Cluj-Napoca) - <http://users.utcluj.ro/~lcmn/>

Main activities and responsibilities:

- I taught in the module: "Advanced modelling theories, techniques and tools for the building energy analysis"
- Postgraduate course "Energy analysis techniques and practices for implementing the Nearly Zero Energy Buildings (nZEB), undertaken by international project MEnS - ENERGY MEETING OF PROFESSIONAL SKILLS, under the European Union Programme for Research and Innovation - HORIZON 2020 , H2020-EE-2014-3-MarketUptake – www.mens-nzeb.eu

Business or sector Academic didactic activity

13 January 2018
27- 30 July 2017

27 October 2017

3rd Edition: Jan-Feb. 2016
2nd Edition: April-May 2016
1st Edition: Nov 2016-Jan 2017

03.10.2013 – present

Energy auditor for buildings / Civil Engineer

S.C. ECOVER PROIECT S.R.L. Campia Turzii, Cluj county

Main activities and responsibilities:

- o I performed RLV for buildings, identifying thermal bridges in the building envelope, advanced hightermal calculation within the energy performance certificate and energy audit, deep retrofit analysis of the building envelope, proposal of technical solutions, financial calculation for obtaining investment evaluation

Reference buildings and projects as sole author or member within the team:

- o „**ROMANIA – Energy Audit / Feasibility Study for public buildings and lighting renovation in Arad**” – according to HCL nr. 391/01 august 2019, Arad Municipality, with financing through EBRD (European Bank of Reconstruction and Development), în colaboration with SC SERVELECT SRL Cluj-Napoca – 27 educational units within Romanian pre-university education system; (energy auditor – 18 energy audits)
- o The objective: “Establishment of a slaughterhouse and poultry processing unit”, for Body 1: “Puiul de Crăiești” slaughterhouse hall, loc. Sânpaul, Mureș County - CPE at the reception
- o Energetic study for nZEB design within the objective: “Construction of the general school with grades 0-8, Florești, Cluj county” Scd = 11526 m²;
 - o Complex Renovation Project for **Mureș County Hospital buildings - Department of Pulmonology and Oncology**, through POR 2014-2020, Measure 3.1.B - energy consultancy (restoration of initial energy audits, elaboration of energy efficiency strategy and change / proposal of technical solutions, for achieve NZEB target indicators, according to Applicant's Guide requirements) – nZEB energy consultant / energy auditor in the collective
 - o **Headquarters buildings of Romanian Intelligence Service and Cluj County Police Department, Cluj-Napoca** - consultancy (optimization of existing energy audits, change / proposal of technical solutions for the transformation of buildings into nZEB - financed with european funds through POR 2014 – 2020, Measure 3.1B, in collaboration with SC SERVELECT SRL Cluj-Napoca. Approved project, investment value obtained 16.8 mil. Euros (including V.A.T.) – nZEB energy consultant / optimization of energy audits
 - o Thermal rehabilitation Project for **2 apartment buildings (Block I58 and Block SB34, total of 78 apartments)**, for Zalău Municipality through POR 2014-2020, Measure 3.1A - general designer: energy audits + DALI (Documentation for the Approval of Intervention Works)
 - o Apulum Porcelain Factory – industrial hall, S=36400 sqm – preliminary energy audit
 - o **National headquarters office building E-ON Gas Romania**, S = 18270 sqm – energy performance certificate
 - o **National headquarters office building TRANSGAZ Romania**, S = 8070 sqm – energy performance audit with proposals of NZEB solutions.
 - o **KAUFLAND Romania** supermarkets – Tg. Mureș S = 6438 m², Timișoara S = 6083 m², Bistrița S = 5522 m², Mediaș S = 6079 m² – energy performance certificates
 - o Industrial hall for coffee packaging **NESTLE Romania**, Timișoara, S = 1402 m² – energy performance certificates
 - o **University of Medicine and Pharmacy swimming complex, Tg. Mureș**, S = 1400 m² – energy performance certificate
 - o Roman Hotel S+P+7E, Roman – energy audit
 - o Office building, S+P+4E, Calea Turzii street, Cluj-Napoca – energy performance certificate
 - o **MHP Porsche** office building S+P+3E. C-tin Brancusi street, Cluj-Napoca – energy performance certificate
 - o Showroom auto, **Dealer BMW Tg. Mureș**, S = 2072 m² – energy performance certificate
 - o Balneary and recreation complex **Grand Santerra Spa Balványos**, Covasna County, S = 2500 m² – energy performance certificate
 - o Office building NESTLE Romania, Cluj-Napoca – energy performance certificate
 - o Residential building, S+P+E – 12 apartments, Sibiu – energy performance certificate
 - o Office building, P+E+M, Sannicoara, Cluj county – energy audit
 - o Office building D+P+3E, Iasilor street, Cluj-Napoca – energy performance certificate
 - o Residential houses, with different height: D+P+E, P+M, P, P+E+2M, Sp+P+E – Cluj, Bihor county – energy performance certificates
 - o Apartments 1, 2, 3 rooms in new and existent buildings in Cluj county – energy performance certificates

