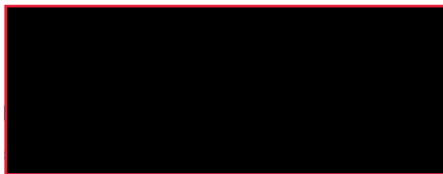
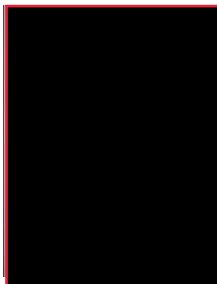


INFORMAȚII PERSONALE

Cosman Sorin Iulian



EXPERIENȚA PROFESIONALĂ

01/04/2020–Present

Asistent Universitar

Universitatea tehnică din Cluj-Napoca

Domeniul Inginerie Electrică

01/04/2014–Present

Administrator

SC SURYA PRODUCT SRL-D, Cluj-Napoca (Romania)

Domeniul Automatizări, Inginerie Electrică

10/2014–present

Asistent Cercetare / Resposanbil contract subsidiar

Universitatea tehnică din Cluj-Napoca

- PTE – “Series of brushless electric servomotors with soft-composite SMC 4SERVO”
- PED – Demonstrative experimental project “Experimental testing and validation of the VAWT concept with rotating rotors (64PED/2017)”
- ESPESA – “Strengthening the Research Potential of CAREESD in the Field of Electromechanical Systems and Power Electronics for Sustainable Applications”
- ADEPT - “Advanced Electric Powertrain Technology” Technical University of Cluj-Napoca
- SMiLE-EV – “Intelligent charging stations, fixed and MobiLe, for electric transmission (PCCDI36/2018)”
- URBIVEL - "Advanced technologies for intelligent urban electric vehicles" POC-A1-A1.2.3-G-2-15- 11/01.09.2016
- DITARTIS - Network of Excellence in Digital Technologies and AI Solutions for electromechanical and Power Systems Applications
- AROBS - Dezvoltarea de catre Arobs a unui nou sistem de testare unitati centrale de control destinate vehiculelor, Cod SMIS 2014+:123359
- IRUM - Funicular forestier cu acționare hibridă și recuperare de energie, MySMIS: 120499

12/2012–10/2014

Operator CNC

Operator pe o masina de electroeroziune cu fir cu comanda numerica

Universitatea Tehnica din Cluj-Napoca

15/08/2005 - 02/01/2009

Constructor

Pronostone - Madrid (Spania)

Domeniul Construcțiilor

EDUCAȚIE ȘI FORMARE

10/2015–11/2022

Doctor în Inginerie Electrică

Universitatea Tehnica din Cluj-Napoca

- 01/09/2013–12/06/2015 **Master**
Universitatea Tehnica din Cluj-Napoca
Sisteme electromecanice
- 01/09/2009–15/06/2013 **Licență**
Universitatea Tehnica din Cluj-Napoca
Electromecanica – Inginerie electrică
- 01/09/1999 - 01/06/2003 **Bacalaureat**
Colegiul National"Constantin I. Carabella" - Targoviste
Științe ale naturii

APTITUDINI ȘI COMPETENȚE PERSONALE

Limbi străine cunoscute

| | ÎNȚELEGERE | | VORBIRE | | SCRIERE |
|----------|------------|--------|----------------------------|-----------|---------|
| | Ascultare | Citire | Participare la conversație | Ascultare | |
| Engleză | B2 | B1 | B2 | B1 | B1 |
| Spaniolă | C1 | C1 | C1 | C1 | C1 |
| Bulgară | C1 | A1 | C1 | C1 | A1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Competențe și aptitudini organizatorice

(2005 - 2009) In Spania, in ocuparea timpului liber, am fost cofondatorul si administratorul unei fundatii "Micul Samaritean" pentru ajutorarea oamenilor strazii, lucru care m-a ajutat in dezvoltarea aptitudinilor organizatorice si administrative In Cluj-Napoca particip ca voluntar in organizarea evenimentelor din cadrul fundatiei Hadasa pentru oamenii cu dizabilitati..
(2014- 2018) Organizarea concursurilor studentești "Motion Under Control"
(2017-2018) Organizarea ElectroSummer pentru elevii din casa XI si XII

Competențe și aptitudini tehnice

In contextul unui internship cu firma AbsolutIT am dobandit aptitudini tehnice in depanare de calculatoare si electronice.
Stagiile de practica au fost facute la Emerson, in departamentul testarilor motoarelor electrice.

