# Curriculum vitae

## Personal information

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| First name(s) / Surname(s) | **Marcu Marius-Daniel** |
| Address(es) | Petrosani, C-tin Mille street, no. 3/31, code 332029 |
| Telephone(s) | Mobile: +40 724561150 |
| Fax(es) | |
| E-mail | marcu@upet.ro |
| Nationality | Romanian |
| Date of birth | 27.03.1966 |
| Gender | Male |

## Desired employment / Occupational field

**Associate Professor, University of Petrosani**

## Work experience

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| Occupation or position held | Associate Professor |
| Main activities and responsibilities | Holder classes: Static Converters, Electrical Machines, Modeling and Simulation |
| Name and address of employer | University of Petrosani, România |
| Type of business or sector | Specialized scientific and technical activities |

## Education and training

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| Dates | 1996-2000 |
| Title of qualification awarded | Economist |
| Principal subjects/occupational skills covered | Finance |
| Name and type of organisation providing education and training | University of Petrosani Universității, 20, Romania |
| Dates | 1991-1998 |
| Title of qualification awarded | PhD Degree |
| Principal subjects/occupational skills covered | Doctor of Technical Sciences, Electrical machines,device and drive specialization |
| Name and type of organisation providing education and training | University of Petrosani Universității, 20, Romania |
| Dates | 1997 |
| Title of qualification awarded | Specialization |
| Principal subjects/occupational skills covered | Electrical machines and drives |
| Name and type of organisation providing education and training | Newcastle upon Tyne, Great Britain |
| Dates | 1985-1990 |
| Title of qualification awarded | Engineer |

| Principal subjects/occupational skills covered | Electrical machines |
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| Name and type of organisation providing education and training | Electrical Faculty, Polytechnic Institute "Traian Vuia" Timisoara |

## Personal skills and competences

**Other language(s)**

**Self-assessment**

*European level (*)*

| | Understanding | | | | Speaking | | | | Writing | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| **English** | C1 | experienced user | C2 | experienced user | C2 | experienced user | C1 | experienced user | C1 | experienced user |
| **French** | B1 | independent user | B1 | independent user | A2 | basic user | A2 | basic user | B1 | independent user |

*(*) Common European Framework of Reference for Languages*

**Professional skills and competences**

Skills in the areas of:
- Electrical machines and drives
- Modeling and Simulation
- Static converters
- Power quality

**Scientific skills and competences**

1. Marcu, M., Orban, M., Yanakiev, K., Kartzelin, E. - *Static Converters and Their Applications*. „*St. Ivan Rislki" Publishing House, Sofia, 2001*
2. Marcu, M., Orban, M. – A.C. **Switch Controllers, Cycloconverters and Inverters**. *S.C. XXL EXIM S.R.L., România, 2001*.

### Scientific papers

1. Uţu, I., Marcu,M., Stochiţoiu, D. **Study on the Distorting Running Produced in Mine Electric Networks by Motor Drive System with Converter Feed.** MicroCAD '94 Int. Comp. Science Conf. Proc, Section F-Electrical – Electronic Engineering. 3 March 1994, Miskolc, Ungaria, pag. 16-22.
2. Marcu,M., Stochiţoiu, D., Uţu, I. **Microprocessor-Based Field Oriented Control of Induction Motor Drives for the Mining Equipment.** XII-Int. Conf. on Aut. in Mining, 13-15 sept. 1995, Glivice, Polonia, pag. 263-267.
3. Orban, M., Stochiţoiu, D., Marcu,M. **About the Possibility of Using some Control Rules of the Bucket Wheel Excavators.** XII-Int. Conf. on Aut. in Mining, 13-15 sept. 1995, Glivice, Polonia, pag. 621-624.
4. Marcu,M., Uţu, I., Stochiţoiu, D. **A Digital Vectorial Controlled Induction Motor Drive System**. Automatic Control and Testing Conf. Proceeding, 23-24 Mai, Cluj-Napoca, 1996, pag.327-332.
5. Uţu, I., Marcu,M., Orban, M. **DSP-Bsed Induction Motor Drive System with Parameter Estimation**. ICAMC'98 13th Int. Committee on Automation in Mining Conf. Proc., High Tatras, Slovacia,1998, pag. 77-80.
6. Marcu,M., Uţu, I. **DSP microcontroller for Vector Control of an Induction Motor Drive System**. CNAE'98 - 9th Nat. Conf. On Electrical Drives Proc., Craiova, 1998, pag. 289-292.
7. Marcu, M., Niculescu, T. **Kalman Filter for Induction Motor Speed Estimation and its Application in Vector Control Drive System.** Annals of University of Petrosani, Electrical Engineering, Vol 3, Petrosani 2001, pag. 70-77.
8. Marcu, M., Niculescu,T. **Digitally-Controlled Single Phase PWM Inverter.** Annals of University of Petrosani, Electrical Engineering, Vol 5, Petrosani 2003, pag. 49-52.
9. Marcu, M., Uţu, I. **Sensorless Direct Torque of Induction Motor Used in Winding Machines.** MicroCAD'2004 Int. Computer Science Conf. Proc. Section H-Electrotechnics-Electronics. 18-19 March 2004, Miskolc, Ungaria, pag.33-40.

10. Marcu, M., Uţu, I., Niculescu, T. **Parameter Estimation for Induction Motor Drive System.** MicroCAD'2006 Int. Computer Science Conf. Proc. Section J-Electrotechnics-Electronics. 16-17 March 2006, Miskolc, Ungaria, pag.29-34.
11. Marcu, M., Uţu, I., Popescu, F., Pana, L. **Simulation Software for Static Switch Controllers.** Annals of University of Petrosani, Electrical Engineering, Vol 9, Petrosani 2007, pag. 153-159.
12. Marcu, M., Orban, M. **Some aspects of bucket wheel excavators driving using PWM converter – asynchronous motor.** Advanced Techniques in Computing Sciences and Software Engineering. Editura Spriengerlink, 2010, 289-294, DOI: 10.1007/978-90-481-3660-5_49 , pag. 341-346.
13. Marcu, M., Popescu, F., Samoila, L. **Modeling and Simuling Power Active Filter Using Method of Generalized Reactive Power Theory.** Proceeding of the 2011 IEEE International Conference on Computer Science and Automation Engineering, June 10-12, 2011, Shanghai, China, ISBN 978-1-4244-8725-7
14. Marcu, M., Samoila, L., Popescu, F. **Simulation Software for Power Electronics.** Proceeding of Computer Science On-line Conference, 28 Ianuarie 2011, Cehia**.**

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| Organisational skills and competences | Vice-Rector of Academic, Administrative and Financial Management |
| Computer skills and competences | Microsoft Office<br>MATLAB-SIMULINK |