

INFORMATII  
PERSONALE

## ERDEI ZOLTAN



LOCUL DE MUNCA PENTRU  
CARE SE CANDIDEAZĂ  
POZIȚIA  
LOCUL DE MUNCĂ DORIT  
STUDIILE PENTRU CARE SE  
CANDIDEAZĂ

Conferențiar, Universitatea Tehnica din Cluj Napoca, Centrul Universitar Nord Baia Mare, Facultatea de Inginerie

## EXPERIENȚA PROFESIONALĂ

Scrieți datele (de la - până la)

**01/02/2005 - prezent**

Universitatea Tehnica din Cluj Napoca, Centrul Universitar Nord din Baia Mare, Facultatea de Inginerie

Inginer electrotehnist

Sef Lucrari

Coordonarea lucrarilor stiintifice, conducerea cursurilor, a lucrarilor de laborator si a seminariilor. Activitati de predare (curs / seminar), cercetare stiintifica, consultatii, indrumare.

**01/09/2002 - 31/01/2005**

Universitatea Politehnica din Bucuresti

Inginer electrotehnist

Asistent Universitar

Conducerea lucrarilor de laborator si a seminariilor

## EDUCAȚIE ȘI FORMARE

Scrieți datele (de la - până la) 2016 - Certificat de specialitate pentru laboratoarele de testare și calibrare conform ISO 17025: 2005, organizat de TUV Austria

2016 – Certificare pentru evaluarea riscului de vătămare la locul de muncă la Universitatea Tehnică din Cluj-Napoca Dr. Victor BABEȘ 62A Baia-Mare, Maramureș 430083

2016 – Certificat pentru sănătatea și securitatea la locul de muncă organizat de Camera de Comerț și Industrie din Maramureș

2012 - Diplomă de studii postuniversitare academice - Informatică aplicată și software la Universitatea Tehnică din Cluj-Napoca Dr. Victor BABEȘ 62A Baia-Mare, Maramureș 430083

2010 - Certificat de absolvire pentru formator organizat de Camera de Comerț și Industrie din Maramureș

2008 - Studii doctorale în domeniul Inginerie electrică – „Contribuții la analiza toleranțelor circuitelor electrice analogice” -3 examene și 3 referate – susținute, Universitatea Politehnica București, Facultatea de Inginerie Electrică

2004 - Universitatea Politehnica București – media licență 10  
Inginerie electrică  
Diploma de Masterat

01/10/1997 - 01/07/2002 – Universitatea Politehnica București, Facultatea de Inginerie Electrică – media licență 10  
Inginerie electrică asistată de calculator  
Diploma de licență

## COMPETENTE PERSONALE

Limba(i) maternă(e) Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	B2	B2	B2	B2	B2
	Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.				
Maghiara	B2	B2	B2	B2	B2
	Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.				

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat  
Cadrul european comun de referință pentru limbi străine

**Competențe de comunicare** Competențe de comunicare și interrelaționare cu studenții și cadrele didactice, dobândite prin participarea responsabilă în cadrul unor proiecte de grup, prin desfășurarea activităților didactice cu studenții, prin activitățile de cercetare și prin participarea la conferințe științifice.

**Competențe organizaționale/manageriale** Competențe de construire a unui climat pozitiv, propice învățării, de stimulare a motivației studenților, de organizare a unor activități didactice sau de cercetare, de coordonare a practicii pedagogice a studenților, de asigurarea unui context adecvat desfășurării procesului instructiv educativ.

**Competențe dobândite la locul de muncă** Competențe de proiectare curriculară, de concepere și organizare a unor cercetări științifice, în domeniul educațional al ingineriei electrice.

**Competențe informatice** Abilități de operare PC (Microsoft Office, Internet, Power Point etc) ORCAD (PS Spice), FEM 2D&3D, Visual Basic + Access, One Space Design CAD, Autocad 2D&3D, Matlab, Labview, C++ / C

**Alte competențe** Competențe de Leadership dobândite prin conducerea departamentului de calitate (având în subordine 40 angajați) în cadrul fabricii Eaton Electro Productie SRL.

**Permis de conducere** Permis de conducere categoria B.

INFORMATII SUPLIMENTARE

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**Activitate stiintifica:**

Publicații  
Prezentări  
Proiecte  
Conferințe  
Seminarii  
Distincții  
Afilieri  
Referințe

1. INTERNATIONAL CONFERENCE ON INNOVATIVE IDEAS IN SCIENCE (IIS2015), IOP Conference Series-Materials Science and Engineering, 144
2. 9TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) , cod ISBN 978-1-4799-7514-3
3. International Conference on Applied Sciences (ICAS2016), IOP Conf. Series: Materials Science and Engineering 163
4. INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016), cod ISBN 978-1-5090-6128-0
5. 2016 IEEE 16TH INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING (EEEIC), cod ISBN 978-1-5090-2320-2
6. INNOVATIVE IDEAS IN SCIENCE 2016, IOP Conference Series-Materials Science and Engineering, 200
7. INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS Volume: 8 Issue: 4 Pages: 317-323
8. International Conference on Applied Sciences (ICAS2016), IOP Conf. Series: Materials Science and Engineering 163 , Z. Erdeiz, L.A. Dicso, L. Neamt, O. Chiver , Scopus