Competențe și aptitudini de utilizare a calculatorului

Cunostinte solide in utilizarea calculatorului – software (Office, Autocad, Mathcad, Labview,) si hardware

Cursuri și workshopuri

- „Testing electrical machines” June 2011, Cluj-Napoca at Emerson company, Leroy Somer
- „ Getting things done” - Personal Effectiveness and Communication 14-15 June 2016, Siemens, Belgium.
- „INSIGHTS” - the Insights approach June 2016, Leuven, Belgium.
- „High-speed Drives for sustainable electromechanical systems” 08 Februarie 2017, Eindhoven.
- „Grant Writing : From PhD to Scientific Leadership,, 09 Februarie 2017, Eindhoven.
- "Optimized and Systematic energy management on EV/HEV" 09 May 2017, Rheinisch-Westfälische Aachen.
- "Technology Transfer and Innovation management ,, 14 march 2018, Orizont 2020 ESPESA, Stuttgart Universität.

Driving licence B

ADDITIONAL INFORMATION

Publicații științifice

- [1] Sebastian Kula, Sorin I. Cosman “ Switched Reluctance Motor Model Implemented on PXI FPGA Target” Iunie 30, 2016 - Fundamentals of Electrical Engineering (ISFEE), International Symposium - 10.1109/ISFEE.2016.7803165
- [2] Sorin I. Cosman ; Claudia S. Martis ; Radu Martis “Coupled electric - thermal model for SR-drives”, iunie 2017 - 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), 2017, ISBN 978-1-5090-6690-2, DOI: 10.1109/ELMA.2017.7955466 ISI
- [3] Sorin I. Cosman ; Claudia S. Martis “SRM Flux Linkage Profile Measurement and Estimation Methods” Sep 8, 2017 - EEMODS'17 - Energy Efficiency in Motor Driven Systems 6 - 8 SEPTEMBER 2017, ROME
- [4] Marius Drancă ; Mihai Chirca ; Sorin I. Cosman ; Florin Jurca ; Ștefan Breban “Experimental Validation of a Permanent-Magnet Micro-Wind Turbine Generator with Counter Rotating Rotors” Oct 2017 - CIEM 2017 - Energy saved today is asset for future; 8th International Conference on Energy and Environment
- [5] Sorin I. Cosman, Raul Nemes, Claudia Martis “Design, building and testing a high voltage-low current drive for SRMs used for automotive applications” iunie 12, 2018 - I&CPS Europe - Palermo, IEEE International Conference on Environment and Electrical Engineering, 10.1109/EEEIC.2018.8494503
- [6] Marius Alexandru Drancă ; Mihai Chirca ; Sorin I. Cosman ; Ștefan Breban “Design Analysis of a Permanent Magnet Brushless Generator with Two Counter Rotating Rotors for Small-Wind Turbine” oct 2018 International Conference on Applied and Theoretical Electricity (ICATE)
- [7] Sorin I. Cosman, Vasile Ionuț Boancă, Claudiu Oprea, Claudia Martiș,” Design, Building and Testing of a Low Voltage-High Current Drive for MRCs Used for HVAC Applications”, International Conference and Exposition on Electrical and Power Engineering (EPE). Iasi Oct 18, 2018, 10.1109/ICEPE.2018.8559845
- [8] Sorin I. Cosman, Radu A. Martiș, Claudiu Hangea, Claudia S. Martiș,” Scaled MRC and Drive Unit for HVAC Systems in Electric Vehicles”, the 11th international symposium on advanced topics in electrical engineering - Bucharest, Romania, Mar 28, 2019, 10.1109/ATEE.2019.8724932
- [9] Alexandru R. Iusan, Păunescu Mihai, Sorin I. Cosman, Nicolae M. Bîrlea,” Aplication of blade electrodes in electroporation and his importance in electrical properties of skin”, the 11th international symposium on advanced topics in electrical engineering - Bucharest, Romania, Mar 28, 2019, 10.1109/ATEE.2019.8724919
- [10] Sorin I. Cosman, Cristina A. Moldovan, Rareș A. Iușan, Claudiu Oprea, Claudia S. Martiș,” Development of an Automated System to Optimize Greenhouse Resource Consumption”, Modern Power Systems Conference 8 th Edition Cluj-Napoca, May 21, 2019, 10.1109/MPS.2019.8759727
- [11] Sorin I. Cosman, Cristina A. Bilatiu, Claudia S. Martiș, “Development of an Automated System to Monitor and Control a Greenhouse”, 15th International Conference on Engineering of Modern Electric Systems (ICEMES 2019), Jun 13, 2019
- [12] Maria Nuțu, Horia F. Pop, Sorin I. Cosman, Andreea Nicorici, Claudia Martiș, “A Machine Learning Perspective for Order Reduction in Electrical Motors modelling”, 21st International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2019, Sep 4, 2019
- [13] Cristina-Adina Bilațiu ; Sorin I. Cosman ; Radu-Andrei Martiș ; Claudia Steluța Martiș ; Silvan Morariu “ Identification and evaluation of electric and hybrid vehicles propulsion systems “ Oct 3, 2019 ELECTRIC VEHICLES INTERNATIONAL CONFERENCE & SHOW - EV2019
- [14] Alexandru Rares Iusan ; Nicolae Marius Bîrlea ; Sorin I. Cosman ; Mihai Păunescu “The voltage effect on electrical parameters of the skin, ECG electrodes interface” Nov 21, 2019 - IEEE International conference E-HEALTH and Bioengineering "EHB2019", Iasi, Romania
- [15] Sorin I. Cosman , Iulia Văscan, Cristina Bilațiu, Marius Drâncă, Rareș Iușan, Claudia Martiș - “EDM cutting for rapid prototyping of a PMBG” - May 2020 - IEEE International conference Elektro2020, Taormina, Italy
- [16] Sorin I. Cosman , Iulia Văscan, Cristina Bilațiu, Adriana Tintelecan, Claudia Martiș, Bica Zorlescu – “Design and Analysis of a Heating, Ventilation and Air Conditioning System for Electric Vehicles” Jun 2020 - Speedam 2020 – Sorrento

