



Curriculum vitae Europass

Personal Information



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Nationality Romanian

Date of birth 18.11.1983

Sex Male

Professional experience

- **Period** 25.02.2008-present
- **Job** "Ștefan cel Mare" University of Suceava, Faculty of Electrical Engineering and Computer Science, Department of Electrical Engineering
- **Field of activity** Electrical engineering
- **Function**
 - university teacher
 - 30.09.2012-present - lecturer, Department of Electrical Engineering, Faculty of Electrical Engineering and Computer Science, „Ștefan cel Mare” University of Suceava
 - 28.07.2011-30.09.2012– teaching assistant, Department of Electrical Engineering, Faculty of Electrical Engineering and Computer Science, „Ștefan cel Mare” University of Suceava
 - 25.02.2008-28.07.2011– university preparator, Department of Electrical Engineering, Faculty of Electrical Engineering and Computer Science, „Ștefan cel Mare” University of Suceava
- **Main activities and responsibilities** Courses, laboratory applications, project, research
- **Areas of competence**
 - Electric drives
 - Electric drive systems
 - Speed control of electric drive systems
 - Power electronics
 - Numerical methods
 - Control of electric drive systems with asynchronous motors
 - Control with programmable controllers of electrical systems
- **Period** 01.08.2007-01.03.2008
- **Workplace** S.C. ROND SRL
- **Field of activity** design of installations
- **Function** design engineer
- **Main activities and responsibilities** design activity
- **Areas of competence** electrical, thermal and sanitary installations

Education and Trening

PHD

- **Period** | October 2007 – September 2010
- **Educational institution** | "Gheorghe Asachi" Technical University of Iasi
 - **Doctoral field** | Electrical Engineering
 - **Doctoral thesis** | High-performance drive systems with high-speed induction motors
- **The year of defending the thesis** | September 30, 2010
- **Degree obtained upon graduation** | Scientific title of DOCTOR in the field of ELECTRICAL ENGINEERING, DOCTOR DIPLOMA series H, no. 0005427

MASTERS

- **Period** | October 2007 – June 2009
- **Educational institution** | „Ștefan cel Mare” University of Suceava, Faculty of Electrical Engineering and Computer Science
 - **Field** | Electrical Engineering
- **Name of the study program** | Advanced techniques in machines and electric drives
 - **The degree obtained at graduation** | MASTER'S DEGREE, in the specialization ADVANCED TECHNIQUES IN DRIVE AND ELECTRICAL MACHINES with DISSERTATION EXAM H series, no. 0040912

UNIVERSITY STUDIES

- **Period** | October 2002 – June 2007
- **Educational institution** | „Ștefan cel Mare” University of Suceava, Faculty of Electrical Engineering and Computer Science
 - **Specialization** | General Electrical Engineering
- **The degree obtained at graduation** | DIPLOMA ENGINEER in the field of Electrical Engineering, General Electrical Engineering specialization - series G, no. 0015512

- **Period** | October 2003 – June 2007
- **Educational institution** | „Ștefan cel Mare” University of Suceava, Teacher Training Department
 - **Specialization** | General Electrical Engineering
- **Title obtained at graduation** | Graduation certificate - series G, no. 0033477

PRE-UNIVERSITY STUDIES

- **Period** | September 1998 – June 2002
- **The educational institution** | Group Nr. 1 Suceava (Current name: "Alexandru Ioan Cuza" Technical College Suceava)
 - **Profile** | car electromechanical
 - **Diploma obtained at graduation** | Baccalaureate Diploma; series T, no. 0154224
Certificate of Professional Competences - Electromechanic Auto specialization - qualification level II - series A, no. 0086743

COURSES

- **Period** | 05.08.2013 ÷ 23.08.2013
- **Qualification** | Training preparation, Training activities, Evaluation of training participants, Application of special training methods and techniques, Training marketing, Design of training programs, Organization of training programs and internships, Evaluation, review and quality assurance of programs and of training courses
- **Main subjects studied** |
- **professional skills acquired** |
- **Training provider** | S.C. QCERT SRL Suceava
- **Level in the national or international classification** | Cod COR 242401

