

CURRICULUM VITAE

PERSONAL INFORMATION

Name	SACERDOȚIANU DUMITRU
Address(es)	HENRI COANDA, bl.110G, entrance.1, ap.57, post code , CRAIOVA, ROMANIA
Telephone(s)	Personal: 0351-402424 Mobile: 0722132866
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E-mail(s)	dumitrusacerdotianu@yahoo.com
Nationality (-ies)	Romanian
Date of birth	18.12.1959

WORK EXPERIENCE

(Add separate entries for each relevant post occupied, starting from the most recent.)

Dates	1999 – present
Name and address of employer	NATIONAL INSTITUTE OF RESEARCH DEVELOPMENT AND TESTS FOR ELECTROTECHNICS - ICMET CRAIOVA, Calea București, no.144, Craiova, district Dolj
Type of business or sector	Research – development
Occupation or position held	Main scientific researcher III
Main activities and responsibilities	Research - electromechanical equipment development, monitoring and diagnostic equipment, responsible for complex project
Dates	1987 - 1999
Name and address of employer	NATIONAL INSTITUTE OF RESEARCH DEVELOPMENT AND TESTS FOR ELECTROTECHNICS - ICMET CRAIOVA, Calea București, nO.144, Craiova, district Dolj
Type of business or sector	Research – development
Occupation or position held	Design engineer
Main activities and responsibilities	Researsch - electromechanical equipment development, monitoring and diagnostic equipment, responsible for complex project.

<p style="text-align: center;">Dates</p> <p>Name and address of employer</p>	<p style="text-align: center;">1985 -1987</p> <p>Research Institute for Electrical Machines and Transformers ICSIT MTAE Calea București, no.144, Craiova, district Dolj</p>
<p>Type of business or sector</p>	<p>Technological design</p>
<p>Occupation or position held</p>	<p>Intern engineer, detached to ELECTROPUTERE CRAIOVA, Factory of Transformers</p>
<p>Main activities and responsibilities</p>	<p>Technologist Transformers department Approval and production of power transformers under AQ</p>
<p>EDUCATION AND TRAINING</p>	<p>1980-1985</p>
<p>Name and type of organisation providing education and training</p> <p>Principal subjects / occupational skills covered</p>	<p>UNIVERSITY OF CRAIOVA ELECTROTECHNICS FACULTY ELECTRIC DRIVES</p>
<p>Title of qualification awarded</p>	<p>Graduation diploma</p>
<p>Level in national or international classification</p>	<p>Education in national system</p>

Mother tongue	Romanian			
Other foreign language(s)				
	French	English	3rd language	Etc.
Reading	Good	Good		
Writing	Good	Good		
Speaking	Good	Good		
Artistic skills and competences Music, Painting, literature etc.	Music: folk music performed on keyboard instruments Growing fruit trees for family use			
Social skills and competences You live and work with others in a multicultural environment, you have a position based on communication or you perform an activity in which teamwork is essential. (for example culture, sports)	Good communication within work teams. Permanent identification of skills and preferences of colleagues in order to complete objectives and identification of solutions adopted by the whole team.			
Organisational skills and competences For example you coordinate and lead other people's activity, projects and manage budgets ; at work in voluntary work (for example culture and sports) and at home.	Coordinator of research, development and production projects, managing the project budget The activities were acquired during the design and research work I managed 6 research projects and participated in other 15 (see Annex 1)			
Technical skills and competences (computer work, specific kinds of equipment, machinery etc.)	<ul style="list-style-type: none"> • Computer use for preparation of technical documents (Drawings, diagrams, electronics, simulations, technical specifications, technical books, technical and scientific). 			

Driving licence(s)
Other skills and competences
Competences not mentioned
previously

- Using analogue and digital measuring equipment
 - Electric drives
- The activities were acquired during university studies, internship and design and research work

Yes

Good skills in testing, configuration and service of the monitoring equipment

Advanced user of Microsoft Office

specializations and qualifications

- Computing centre - Bucarest 1988

Programme: BASIC SOFTWARE AND SPECIFIC EQUIPMENTS
CPA (graduation certificate training course)

- University of Craiova – Electrotechnics Faculty, Regional centre of continuing education energetical Domain.