[17] I. Cosman , C. Bilatiu, R. Marțiș, C. Marțiș, M. Silvan "Identifying the Propulsion System Characteristics for a Battery Electric VehicleIdentifying the Propulsion System Characteristics for a Battery Electric Vehicle" - 11th International Conference and Exposition on Electrical and Power Engineering · Oct 23, 2020

[18]] I. Cosman, Florin P., C. Marțiș, "Modeling And Scaling Procedure Of An SRM For Vehicle Electric HVAC System", Speedam 2022 · Jun 22, 2022

[19]] I. Cosman, C. Marțiș "Evaluation and comparison of the performance of air conditioning systems from fully electric cars and cars with a thermal engineEvaluation and comparison of the performance of air conditioning systems from fully electric cars and cars with a thermal engine", EPE 2022 · Oct 20, 2022

[20] S. Cosman, D. Lates, "Electric drive system behavior simulation at the forestier cablewayelectric drive system behavior simulation at the forestier cableway", Journal - Acta Marisiensis. Seria Technologica, vol. 20 (XXXVII), no. 1, 2023 · May 31, 2023

[21]] I. Cosman, C. Marțiș "Simulation and Analysis of Electrical Loads used for Automotive Electrical CircuitsSimulation and Analysis of Electrical Loads used for Automotive Electrical Circuits", The 10th International Conference on Modern Power Systems, Cluj-Napoca · Jun 21, 2023

[22] Marius. D., Razvan I., Claudiu O., "Design of Permanent Magnet Synchronous Motor for Hybrid Sled-Type Forest CablewayDesign of Permanent Magnet Synchronous Motor for Hybrid Sled-Type Forest Cableway, ACEMP-OPTIM 2023 ISTANBUL · Sep 3, 2023

[23] Sorin C., Claudia M., Hangea. C.,"Simulation of electrical loads and electronic modules for automotive applicationsSimulation of electrical loads and electronic modules for automotive applications, International Conference INTER-ENG 2023 Interdisciplinarity in Engineering 5 - 6 October 2023 U.M.F.S.T. Târgu Mureș Romania · Oct 6, 2023

[24] Sorin C., Claudia M , "Simulation of a Hybrid Forest Cableway System with Energy RecoverySimulation of a Hybrid Forest Cableway System with Energy Recovery, International Conference INTER-ENG 2023 Interdisciplinarity in Engineering 5 - 6 October 2023 U.M.F.S.T. Târgu Mureș Romania · Oct 6, 2023