Foreign languages

English	• Reading	Very good
	• Writing	good
	• Conversation	good
Russian	• Reading	good
	• Writing	good
	• Conversation	good

Other mentions:

- Public support within the “Gheorghe Asachi” Technical University of Iași, Faculty of Electrical Engineering, of the scientific research report on the topic: "CURRENT STATE OF RESEARCH REGARDING INDUCTION MOTOR DRIVE", February 2009.
- Public support within the Technical University “Gheorghe Asachi” Iași, Faculty of Electrical Engineering, of the scientific research report on the topic: "MODELING AND SIMULATION OF ELECTRICAL SYSTEMS WITH INDUCTION MOTORS", July 2009.
- Public support at the “Gheorghe Asachi” Technical University of Iași, Faculty of Electrical Engineering, of the scientific research report on: "CONTRIBUTIONS TO THE REALIZATION OF PERFORMANT DRIVE SYSTEMS FOR HIGH SPEED INDUCTION MOTORS", April 2010.
- Master's degree held at the “Ștefan cel Mare” University of Suceava, Faculty of Electrical Engineering with the topic: "MODELING AND SIMULATION OF ACTION SYSTEMS WITH INDUCTION MOTORS", June 2009.
- Member of the organizing committee of the student contest "ELSTUD" organized annually by the Faculty of Electrical Engineering within the University of Suceava,
- Member of the organizing committee of the international conference “INTERNATIONAL SYMPOSIUM ON ELECTRICAL ENGINEERING AND ENERGY CONVERTERS” organized biannually by the Faculty of Electrical Engineering, “Ștefan cel Mare” University of Suceava

Scientific activity:

1. Mihai RAȚĂ, **Ciprian AFANASOV** – UC384x - High Performance Current Mode Controllers – Internațional Symposium on Electrical Engineering and Energy Converters – ELS2007, Universitatea „Ștefan cel Mare” Suceava, ISBN 973-666-162-8, pag.213-216
2. **Ciprian AFANASOV**, *Techniques for Implementing a Model Simulated on a Physical Drive Vector Control*, 3rd International Symposium on Electrical Engineering and Energy Converters – ELS 2009 Universitatea “Ștefan cel Mare” Suceava, Volum propriu, ISSN 2066-853X, Pag. 137-142.
3. Mihai RAȚĂ, Cristian DRANCA, Gabriela RAȚĂ, **Ciprian AFANASOV**, *Step-up Converter for Students Teaching*, 3rd International Symposium on Electrical Engineering and Energy Converters – ELS 2009 Universitatea “Ștefan cel Mare” Suceava, Volum propriu, ISSN 2066-853X, Pag. 199-202.
4. **Ciprian AFANASOV**, Leon MANDICI, Alecsandru Simion, Mihai RATA, Sorin MIHAI (2010), RAPID TECHNIQUE FOR IMPLEMENTING A MODEL SIMULATED OF VECTOR CONTROL SYSTEM WITH TWO-PHASE INDUCTION MOTOR ON A HIGH POWER INVERTER, ANALELE UNIVERSITATII DIN CRAIOVA: SERIA INGINERIE ELECTRICA, Craiova, ISSN: 1842-4805, Vol: II, Nr: 34, pag. 206-211
5. **Ciprian AFANASOV**, Mihai RATA, Leon MANDICI, Alecsandru Simion, Sorin MIHAI (2010), indirect vector control of a two-phase induction motor with position controller and three phase inverter, ANALELE UNIVERSITATII DIN CRAIOVA: SERIA INGINERIE ELECTRICA, Craiova, ISSN: 1842-4805, Vol: II, Nr: 34, pag. 248-251
6. Mihai RATA, Leon MANDICI, Gabriela RATA, MIRCEA STELUTA, **Ciprian AFANASOV** (2010), Equipment for the Study of Motion Graphs Optimization in Electric Drive Systems, ANALELE UNIVERSITATII DIN CRAIOVA: SERIA INGINERIE ELECTRICA, Craiova, ISSN: 1842-4805, Vol: II, Nr: 34, pag. 142-146
7. **Ciprian AFANASOV**, Mihai RATA, Eugen HOPULELE, Alecsandru Simion (2010), INDIRECT VECTOR CONTROL OF A TWO-PHASE INDUCTION MOTOR WITH POSITION CONTROLLER AND EIGHT-TRANSISTOR INVERTER, ANALELE UNIVERSITATII DIN CRAIOVA: SERIA INGINERIE ELECTRICA, Craiova, ISSN: 1842-4805, Vol: II, Nr: 34, pag. 153-156
8. Eugen HOPULELE, Mihai Gavrițaș, **Ciprian AFANASOV** (2010), OPTIMAL DESIGN OF A HYBRID TRIGENERATION SYSTEM WITH STIRLING ENGINE, 6th International Conference on Electrical & Power Engineering, EPE 2010, Vol: 1, 28-30 Octombrie, 2010, Iasi, Romania, ISSB/ISBN: 978-606-13-0077-8, Pagini: 267-271
9. **Ciprian AFANASOV**, Leon MANDICI, Alecsandru Simion, Mihai RATA, Sorin MIHAI (2010), TECHNIQUE FOR IMPLEMENTING A MODEL SIMULATED OF VECTOR CONTROL SYSTEM WITH TWO-PHASE INDUCTION MOTOR, 6th International Conference on Electrical & Power Engineering, EPE 2010, Vol: 2, 28-30 Octombrie, 2010, Iasi, Romania, ISSB/ISBN: 978-606-13-0078-5, Pagini: 157-160
10. **Ciprian AFANASOV**, Mihai RATA, Alecsandru Simion, Eugen HOPULELE, Sorin MIHAI (2010), INDIRECT VECTOR CONTROL OF AN TWO-PHASE INDUCTION MOTOR WITH SPEED CONTROLLER AND THREE