- Course industrial robots (1987 - 1988 – graduation certificate)

Course - News in electrical protection - 1998 (graduation certificate) ,
UNIVERSITY OF CRAIOVA

Course – Presentation requirements SR EN ISO/CEI 17025 : 2005,
RENAR 8-10 mai 2007 (graduation certificate)

Course – Estimating measurement uncertainty, RENAR 9-12 july 2007
(graduation certificate)

Course – Methods validation , RENAR 13-14 iulie 2007 (graduation
certificate)

Course – Amte 1, PRAM electrical engineers work in high voltage
power stations, FORMENERG 2008 (graduation diploma)

(mention other useful information for example: contact person, references)

Academic associated man at Electromechanics Faculty
UNIVERSITY OF CRAIOVA 1995-2001

PhD in Electrical Engineering

Thesis title: Contributions to improving equipment and technologies
for monitoring and diagnosing power transformers

Member of professional associations: electromagnetic compatibility

Training courses:

MR MASCHINENFABRIK REINHAUSEN GmbH –
REGENSBURG,
GERMANY, 2005

Additional information

Diploma of excellence in research in 2000 (awarded by the Government of Romania, National Agency for Science, Technology and Innovation , within the Romanian Science Week and the Fair of achievements of Romanian science and inventions), for Monitoring equipment for MONITRA power transformers (*also called Termocopy*).

Diplomas for: Equipment for on-line monitoring of isolated crossings of capacitor type:

- Gold Medal for Incentions Hall ARCA 2006, Zagreb 2006

- Silver Medal at International Inventions Budapest, Hungary, september 2006

- Silver Medal at the 55th World Salon of Inventions, Research and New Technologies

- Silver Medal al the X edition of World Salon of Inventions and New Technologies

- Excellency Diploma and gold medal at the International Inventions Salon -Proinvent 2008, Cluj Napoca.

Exchange of experience

UNIVERSITY of KARLSRUE , GERMANY 2006

Annexes

(List any items attached)

Experience in other programs: ANNEX 1

Papers published: ANNEX 2

Inventions and innovations : ANNEX 3

Date: 20.09. 2009

Signature

ANNEX 1**Experience in other programmes:**

Programme / Project	Position	Date from till
Execution and homologation transformers 400 KVA, 1000 KVA, 1600 KVA, in AQ conditions with destination CNE Cernavoda.	In charge	1985 - 1987
Study on the system microprocessor for stand engine series test c.a.	Collaborator	1987 - 1988
Technology of transformers final test	collaborator	1987 - 1988
Test technology of measurement transformers	collaborator	1987 - 1988
Study on the test system of RSV with microprocessor	collaborator	1987 - 1988
Completing the installation of relief by vibration with digital display.	collaborator	1988
Achievement data LOGI MUX system for electric multiple units with experiments on routes Cluj - Napoca - suburbs and Craiova - Bucarest.	collaborator	1987 - 1988
c.c. - c.a. converter - for supplying TV cameras equipment in the binding tests on diesel locomotives.	collaborator	1988
Researches and experiments on vibration stress relieving. Beneficiaries : companies with mechanical sections from Resita, Caransebes, Arad, Timisoara, Dragasani, Galati etc.	In charge theme	1987 - 1993
Researches and experiments on vibration molding of parts and steel structures with beneficiaries UPET Tirgoviste, Electroputere Craiova, IOB Bals, Autocamioane Brasov.	collaborator	1990 - 1994
Fast thyristor inverter to drive metro frame - experiments	collaborator	1992 - 1993
Chopper with GTO - 60 A.	collaborator	1994
Automatic system for drilling printed circuit boards.	collaborator	1990
Orizont 2000 Electronic device for measuring the hardness of metal surfaces - ROHARDIN	In charge theme	1997 - 1999
Orizont 2000 Microprocessor system for conversion and	In charge	1999 - 2001