Business or sector Civil engineering, energy performance certification and energy audit for buildings

01.08.2010 – 01.12.2010

08.01.2013 – 14.10.2014

Civil engineer

S.C. CARTEL BAU S.A. Cluj-Napoca

I have prepared quotations, technical and financial proposals for participation in public tenders; I analysed tender specifications and tender documentation for participation in public auctions; verifying the documentation and analysing the technical project; preparing work situations, respectively site coordination on the FIDIC infrastructure project in Bihor county, contract CL8, contract value: 7.023.879,40 Euro - position: Deputy Project Manager

Business or sector Civil engineering (execution)

15.01.2011 – 15.05.2012

Structural engineer

S.C. EURO CONSTRUCT S.R.L. Cluj – Napoca, Romania

Main activities and responsibilities:

- o I performed structural design - DTAC, PT+DTE

References:

- Structural rehabilitation (by cladding) of 8 chimneys related CT – residential buildings P+10E, Cluj Napoca – DTAC+PT
- Large fountain design in the project “Modernization of the Theatre Square Tg. Mureș” – PT
- Structural analysis for concrete slab above ground, 2000 square meters – National Operetta Theatre Bucharest – PT
- Structural rehabilitation of Community center building – Bobalna – DTAC + PT
- Residential building P+M, Jucu – DTAC+PT
- Residential building P+M – steel structure, Dâmbu Rotund Neigh., Cluj-Napoca – DTAC + PT
- Residential building D+P+E+M, Gruia Neigh., Cluj-Napoca – DTAC+PT
- Residential building P+M, Cluj-Napoca – DTAC + PT
- Residential building P (S = 300 sqm), Cluj – Napoca – DTAC+PT
- Extension house D+P+M, Cluj-Napoca – DTAC + PT

Business or sector Structural design of buildings

01.07.2009 – 01.09.2009

Technical drafter, student trainee

S.C. ARTIFEX ENGINEERING S.R.L. Cluj-Napoca

Reference project:

- o Residential block building – AMVIC system – Florești, Cluj county

Business or sector Structural design of buildings**EDUCATION AND TRAINING**

01.10.2012 – 11.01.2019

PhD in Civil Engineering and Building Services**Certificate serial J no 0033877 / Qualification awarded: MAGNA CUM LAUDE**TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF CIVIL ENGINEERING,
DEPARTMENT OF CIVIL ENGINEERING AND MANAGEMENT

Title of Ph.D. Thesis “Analysis of the energy performance of non-residential buildings through numerical modelling techniques and applied artificial intelligence” (in Romanian)

During the doctoral stage I supported the project, respectively the scientific research reports:

- o 3rd Research report “Contributions regarding the energy performance assessment methodology of non-residential buildings” – 23 September 2015
- o 2nd Research report “Contributions regarding energy optimized construction details” - 15 July 2014
- o 1st Research report: “State of the art in the energy design of industrial buildings” – 24 January 2014
- o Scientific research project: “Aspects regarding the energy efficiency of industrial buildings” – 15 July 2013

2015-2016

Brunel student code: 1617999/1

Grade: A / 6 ECTS / Level 5

BRUNEL UNIVERSITY LONDON, UNITED KINGDOM**POSTGRADUATE COURSE: ME5625_CN - MEETING OF ENERGY PROFESSIONAL SKILLS**

2010-2012

MSc Degree in Civil Engineering

Diploma series A no. 0094824 Year 2012

Overall average of academic years: 9.89 / Graduation exam grade: 10 (Scale 1 to 10)

Ranking 3/47 graduates

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, FACULTY OF CIVIL ENGINEERING