- PHASE INVERTER, 6th International Conference on Electrical & Power Engineering, EPE 2010, Vol: 2, 28-30 Octombrie, 2010, Iasi, Romania, ISSB/ISBN: 978-606-13-0078-5, Pagini: 165-168
11. **Ciprian AFANASOV**, Leon MANDICI, Alecsandru Simion, Mihai RATA, Sorin MIHAI (2010), INDIRECT VECTOR CONTROL OF AN TWO-PHASE INDUCTION MOTOR WITH BASED SPEED CONTROLLER AND EIGHT-TRANSISTOR INVERTER, 6th International Conference on Electrical & Power Engineering, EPE 2010, Vol: 2, 28-30 Octombrie, 2010, Iasi, Romania, ISSB/ISBN: 978-606-13-0078-5, Pagini: 161-164
 12. Adrian MALANCIUC, Alecsandru SIMION, Leonard LIVADARU, Adrian MUNTEANU, **Ciprian AFANASOV**, (2011), FEM-based Analysis of a Hybrid Synchronous Generator with Skewed Stator Slots, ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, Volume 11, Number 4, 2011, Digital Object Identifier: 10.4316/AECE.2011.04002, Pagini: 9-14
 13. **Ciprian AFANASOV**, Mihai RATA, (2011), Position Control of a Two-phase Induction Motor with Three Phase Inverter, BULETINUL AGIR, nr. 4 • octombrie-decembrie 2011, Bucuresti, Romania, IISSN – L 1224-7928, Pagini: 135-138
 14. Eugen HOPULELE, Leon MANDICI, **Ciprian AFANASOV**, , (2011), Method and Device for the Study of Magnetic Fields in Electrical Machines, BULETINUL AGIR, nr. 4 • octombrie-decembrie 2011, Bucuresti, Romania, IISSN – L 1224-7928, Pagini: 253-258
 15. Gabriela RATA, Mihai RATA, V. Popa, Crenguta BOBRIC, **Ciprian AFANASOV** (2011), Study of Power Quality into a Substation and at a Consumer , 4th International Conference on Modern Power Systems, MPS 2011, Vol: 52, Nr. 5 ,2011, ACTA ELECTROTEHNICA, 17-20 Mai, 2011, Cluj-Napoca, Romania, ISSN: 1841-3323, Pagini: 401-404
 16. **Ciprian AFANASOV**, Mihai RATA, (2011), Position Control of a Two-phase Induction Motor with Three Phase Inverter, 4rdInternational Symposium on Electrical Engineering and Energy Converters – ELS2011, 22-23 Septembrie, 2011, Suceava, Romania, ISSB/ISBN: 2066-835X., Pagini: 143-146
 17. Eugen HOPULELE, Leon MANDICI, **Ciprian AFANASOV**, , (2011), Method and Device for the Study of Magnetic Fields in Electrical Machines, 4rdInternational Symposium on Electrical Engineering and Energy Converters – ELS2011, 22-23 Septembrie, 2011, Suceava, Romania, ISSB/ISBN: 2066-835X., Pagini: 269-274
 18. **Ciprian AFANASOV**, (2012), STEP-DOWN VOLTAGE CONVERTER FOR STUDENTS STUDY, Buletinul AGIR nr. 3/2012 • iunie-august, Bucuresti, Romania, IISSN – L 1224-7928, Pagini: 293-298
 19. RAȚĂ Mihai, RAȚĂ Gabriela, CERNOMAZU Dorel, MANDICI Leon, **AFANASOV Ciprian** (2012), UNCONVENTIONAL MOTORS BASED ON VIBRATION MOTION, International Review of Electrical Engineering - IREE, Naples, ISSN: 1827- 6660, vol: 7, nr: 5, pag. 5542-5548