display units elastic dynamic hardness into hardness units Brinell, Vickers	theme	
Orizont 2000 Pneumatic and telecontrol system for separators that equips medium voltage overhead power lines	In charge Theme	1999 - 2001
CALIST, 2001 equipment to oscilography the switching of adjustment under load switches interrupters	Project manager	2001-2004
AMTRANS, 2003: Technology and information system for metering energy consumption at electric locomotives	Participant at the project	2003-2005
Relansin, 2003: Modern systems of measurement and protection based on current and average voltage sensors associated with secondary monitoring devices made with microprocessor.	Participant at the project	2003-2005
Programme « Excellence Research » Module IV Mobile laboratory for metrological periodical monitoring of equipment of power transformers monitoring.	Project manager	2006 - 2008
SECTORAL programme 2007 Applying artificial intelligence methods in the diagnosis of incipient faults in power transformers	Project manager	2007 - 2008

ANNEX 2

Papers published

1. Nedelcuț, D., **Sacerdotianu, D.**, *Instalație cu microcontroler pentru monitorizarea funcționării și protecția transformatoarelor de putere - MONITRA /DUDP*, Al VII- lea Simpozion Național Tehnica Tensiunilor Înalte. Tendințe noi în coordonarea izolației și în tehnologie, 2001.
2. Nedelcuț, D., Marinescu, A., **Sacerdoțianu, D.**, *Realizări ale ICMET Craiova în domeniul monitorizării și diagnosticării unităților de transformare*, Conferința Națională și expoziția de energetică CNEE 2007, Sinaia, 7 – 9 noiembrie 2007.
3. Nedelcuț, D., **Sacerdoțianu, D.**, Pătru, I., Purcaru, I., Pirlog, C., *Realizări ale ICMET Craiova în domeniul monitorizării și diagnosticării unităților de transformare*, Simpozionul ” Transformatoare de putere”, Curtea de Arges, 2006.
4. Nedelcuț, D., Marinescu, A., **Sacerdoțianu, D.**, Pătru, I., Purcaru, I., *Considerații privind concepția și implementarea echipamentelor de monitorizare a transformatoarelor de putere*, CNE 2004 – Conferința Națională a Energiei, Forumul regional al Energiei, Neptun, 2004.
5. Nedelcuț, D., **Sacerdoțianu, D.**, Hurezeanu, I., Oprea, V., Purcaru, I., Tănăsescu, G., *Tendințe privind dezvoltarea sistemelor de monitorizare și diagnosticare a unităților de transformare*, Simpozion ”Performanțele actuale ale transformatoarelor de putere-Tendințe în domeniu privind proiectarea, fabricarea, montarea, mentenanța și exploatarea”, ediția a III a, Craiova, 07-09 octombrie, 2008.
6. **Sacerdoțianu, D.**, Manolea, Gh., Duță M., *Monitorizarea transformatoarelor electrice, soluție pentru creșterea eficienței energetice*, Simpozionul științific al inginerilor români de pretutindeni, SINGRO 2006, 14 – 15 septembrie 2006, București.
7. **Sacerdoțianu, D.**, Marinescu, A., Pătru, I., Hurezeanu, I., Stancu, I., *Instalație complexă de monitorizare pentru autotransformatoare de putere 200MVA, 220/110kV*, Simpozionul ”Transformatoare de putere”, Ediția a II - a, Curtea de Argeș, 5 - 8 sept., 2006.
8. **Sacerdoțianu, D.**, *Stadiul actual și de perspectivă privind perfecționarea echipamentelor și tehnologiilor de monitorizare și diagnosticare a transformatoarelor de putere*, Referat de doctorat, Craiova, 2006.
9. **Sacerdoțianu, D.**, Nedelcuț, D., Pătru, I., Purcaru, I., *Monitoring system for bushings*, The 7th International Carpathian Control Conference, may 29 -31, 2006, Roznov, Republica Ceha. ISBN 80-248-1066-2 .
10. **Sacerdoțianu, D.**, Nedelcuț, D., Hurezeanu, I., Purcaru, I., *Monitoring and diagnosis system for the operation of the cooling batteries afferent to power transformers and reactors*, The 8th International Carpathian Control Conference, may 24 -27, 2007, Strbske Pleso, High Tatras,