MASTER: HYGROTHERMAL AND STRUCTURAL PATHOLOGY AND REHABILITATION OF BUILDINGS

2010-2011 Energy auditor for buildings
 Diploma series I no. 0011499 Year 2011
 Overall average graduation: 10 / Graduation exam grade: 10
 TECHNICAL UNIVERSITY OF CLUJ-NAPOCA - THE DEPARTMENT FOR CONTINUING
 EDUCATION AND ACADEMIC POSTGRADUATE STUDIES (DECIDFR – TUCN)
**POSTGRADUATE COURSE: ENERGY AUDIT FOR BUILDINGS 232 (TWO HUNDRED THIRTY
 TWO) HOURS**

2006-2010 Bachelor degree:
 Diploma series C no. 0058046 Year 2010
 Overall average of academic years: 9.61 / Graduation exam grade: 10
 Ranking 6/235 graduates
 TECHNICAL UNIVERSITY OF CLUJ-NAPOCA - FACULTY OF CIVIL ENGINEERING
 SPECIALIZATION: CIVIL, INDUSTRIAL AND AGRICULTURAL CONSTRUCTIONS (CCIA)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2
French	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills ▪ good communication skills

Organizational/managerial skills ▪ Managerial skills developed within the CL8 project (2013-2014) developed in S.C. Cartel Bau S.A., from the position of Deputy Project Manager, having subordinated about 70 people.

Computer skills ▪ good command of Microsoft Office™ tools, SAP2000, ROBOT, AUTOCAD STRUCTURAL DETAILING, ALL ENERGY, THERM, WINDOW, ENERGYPLUS, MATHCAD, COMSOL

Driving licence ▪ B

ADDITIONAL INFORMATION

Publications *ISI / BDI indexed papers*

A. M. Măgurean, "nZEB into the existing building fund as an affordable solution", in IOP Conf. Series: Earth and Environmental Science, vol. 664, p. 012057, 2021. DOI: 10.1088/1755-1315/664/1/012057

A.M. Măgurean, L. Czumbil, D. L. Manea, and D. D. Micu, "Artificial intelligence based prediction model for the long-term heat flux losses through ground applied to large non-residential buildings," *Procedia Manuf.*, vol. 32, pp. 434–441, 2019.

A.M. Măgurean, "Case Study of NZEB Implementation Into an Early Stage of the Design Phase for a New Residential Building," *Procedia Manuf.*, vol. 32, pp. 450–457, 2019.

A. M. Măgurean, „Evaluation of the Thermal Performance of Composite Insulated Panels with Metallic Skin through Steady-State Numerical Analysis – Part 1” in *IOP Conf. Ser.: Mater. Sci. and Eng.*, vol. 586, p. 012032, 2019

A. M. Măgurean, „Evaluation of the Thermal Performance of Composite Insulated Panels with Metallic Skin through Steady-State Numerical Analysis – Part 2” in *IOP Conf. Ser.: Mater. Sci. and Eng.*, vol. 586, p. 012033, 2019

A. M. Măgurean, L. Czumbil, and D.D. Micu, „Artificial Intelligence Based Method for the Long Term Heat Losses Calculation Applied to Large Slabs On Ground”, in 2019 International Conference on Clean Electrical Power (ICCEP), 2019, pp. 510–517. DOI: 10.1109/ICCEP.2019.8890116

A.M. Măgurean, „Studiu de caz: Implementare concept NZEB în clădiri publice existente (spital județean)”, in volumul *Conferinței Naționale a AAECR*, ediția a XIII-a, Brașov, 2019

A.M. Măgurean, "An analysis of the influence of emissivity in the heat transfer for constructive details of composite insulated panels with metallic skin under summer and winter conditions," in *C65 International Conference: Tradition and Innovation - 65 Years of Constructions in Transilvania*, 2018

S. Varga, H.-A. Petran, A. M. Măgurean, N. Petre, and M.-C. Niculuță, "Thermal bridge free passive house foundation design in the Romanian seismic region," in *Conference Proceedings of the 21st International Passive House Conference, Vienna, Austria, 2017*

A.M. Măgurean, L.-M. Lupan, and I. Moga, "Insulated Sandwich Panels - Thermal performance," in *Proceedings of the Second International Conference for PhD Students in Civil Engineering and Architecture (CE-PhD 2014)*, 2014, pp. 477–482

L.-M. Lupan, A. M. Măgurean, and I. Moga, "Comparative analysis of calculation methods for correct thermal resistance of construction elements made of steel structure," in *C60 International Conference: Tradition and Innovation - 60 Years of Constructions in Transilvania*, 2013. ISSN/ISBN: 978-973-662-903-7.

