



## Europass Curriculum Vitae



### INFORMATII PERSONALE

**Nume** MARINESCU Corneliu

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**Nationalitatea** Romana

### EXPERIENTA PROFESIONALA

**Perioada** 1975-prezent

**Functia sau postul ocupat** Profesor actualmente professor asociat pensionar

• **Principalele activitati si responsabilitati** **Cursuri predate:** Electronica de putere, Surse de Energie (Regenerabile), Electrotehnica  
**Cercetare:** Electronica de putere, Surse de Energie Regenerabile.

**Numele si adresa angajatorului** Universitatea Transilvania din Brasov, Bd. Eroilor, 29, Brasov, 500036, ROMANIA

• **Tipul activitatii sau Sector de activitate** **Educatie-Cercetare**

**Perioada** 1973-1974

**Functia sau postul ocupat** Inginer, superviizind sectia de locomotive Diesel-electrice

**Numele si adresa angajatorului** Depoul de Locomotive Brasov,

• **Tipul activitatii sau Sector de activitate** transport

**Perioada** 1971-1973

**Functia sau postul ocupat** Inginer

**Numele si adresa angajatorului** Cercetator stiintific

• **Tipul activitatii sau Sector de activitate** R&D Institutul de Studii si Cercetari Transporturi, Bucuresti

**2003-2020**

**Conducator de doctorat** in domeniul.Inginerie Electrica din 2003  
**Mentor PostDoc** din 2010

**2019-prezent**

**Coordonator Scola Doctorala de Inginerie Electrica** pina la 30 septembrie 2024

### EDUCATIE SI FORMARE

|                                                                                                                          |                                                                        |                                           |  |  |              |            |  |  |        |         |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------|--|--|--------------|------------|--|--|--------|---------|--|
| Perioada                                                                                                                 | 1991                                                                   |                                           |  |  |              |            |  |  |        |         |  |
| Tipul calificarii/Diploma obtinuta                                                                                       | Doctor Inginer                                                         |                                           |  |  |              |            |  |  |        |         |  |
| • Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala | Universitatea Politehnica Bucuresti, ROMANIA                           |                                           |  |  |              |            |  |  |        |         |  |
| • Nivelul de clasificare a formei de instruire/invatamant                                                                | Studii Doctorale                                                       |                                           |  |  |              |            |  |  |        |         |  |
| Perioada s                                                                                                               | 1971                                                                   |                                           |  |  |              |            |  |  |        |         |  |
| Tipul calificarii/Diploma obtinuta                                                                                       | Diploma Inginer                                                        |                                           |  |  |              |            |  |  |        |         |  |
| Principal subjects/occupational                                                                                          | Inginerie Electrica                                                    |                                           |  |  |              |            |  |  |        |         |  |
| • Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala | Universitatea Transilvania din Brasov                                  |                                           |  |  |              |            |  |  |        |         |  |
| Nivelul de clasificare a formei de instruire/invatamant                                                                  | Invatamint superior                                                    |                                           |  |  |              |            |  |  |        |         |  |
| Competente personale                                                                                                     |                                                                        |                                           |  |  |              |            |  |  |        |         |  |
| LIMBA MATERNA)                                                                                                           | Romana                                                                 |                                           |  |  |              |            |  |  |        |         |  |
| LIMBI STRAINE CUNOSUTE                                                                                                   | 1. Engleza                                                             |                                           |  |  |              | 2.Italiana |  |  |        |         |  |
| • abilitatea de a citi                                                                                                   | f. bine                                                                |                                           |  |  | Bine         |            |  |  |        |         |  |
| • abilitatea de a scrie                                                                                                  | f.bine                                                                 |                                           |  |  | satisfacator |            |  |  |        |         |  |
| • abilitatea de a vorbi                                                                                                  | f. bine                                                                |                                           |  |  | bine         |            |  |  |        |         |  |
| Competente Sociale                                                                                                       | Capacitate probata de lucru in echipa<br>Capacitate buna de comunicare |                                           |  |  |              |            |  |  |        |         |  |
| Indeplinire punctaj Profesor                                                                                             | Nr. crt.                                                               | Domeniul de activitate                    |  |  |              |            |  |  |        | Punctaj |  |
|                                                                                                                          | 1                                                                      | Activitatea didactică / profesională (A1) |  |  |              |            |  |  |        | 191.6   |  |
|                                                                                                                          | 2                                                                      | Activitatea de cercetare (A2)             |  |  |              |            |  |  |        | 2220    |  |
|                                                                                                                          | 3                                                                      | Recunoașterea impactului activității (A3) |  |  |              |            |  |  |        | 7540    |  |
|                                                                                                                          | TOTAL                                                                  |                                           |  |  |              |            |  |  | 9951,6 |         |  |