**Publicatii:**

1. COMPUTERS and SIMULATION in MODERN SCIENCE, Volume IV / Chapter 20: Power Transmission Line Magnetic Fields for different Phase Arrangements, WSEAS Press, ISBN 978-960-474-267-7, 2010
2. COMPUTERS and SIMULATION in MODERN SCIENCE Volume III / Chapter 6: End Winding Inductance of Three-Phase A.C. Machines, WSEAS Press 978-960-474-256-1, 2010
3. Symbolic equation for linear analog electrical circuits using Matlab, Zoltan Erdei, Luiza Alexandra Dicso, Liviu Neamt, Oliver Chiver, WSEAS TRANSACTIONS on CIRCUITS and SYSTEMS ISSN: 1109-2734, Issue 7, Volume 9, July 2010 pg.493.
4. ATECA Program – Analyzer of Tolerance of the Electric Analog Circuits Z. Erdei, Adanced Topics in Electrical Engineering ATEE 2008, Bucuresti Romania
5. Fast Monte - Carlo Tolerance Analysis Z. Erdei Proceedings of 8th International Workshop on Symbolic Methods and Applications in Circuit Design SMACD 2004 Krakow, Polonia, September 23-24.
6. Analyzer of Tolerance of the Electric Analog Circuits Erdei Z., Horgos M., Chiver O XXIII. microCAD, International Scientific Conference, 19-20 March, 2009, Miskolc, pp. 75-80, ISBN 978-963-661-866-7, ISBN 978-963-661-875-9
7. Comparison between basic analog and digital filters, Zoltan Erdei, Paul Borlan, Olivian Chiver, International Symposium on Embedded Systems Design and Applications Proceeding, ISBN: 978 - 606 - 536 - 096 – 9
8. Considerations regarding asynchronous motor rotor parameters determination by FEM, Chiver Olivian, Liviu Neamt, Eleonora Pop, Zoltan Erdei, International Symposium on Embedded Systems Design and Applications Proceeding, ISBN / ISSN 978 - 606 - 536 - 096 – 9

9. ATECA Program – Analyzer of Tolerance of the Electric Analog Circuits Advanced Topics in Electrical Engineering ATEE 2008, Bucuresti Romania, Erdei Zoltan, Circuits Advanced Topics in Electrical Engineering ATEE Bucuresti Romania, 2008
10. Analyzer of Tolerance of the Electric Analog Circuits, Erdei Zoltan, Horgos M., Chiver O, XXIII. microCAD, International Scientific Conference, 19-20 March, 2009, Miskolc, pp. 75-80, ISBN / ISSN 978-963-661-875-9, 2009
11. Measurements of electrical and electronic course support I, Erdei Zoltan <http://cee.ubm.ro/>
12. Measurements of electrical and electronic course support II, Erdei Zoltan <http://cee.ubm.ro/>
13. Electrical and electronic measurements – laboratory, Erdei Zoltan, <http://cee.ubm.ro/>
14. Engineering computing environments – course, Erdei Zoltan, <http://cee.ubm.ro/>
15. Măsurări electrice și electronice, Erdei Zoltan, Risoprint, ISBN 978-973-53-2328-8, 2019
16. Îndrumar de laborator măsurări electrice și electronice, Risoprint, ISBN 978-606-701-324-1, 2019
17. A Tearing Approach for Symbolic Analysis Based on Large-Change Multiparameter Sensitivities, Seminarul Național de Electrotehnică Teoretică SNET'03, Z. Erdei, M. Iordache, Lucia Dumitriu, Google Scholar
18. About the quality of power supply electricity to an industrial consumer, microCAD 2009, International Scientific Conference, march, 19-20, Miskolc, pp. 33-38, 2009, Horgoș Mircea Petrean L. E., Neamt L., Erdei Z, Google Scholar
19. Analysis and monitoring a connection to the electrical network for a industrial consumer, Erdei, M. Horgos, L. Petrean, Google Scholar
20. Approaches for the planning and implementation of Industry 4.0, Periodicals of Engineering and Natural Sciences 7 (1), pp. 375-380, C Barz, CK Jalba, Z Erdei, SML Hahn, Google Scholar
21. Aspects Regarding SF6 Switch Disconnecter Framework Design, Carpathian Journal of Electrical Engineering, vol.10, no.1, 2016, ISSN 1843-7583, Liviu NEAMT, Olivian CHIVER Zoltan ERDEI, Cristian BARZ, Index Copernicus
22. ATECA Program – Analyzer of Tolerance of the Electric Analog Circuits Advanced Topics in Electrical Engineering, Zoltan Erdei, Google Scholar
23. ATECA PROGRAM – Analyzer of Tolerance of the Electric Analog Circuits, Proceedings of the International Scientific Conference MicroCAD '2009, Miskolc (Ungaria), Section J (Electrotehnics and Electronics), ISBN: 978-963-661-875-9, 2009, Erdei, Z., Horgos, M., Chiver, O. Index Copernicus
24. Comparison between basic analog and digital filters, Zoltan Erdei, Paul Borlan, Olivian Chiver, Google Scholar
25. Considerations about medium voltage SF6 switch disconnecter framework design based on 3D electrostatic FEA, ISBN: 978-150902319-6, IEEEIC 2016 - International Conference on Environment and Electrical Engineering 29 August 2016, Neamt, L., Chiver, O., Erdei, Z., Barz, C., Scopus
26. Considerations about power system grounding for different soil structure, in EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, pp. 1034-1038, 2014; ISBN: 978-147995849-8; EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, Neamt, L., Chiver, O., Barz, C., Costea, C., Erdei, Z., Scopus
27. Considerations regarding asynchronous motor rotor parameters determination by FEM, in Carpathian Journal of Electrical Engineering, ISSN 1843-7583, vol. 4, no. 1, 2000. Chiver, L. Neamt, Z. Erdei, Eleonora Pop, Index Copernicus
28. Contributions to the calculation of the forces developed by the electromagnets using FEM Scientific Bulletin, Serie C, Vol. XXI. Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, Cod CNCSIS 610, ISSN 1224-3264, pag. 273-278, 2007., Horgoș, M., Neamț, L.,