 20. **AFANASOV Ciprian**, HOPULELE Eugen, MANDICI Leon, RAȚĂ Mihai (2013), STEP-DOWN VOLTAGE CONVERTER, ACTA ELECTROTEHNICA (COPERNICUS Master List Journal-<http://journals.indexcopernicus.com/masterlist>), ISSN: 1841-3323, vol: 54, nr: 5, pag. 1-5
 21. RAȚĂ Mihai, Adrian JURALE, RAȚĂ Gabriela, MANDICI Leon, CHATZIATHANASIOU Vasilis, **AFANASOV Ciprian** (2013), VARIABLE-FREQUENCY DRIVE WITH MC3PHAC, Buletinul AGIR, Bucuresti, ISSN: 1224-7928, nr: 3, pag. 219-223
 22. **AFANASOV Ciprian**, RAȚĂ Mihai, MANDICI Leon (2013), SPEED CONTROL OF DC MOTOR USING FOUR-QUADRANT CHOPPER AND BIPOLAR CONTROL STRATEGY, Buletinul AGIR, Bucuresti, ISSN: 1224-7928, nr: 3, pag. 253-259
 23. **AFANASOV Ciprian**, PRODAN Cristina, PENTIUC Radu (2013), Speed control of DC motor using four-quadrant chopper and asynchronous control strategy, 9-TH INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND POWER SYSTEMS - SIELMEN 2013, vol: CD PROCEEDINGS, 15-18 Octombrie, 2013, CHIȘINĂU, Moldova, ISSB/ISBN: 978-606-13-1560-4, pag: 373-378
 24. **AFANASOV Ciprian** (2013), D.C. DRIVE SYSTEM USING FOUR-QUADRANT CHOPPER, Buletinul Institutului Politehnic din Iași, Secțiunea Electrotehnică, Energetică și Electronică, Iași, ISSN: 1223-8139, vol: Tomul LIX (LXIII), nr: Fasc. 4, pag. 173-181
 25. **AFANASOV Ciprian**, MANDICI Leon, RAȚĂ Mihai (2014), Design and Control of the Swing Gates with Implementation of Multiple Command Systems, Analele Universitatii Eftimie Murgu , Resita, ISSN: 1453-7397, vol: 1, nr: 2, pag. 393-400
 26. RAȚĂ Mihai, RAȚĂ Gabriela, MANDICI Leon, CERNOMAZU Dorel, PRODAN Cristina, **AFANASOV Ciprian**, NITAN Ilie (2012), Efficient Gate Drive Circuit for IGBT, INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2012), 25-27 Octombrie, 2012, Iasi, Romania, ISSB/ISBN: 978-1-4673-1172-4, pag: 427-431
 27. **AFANASOV Ciprian**, RAȚĂ Mihai, RAȚĂ Gabriela, (2016), OPTIMIZAREA DIAGRAAMELOR DE MIȘCARE PENTRU SISTEMELE DE ACȚIONARE CU MOTOR PAS CU PAS, Buletinul AGIR, București, ISSN: 1224-7928, Supliment nr. 1/2016, Inginerie Electrică și Converteoare Energetice, pag. 3-8
 28. RAȚĂ Mihai, RAȚĂ Gabriela, **AFANASOV Ciprian**, (2016), SOLUȚIE PENTRU STUDIUL PRECIZIEI DE POZIȚIONARE A UNUI MOTOR PAS CU PAS, Buletinul AGIR, București, ISSN: 1224-7928, Supliment nr. 1/2016, Inginerie Electrică și Converteoare Energetice, pag. 30-34
 29. **AFANASOV Ciprian**, PENTIUC Radu Dumitru (2016), CONVERTOR DE FRECVENȚĂ CU CONTROLER MC3PHAC, Buletinul AGIR, București, ISSN: 1224-7928, Supliment nr. 1/2016, Inginerie Electrică și Converteoare