- Slovak Republic. ISBN 978-80-8073-805-1.
11. **SACERDOȚIANU, D., NEDELCUȚ, D., NOURĂȘ F., MARINESCU, C.,** *MOBILE LABORATORY FOR PERIODIC METROLOGICAL CHECKING OF POWER TRANSFORMER MONITORING EQUIPMENT*, Simpozionul "Progrese în monitorizarea și diagnoza echipamentelor electroenergetice", Olănești, 26-28 noiembrie, 2007. CD: ISSN Hardcopy: 1224-0575.
 12. **Sacerdoțianu, D.,** Nedelcuț, D., Hurezeanu, I., Lăzărescu, F., Moraru, A., Zaharescu, V., *Sisteme de monitorizare – diagnosticare integrate în intranet care permit supravegherea continuă a stării unităților de transformare din cadrul S.T. Sibiu*, Simpozion "Performanțele actuale ale transformatoarelor de putere-Tendințe în domeniu privind proiectarea, fabricarea, montarea, mentenanța și exploatarea", ediția a III a, Craiova, 07-09 octombrie 2008.
 13. Nedelcuț, D., **Sacerdoțianu, D.,** *Monitoring of Dielectric Losses at Capacitor-Type Bushings – Extended paper*, WSEAS Transactions on Environment and Development, issue 5, volume 3, mai 2007, ISSN: 1790-5079.
Proceedings of the 3rd WSEAS/IASME International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD 2007), ISSN: 1790-5095, ISBN-10: 978-960-8457-88-1, pag.567-572, Proceedings cotate ISI Index Scientific & Technical Proceedings (ISTP/ISI Proceedings).
 14. Nedelcuț, D., **Sacerdoțianu, D.,** Marinescu, A., Purcaru, I., *Monitoring of Dielectric Losses and Own Capacity for Bushings*, Series of Energy and power Systems, v 2006, Proceedings of the Sixth IASTED International Conference on European Power and Energy systems, EuroPES 2006, ISSN: 1482-7891, ISBN-10: 0 88986 555 8, pag. 234 -239 Database: COMPENDEX, accession number: 064810265022, Ei classification codes: 708.1 Dielectric Materials, 603 Machine Tools, 921.5 Optimization Techniques, 732.1 Control Equipment, 706.1.2 Electric power Distribution, 722.4 Digital Computers and Systems, 704.1 Electric Components URL: <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quicqsearchCitationFormat>. Database: INSPEC, accession number 9163026, Inspec classification codes: B8130H Power line supports, insulators and connectors, B2810D Dielectric breakdown and discharges, B7210B Computerised instrumentation, B8350 Transformers and reactors, B8375 Substations, C7410B Power engineering computing URL: <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quicqsearchCitationFormat>.
 15. Nedelcuț, D., **Sacerdotianu, D.,** – *Monitoring of Dielectric Losses at Capacitor-Type Bushings*, Proceedings of the 3rd WSEAS/IASME International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD 2007), ISSN: 1790-5095, ISBN-10: 978-960-8457-88-1, pag. 567-572, Database: INSPEC, accession number: 9606403, Inspec classification codes: B8350: Transformers and Reactors . URL: <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quicqsearchCitationFormat>
 16. Nedelcuț, S.D., **Sacerdoțianu, D.,** Purcaru, D.M., - *Influence of Electric Substation disturbances on dielectric dissipation factor variation at bushings*, Proceedings of the Seventh IASTED International Conference on Power and Energy Systems, 2007, ISBN-10: 978-0-88986-689-8, pag. 62-67, Database: INSPEC, accession number: 9751801, Inspec classification codes: B8375 Substations, B8130H Power line supports insulators and connectors, B7210B Computerised instrumentation, B0290T Finite element analysis URL: <http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quicqsearchCitationFormat>.
 17. Nedelcuț, S.D., **Sacerdoțianu, D.,** Tănăsescu G., Nicolae S., Voinescu L., *On-line and Off-line Monitoring-Diagnosis System (MDS) for Power Transformers*, International Conference on Condition Monitoring and Diagnosis, Beijing, China, 21- 24 April 2008, ISBN:978-1-4244-1622-6
 18. Nedelcuț, D., **Sacerdoțianu, D.,** Purcaru, I., Hurezeanu, I., Lăzărescu, F., Pătru, I., *ICMET's achievements in the field of transformer unit monitoring and diagnosis*, Proceedings of International Symposium on High Voltage and High Power Tests, Measurements and Certification of Electrical Power Equipment (third edition) and Symposium on Progress in Electrical Power Equipment Monitoring and Diagnosis (first edition), Baile Olanesti, November 26-28, 2007, CD: ISSN Hardcopy: 1224-0575.
 19. Nedelcuț, D., **Sacerdoțianu, D.,** Tănăsescu, G., *Monitoring and diagnosis of 110 kV power transformers*, Proceedings of International Symposium on High Voltage and High Power Tests, Measurements and Certification of Electrical Power Equipment (third edition) and Symposium on