Book chapters

Pop O.G., Măgurean A.M., Pocola A.G., Ciocan M., Zaaoui A., și Balan M.C., „Performances of solar thermal collectors in different climatic conditions”, Springer Nature Switzerland, 2021, ISSN 2366-259X ISSN 2366-2603 (book chapter)

Ancuta M. Magurean, Octavian G. Pop, Adrian G. Pocola, Alexandru Serban and Mugur C. Balan (December 19th 2019). Einstein's Equation in Nuclear and Solar Energy [Online First], IntechOpen, DOI: 10.5772/intechopen.90574.

Available from: <https://www.intechopen.com/online-first/einstein-s-equation-in-nuclear-and-solar-energy>

Books

Ancuța Maria Măgurean, „Analiza performanței energetice a clădirilor nerezidențiale prin tehnici de modelare numerică și inteligență artificială aplicată”, Teză de doctorat, UTPRESS Cluj-Napoca, 2021. ISBN 978-606-737-516-9 nr pagini 251; Analiza performanțelor energetice a clădirilor nerezidențiale (utcluj.ro)

- International Projects**
- 2021 – ongoing, RE-COGNITION (REnewable COGeneration and storage techNOlogies IntegraTion for energy autonomous buildings)- grant agreement n° 815301, <https://re-cognition-project.eu/>
- 2020 – ongoing, SMEmPower Efficiency (A holistic framework for Empowering SME's capacity to increase their energy efficiency) - grant agreement n° 847132, <https://smempower.com/>
- 2015 – 2017, MEnS (Meeting of Energy Professional Skills), www.mens-nzeb.eu
- 2013–2016, European pilot-project **neZEH (Nearly Zero Energy Hotels)** - www.nezeh.eu, cofinanced by the European Union under the IEE Program (Intelligent Energy Europe) - complex energy audits for 16 buildings hotels in seven European countries (Sweden, France, Greece, Italy, Romania, Spain and Croatia), three of which are located in Romania in Braşov and Covasna counties. The project was *presented in the European Parliament, Brussels*, on 17.03.2016
- Conferences**
- participation at the International Conference on Clean Electrical Power (ICCEP), Otranto, Italy, 2019
 - participation at the XIIIth Conference of AAECR (Association of Energy Auditors for Buildings in Romania), Brasov, 17 May 2019
 - Participation at the XIth Conference of AAECR (Association of Energy Auditors for Buildings in Romania), Bucharest, 12 May 2017
 - participation in the XIth INCD URBAN INCERC Conference "Integrated Researches for Resilient, Comfortable and Safe Cities", Bucharest, 13 May 2016
 - participation in the WORLD SUSTAINABLE ENERGY DAYS Conference - Wels, Austria, March 2015
- Honours and awards**
- During faculty I participated at the “Passive house contest”, organized by Technical University of Cluj-Napoca, in collaboration with AMVIC and Thermodul Design – **1st Prize** – Nov. 2009
 - Participation at “National session of student scientific communications”, with paper “Hygrothermal rehabilitation of existing building fund” – **Honourable mention** – may 2009
- Memberships**
- Member of AAECR - ROMANIAN ASSOCIATION OF ENERGY AUDITORS FOR BUILDINGS, since April 2019, Vice President since Nov. 2020, Vice President for Transylvania branch since Nov. 2019
- Member of OPSEC - PROFESSIONAL ORGANISATION OF BUILDING ENERGY SPECIALISTS (ROMANIA), since April 2016; member of Board of Directors and member of Technical Commission, between April 2018 – May 2019
- Training courses**
- | | |
|-----------------------|--|
| Period | December 2019 |
| Name of the organizer | INTERNATIONAL LIVING FUTURE INSTITUTE, EURAC RESEARCH Certificate / 2-5 December 2019, Venice, Italy |
| Diploma obtained | RESTORE Training School „Rethinking Technologies for Regenerative Indoor Environment WG4” - financed within European Union Programme HORIZON 2020 (COST Action CA166144 RESTORE) |
| Course name | |
| Period | May 2019 |
| Name of the organizer | Cluster pROnZEB, URBAN INCD INCERC Participation certificate nr. RO000562 / 22-23 May 2019, Bucharest |
| Diploma obtained | Train the trainer course: nZEB energy renovation of buildings - funded by the European Union Program Horizon 2020, under grant agreements no. 649810 and 754059 (Train-to-NZEB and Fit-to-NZEB) |
| Course name | |
| Period | April 2017 |
| Name of the organizer | PROFESSIONAL ORGANISATION OF BUILDING ENERGY SPECIALISTS (OPSEC) |
| Diploma obtained | Certificate of participation / 22.04.2017, Cluj-Napoca / Lecturer |
| Course name | Professional energy auditors training course "Energy Efficient Modern HVAC Installations" and "Role of the Energy Auditor in Accessing European Funds under the ROP 2014-2020, Investment Priority 3.1B" (lecturer with this presentation) – in Romanian |