- Energetice, pag. 62-67
30. **CIPRIAN AFANASOV**, RADU DUMITRU PENTIUC, CONTROLUL VITEZEI MOTOARELOR PAS CU PAS FOLOSIND MEDIUL DE PROGRAMARE MATLAB SIMULINK, FORUMUL REGIONAL AL ENERGIEI PENTRU EUROPA CENTRALĂ ȘI DE EST – FOREN 2016, 12-16 iunie 2016, Costinești, România. Lucrare publicată pe CD.
 31. RAȚĂ Mihai, GRAUR Adrian, RAȚĂ Gabriela, **AFANASOV Ciprian**, PRODAN Cristina, (2016), Researches in Stefan cel Mare University of Suceava about Electric Vehicle, ACTA ELECTROTEHNICA (COPERNICUS Master List Journal- <http://journals.indexcopernicus.com/masterlist>), ISSN: 2344-5637, vol: 57, nr: 3-4, pag. 375-379
 32. **AFANASOV Ciprian**, RAȚĂ Mihai, (2016), Three-phase frequency converter with MC3PHAC controller, ACTA ELECTROTEHNICA (COPERNICUS Master List Journal- <http://journals.indexcopernicus.com/masterlist>), ISSN: 2344-5637, vol: 57, nr: 3-4, pag. 339-443
 33. HOLMAN George Eduard, **AFANASOV Ciprian**, (2017), ORIENTATION SYSTEM OF PV PANELS AFTER SUN, Journal of Engineering Studies and Research, ISSN: 2068-7559, vol: 23, nr: 3, pag. 19-25
 34. RAȚĂ Mihai, RAȚĂ Gabriela, GRAUR Adrian, **AFANASOV Ciprian** (2018), PLC APPLICATION FOR BRUSHLESS MOTOR POSITIONING, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași Volumul 64 (68), Numărul 2, 2018 Secția ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ, pag.73-81, http://www.bulipi-eee.tuiasi.ro/archive/2018/fasc.2/p6_f1_2018.pdf (ISSN 1223-8139) – revistă de categorie B+ (CNCSIS) indexată de către Index Copernicus, getCITED și Ulrich's
 35. Mihai Rata, Gabriela Rata, Constantin Filote, Maria Simona Raboaca, Adrian Graur, **Ciprian Afanasov**, Andreea-Raluca Felseghi (2020), The Electrical Vehicle Simulator for Charging Station in Mode 3 of IEC 61851-1 Standard, Energies 2020, 13, 176; doi:10.3390/en13010176, www.mdpi.com/journal/energies, ISSN 1996-1073, revista ISI
 36. Ciprian Bejenar, **Ciprian Afanasov** (2020), Preliminary Analysis of Full-Bridge DC-DC Power Converters with Hard-Switching Topology and Silicon Carbide (SiC) Semiconductors, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Paper Id: 288883, revista ISI

Date: 27.01.2021

Signature