- Chiver, O., Erdei, Z, Index Copernicus
29. Determination of system for wireless power transfer, ISBN: 978-147997514-3, 2015 9th International Symposium on Advanced Topics in Electrical Engineering, Horgos, M., Neamt, L., Erdei, Z., Barz, C., Zetea, O., Scopus
  30. Estimation of power cables magnetic fields in mine tunnels, in Journal of Sustainable Energy, vol. 2, no. 4, 2011., L. Neamt, M. Horgos, O. Chiver, Z. Erdei, Index Copernicus
  31. Fast Monte - Carlo Tolerance Analysis, Z. Erdei, Google Schola
  32. FEM Analysis of Squirrel Cage Induction Motor with Broken Bars, M.L. Piper, Z. Erdei, Google Scholar
  33. Induction motor analysis by finite elements method, in Journal of Electrical and Electronic Engineering, vol. 3, no. 2, pp. 51-54, 2010., Chiver O., Neamt, L., Erdei Z., Cristian Barz, Scopus
  34. Induction motor analysis by finite elements method, in Journal of Electrical and Electronic Engineering, vol. 3, no. 2, pp. 51-54, 2010., O. Chiver, C. Barz, L. Neamt, Z. Erdei, Scopus
  35. Large-Scale Circuit Analysis Using a New Reduced-Order Technique Based on State Equations, Mihai Iordache, Lucia Dumitriu, Zoltan Erdei, Google Scholar
  36. MANAGEMENT OF ELECTRICITY TO A COUNTY LIBRARY., in Carpathian Journal of Electrical Engineering, vol. 8, no. 1, 2014., Mircea HORGOS, Zoltan ERDEI, Cristian BARZ, Google Scholar
  37. Particular Aspects of Symbolic Analysis of the Analog Circuits with Exces Elements, Lucia Dumitriu, Mihai Iordache, Ion Matei, Zoltan Erdei, Google Scholar
  38. PRACTICAL APPLICATION WITH PLC IN MANIPULATION OF A ROBOTIC ARM., in Carpathian Journal of Electrical Engineering, vol. 8, no. 1, 2014., Cristian BARZ, Tihomir LATINOVIC, Zoltan ERDEI, Gherasim DOMIDE, Alina BALAN, Google Scholar
  39. Sensitivity in Circuit Design, Embedded Systems Design and Application, Z. Erdei, Google Scholar
  40. Study of salient poles synchronous generator by finite elements analysis, in 12th International Conference on Environment and Electrical Engineering, IEEEIC 2013, pp. 450-454, 2013., Chiver, O., Neamt, L., Horgos, M., Erdei, Z., Scopus
  41. Study regarding end winding inductance of three phase A.C. windings in a single layer, in Proceedings of the International Conference on Energy and Environment Technologies and Equipment, EEETE '10, pp. 22-26, 2010., Chiver, O., Petrean, L., Neamt, L., Erdei, Z., Scopus
  42. Symbolic equation for linear analog electrical circuits using matlab, in WSEAS Transactions on Circuits and Systems, vol. 9, no. 7, pp. 493-502, 2010.
  43. Symbolic equation using modified nodal analysis for linear electrical circuit using MATLAB, in Proceedings of the 4th European Computing Conference, ECC '10, pp. 73-75, 2010., Erdei, L.A. Dicso, L. Neamt, O. Chiver, Scopus
  44. The comparison between ORCAD and Matlab on tolerance analysis for analog circuit, L. Neamt, L.E. Petrean, O. Chiver, Z. Erdei, Scopus
  45. Tolerance analysis of analog circuits, M. Iordache, Lucia Dumitriu, Z. Erdei, Google Scholar
  46. Topological Techniques for Fast Symbolic Analysis of Large Analogue Integrated Circuits, Lucia Dumitriu, M. Iordache, Z. Erdei, Google Scholar
  47. Tree and Co-tree Circuits: Methods of Determination, M. Dumitrache, Z. Erdei, D. Niculae, Google Scholar