Period	February 2017
Name of the organizer	NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT IN URBAN PLANNING AND SUSTAINABLE TERRITORIAL DEVELOPMENT - URBAN-INCERC ROMANIA
Diploma obtained	Certificate of attendance no. RO000006/ 8-9 February 2017, Bucharest
Course name	NZEB BASICS - TRAINING OF TRAINERS (www.train-to-nzeb.com) TRAIN TO nZEB TRAINER – coordinator: Horia Petran, Ph.D, Head of Energy Performance of Buildings at INCĐ URBAN-INCERC Bucharest
Period	November 2016
Name of the organizer	ROMANIAN ASSOCIATION OF ENERGY AUDITORS FOR BUILDINGS (AAECR)
Diploma obtained	Certificate of participation 369 / 19.11.2016, Cluj-Napoca
Course name	Professional energy auditors training course “The evaluation of complex thermal installations within the building energy audit. Case study”
Period	November 2016
Name of the organizer	PROFESSIONAL ORGANISATION OF BUILDING ENERGY SPECIALISTS (OPSEC)
Diploma obtained	Certificate of participation / 05.11.2016, Cluj-Napoca
Course name	Professional energy auditors training course “Basic concepts regarding the use of solar energy in preparing DHW and as contribution to space heating”
Period	April 2016
Name of the organizer	PROFESSIONAL ORGANISATION OF BUILDING ENERGY SPECIALISTS (OPSEC)
Diploma obtained	Certificate of participation / 16.04.2016, Cluj-Napoca
Course name	Professional energy auditors training course “Legislative updates regarding the professional activity of the building energy auditors”
Period	November 2015
Name of the organizer	MEnS – Meeting of Energy Skills H2020 EU funded project – 649773
Diploma obtained	Certificate of Attendance 25-27 November 2015, London, UK
Course name	1 st MEnS Front Meeting of Skills – Interdisciplinary Training Course for construction and building professional
Period	September 2014
Name of the organizer	ROMANIAN ASSOCIATION OF ENERGY AUDITORS FOR BUILDINGS (AAECR)
Diploma obtained	Certificate of participation 445/ 27.09.2014, Târgu Mureș
Course name	Professional energy auditors training course “The determination of energy consumption due to mechanical ventilation and air conditioning - cooling in the energy performance certification”
Period	January 2014
Name of the organizer	GOVERNMENT OF ROMANIA, MINISTRY OF LABOUR, AM POSDRU, OPERATIONAL PROGRAMME HUMAN RESOURCES DEVELOPMENT 2007-2013 “Increasing adaptability of workers and enterprises” – agreement: POSDRU/81/3.2/S/59614
Diploma obtained	Certificate of participation 1228 / 31.01.2014
Course name	Professional energy auditors training course "Energy Auditor for Buildings (Requirements for Energy Efficient Buildings under European Legislation - Case Studies and Good Practices - COR214138".

Certifications

Energy auditor for buildings – AE Ici
Certificate of attestation issued by Ministry of Regional Development and Public Administration serial VSA no. 02408, issued on 06 May 2019

Energy auditor for buildings – AE IIci
Certificate of attestation issued by Ministry of Regional Development and Public Administration serial DA no. 02069, issued on 07 July 2014

Project manager - COR code 242101
Certificate of graduation serial I No. 00061768, issued on 14 October 2013

Date: 31.01.2022