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|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Competente Organizationale<br>Si de cercetare | Colaborare internationala ca rezultata a mai mult de 17 ani de cooperare cu EU Universities si alte organizati prin participarea la 4 EU Tempus Program Projects, 2 "Socrates" Program Projects, 2 Leonardo Projects de tip EU Educational Programs, un proiect FP6 un proiect LIFE cu component cercetare.<br>1996-present: Coordonator al 15 EU/national projects cistigate prin competitie<br>1996-2019 Coordonator al laboratorului de cercetare POWERELMA .                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
|                                               | 1. "Echipament de actionare cu pila de combustie pentru electrocare" Contract 1599/2001, încheiat prin câștigarea licitației MEC in programul RELANSIN.                                                                                                                                                                                                                                                                                                                                                                                                                | Titular de contract.<br>Responsabil de contract , in parteneriat cu ICPE SAERP ( Conducator de proiect), Univ.Politehnica Bucuresti.                                                                                                                                                                                                                                                                                        | 2001-2003                                        |
|                                               | 4. Contract IDEI no. 134/2007<br>5 Contract Parteneriate no. D1 11 0004<br>6. Contract Parteneriate no. D3 21 062<br>7. Contract Parteneriate no. D3 22 134                                                                                                                                                                                                                                                                                                                                                                                                            | Titular contract<br>Responsabil partener<br>Responsabil partener<br>Responsabil partener                                                                                                                                                                                                                                                                                                                                    | 2007-2010<br>2007-2010<br>2007-2010<br>2008-2011 |
|                                               | Proiecte internationale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
|                                               | FP6:CRISTAL , anul 2007-2009<br><br>Project full title: CONTROL OF RENEWABLE INTEGRATED SYSTEMS TARGETING ADVANCED LANDMARKS<br>Proposal / Contract no.: 038406/DG TREN                                                                                                                                                                                                                                                                                                                                                                                                | Lider de workpack. ,<br>lider institutional                                                                                                                                                                                                                                                                                                                                                                                 | 2007-2009                                        |
|                                               | 4 proiecte educationaleTempus: JEP 2818, S-JEP CONEET, S-JEP TRUST , TEMIS;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | activitatea de coordonare a proiectului Tempus TEMIS lider institutional Universitatii Transilvania",                                                                                                                                                                                                                                                                                                                       | 1992-2001                                        |
|                                               | 2 proiecte educationale Socrates: <b>Socrates Minerva</b> : Minerva RE2U (Romanian eUniversity) nr. 100693-CP-1-2002-RO-MINERVA-M                                                                                                                                                                                                                                                                                                                                                                                                                                      | coordonator/ membru in echipa de coordonare.                                                                                                                                                                                                                                                                                                                                                                                | 1999-2007                                        |
|                                               | Proiect LIFE, "SUSTAINHUTS, <b>LIFE15 CCA/ES/000058</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | lider institutional                                                                                                                                                                                                                                                                                                                                                                                                         | 2016-2020                                        |
|                                               | Proiect RETRACT ERANet LAC <b>HORIZON 2020</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | lider institutional                                                                                                                                                                                                                                                                                                                                                                                                         | 2017-2019                                        |
|                                               | APTITUDINI SI COMPETENTE TEHNICE :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cunostiinte avansate in power electronics( PE) in special in domeniile:<br>- sisteme convertor-masina<br>- renewable energy sources-RES si interfete electronice pentru ele<br>- tractiune electrica<br>Conducator de doctorat atestat din 2003<br>Mentor PostDoc din 2010<br>11 monografii, 7 manuale didactice, 202 articole stiintifice ( din care 136 in reviste si conferinte internationale majoritatea de nivel ISI) |                                                  |
| LUCRARI RECENTE SEMNIFICATIVE                 | 1. C. Marinescu, Design Consideration regarding a Residential Renewable based Microgrid with EV Charging Station capabilities. <i>Energies</i> 2021, <i>Volume</i> 14, Issue 16, 5085, <a href="https://doi.org/10.3390/en14165085">https://doi.org/10.3390/en14165085</a><br>2. C. Marinescu, <i>Progress in the Development and Implementation of Residential EV Charging Stations Based on Renewable Energy Sources. Energies</i> <b>2023</b> , <i>Volume</i> 16, Issue 1, 179, <a href="https://doi.org/10.3390/en16010179">https://doi.org/10.3390/en16010179</a> |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |

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|  | <p>3.I Serban, Sandra Cespedes, <b>C.Marinescu</b>, et al., <i>Communication requirements in Microgrids: a practical survey</i>, IEEE Acces, DOI 10.1109/ACCESS, 2020, FI 4,08,.</p> <p>4. Andrei Marinescu, Adam Taylor, Siobhan Clarke, Ioan Serban, Corneliu Marinescu, "Optimizing Residential Electric Vehicle Charging under Renewable Energy: Multi-Agent Learning in Software Simulation and Hardware-in-the-loop Evaluation",Wiley- International Journal of Energy Research, vol. 43, no. 8, June 2019, pp.3853-3868 - <i>ISI Journal</i>. <a href="https://doi.org/10.1002/er.4559">https://doi.org/10.1002/er.4559</a>, FI: 3,3</p> <p>5. Ioan Serban, Corneliu Marinescu, <i>Control Strategy of Three-Phase Battery Energy Storage Systems for Frequency Support in Microgrids and with Uninterrupted Supply of Local Loads</i>, IEEE TRANSACTIONS ON POWER ELECTRONICS, VOL. 29, NO. 9, SEPTEMBER 2014,pp 5010-5021, FI=7,2 ;</p> <p>.6 L. Barote, C. Marinescu, <i>Software method for harmonic content evaluation of grid connected converters from distributed power generation systems</i>, <b>Energy</b> 66 (2014) 401e412, , FI: 7,5</p> <p>5. L. Barote, C. Marinescu and M. N. Cirstea, <i>Control Structure for Single-Phase Stand-Alone Wind-Based Energy Sources</i>, IEEE TRANSACTION ON INDUSTRIAL ELECTRONICS, vol. 60, no. 2, pp. 764- 772, Feb. 2013. DOI: 10.1109/TIE.2012.2206346FI 7,5</p> <p>6.I. Serban, R. Teodorescu, C. Marinescu, Energy Storage Systems Impact on the Short-Term Frequency Stability of Distributed Autonomous Microgrids, an Analysis Using Aggregate Models, ", IET Renewable Power Generation, vol 7, no. 5, Sept. 2013, pp. 531-539. <b>Lucrare premiata cu the IET Premium Awards 2015</b></p> <p>7. L. Barote, <b>C. Marinescu</b>, <i>Current-Controller Effectiveness for Grid-Connected Converters: Comparative Case Studies</i>, Journal of energy engineering, vol. 144, no. 1 February 2018 – <b>FI: 1.944, SRI: 0.862.</b></p> <p>8. D. Munteanu, I. Serban, L. Barote, <b>C. Marinescu</b>, <i>Dynamic performance analysis of a photovoltaic power plant with integrated storage for microgrids dynamic support</i>, Journal of energy engineering, accepted – <b>FI: 1.944, SRI: 0.862.</b></p> <p>9. I. Serban,C. Marinescu "Aggregate load-frequency control of a wind-hydro autonomous microgrid", <i>Renewable Energy Journal</i>, Elsevier, 2011, <b>36</b>, (12), pp. 3345-3354, SRI 1,424</p> <p>10. C.P. Ion, C. Marinescu, "Autonomous micro hydro power plant with induction generator", <i>Renewable Energy Journal</i>, Elsevier, 2011, <b>36</b>, (8), pp. 2259-2267, doi:10.1016/j.renene.2011.01.028 SRI 1,424</p> <p>11. C.P. Ion, C. Marinescu , Three -Phase Induction Generators for Single-Phase Power Generation: An Overview, <i>Renewable &amp; Sustainable Energy Reviews, Elsevier</i>, 2013</p> <p>12. C.P. Ion, C. Marinescu, <i>Stand-alone micro-hydro power plant with induction generator supplying single phase loads</i>, J. Renewable Sustainable Energy <b>5</b>, 013105 (2013)</p> <p>15. I. Serban, C. Marinescu <i>A sensorless control method for variable-speed small wind turbines</i> <i>Renewable Energy Journal</i>, Elsevier, doi:<a href="http://dx.doi.org/10.1016/j.renene.2011.12.018">http://dx.doi.org/10.1016/j.renene.2011.12.018</a></p> <p>16. Ioan Serban, Corneliu Marinescu, <i>Power Quality Issues in a Stand-Alone Microgrids Based on Renewable Energy</i>,Revue Roumaine des Sciences Technique, serie Electrotechnique et Energetique, Tome 53, 3, p.285-293, Bucuresti, 2008</p> <p>17. BAROTE, L., MARINESCU, C. <i>Modeling and Operational Testing of an Isolated Variable Speed PMSG Wind Turbine with Battery Energy Storage</i> <i>Advances in Electrical and Computer Engineering, ISI Review ; Volume 12, Issue 2, Year 2012, On page(s): 81 – 88;ISSN: 1582-7445, e-ISSN: 1844-7600;Digital Object Identifier: 10.4316/AECE.2012.02014</i></p> |
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| <b>Informatii Aditionale</b> | Membru IEEE 2002<br>Membru fondator CNAE<br>Membru ARAE |
| <b>.Premii</b>               | <b>Detinator al premiului IET Premium Awards 2015</b>   |

4/3/2025