- Progress in Electrical Power Equipment Monitoring and Diagnosis (first edition), Baile Olanesti, November 26-28, 2007, CD: ISSN Hardcopy: 1224-0575.
20. Nedelcuț, D., Tănăsescu, G., **Sacerdoțianu, D.**, *Monitorizarea și diagnosticarea stării izolației la transformatoarele de putere de 110 kV*, Simpozionul Internațional “Sisteme de izolație ale echipamentelor electrice”, Simpozion organizat sub egida “CIGRE SC D1 MATERIALS”, Călimănești, 18 – 21.09.2007.
 21. Nedelcuț, D., **Sacerdoțianu, D.**, Purcaru, I., *Cooling System Monitoring at Power Transformers*, International Symposium on High Voltage and High Power Tests, Measurements and Certification of Electric Power Equipment, SIMC-EE 2004, Băile Herculane, România, CD Hardcopy: ISSN: 1224-0575.
 22. Nedelcuț, D., Marinescu, A., **Sacerdoțianu, D.**, Pătru, I., Purcaru, I., *Equipment for HV Capacitor- Type Bushings (DPD) monitoring*, „The 7th International Conference on Live Maintenance – ICOLIM –2004”, București, România, 2004.
 23. Nedelcuț, D., Marinescu, A., Floriganță, Ghe., **Sacerdoțianu, D.**, Purcaru, I., *Contributions to power transformer monitoring equipment carrying out*, 4th International Conference on Electromechanical and Power Systems SIELMEN 2003, Chișinău, vol.II, ISBN 9975-9771-1-1, pag. 275-278.
 24. Nedelcuț, D., Floriganță, Ghe., **Sacerdoțianu, D.**, Purcaru, I., Stanciu, L., *Equipment intended to display the oscillogram of the on-load tap changer breakers*, 4th International Conference on Electromechanical and Power Systems SIELMEN 2003, Chișinău, vol.II, ISBN 9975-9771-1-1, pag.273-274.
 25. **Sacerdoțianu, D.**, Nedelcuț, D., Nourăș, F., Marinescu, C., *Mobile laboratory for periodic metrological checking of power transformer monitoring equipment*, Proceedings of International Symposium on High Voltage and High Power Tests, Measurements and Certification of Electrical Power Equipment (third edition) and Symposium on Progress in Electrical Power Equipment Monitoring and Diagnosis (first edition), Baile Olanesti, November 26-28, 2007, CD: ISSN Hardcopy: 1224-0575.
 26. **Sacerdoțianu, D.**, Nedelcuț, D., Hurezeanu, I., Purcaru, I., *Monitoring and diagnosis system for the operation for the cooling batteries afferent to power transformers and reactors*, ICC 2007 8th International Carpathian Control Conference, Slovak Republic, May 24-27, 2007, pag. 595-598, ISBN 978-80-8073-805-1.
 27. **Sacerdoțianu, D.**, Nedelcuț, D., Pătru, I., Purcaru, I., *Monitoring system for bushings*, Proceedings of 7th International Carpathian Control Conference, Roznov, Czech Republic, 2006, pag. 485-488, ISBN 80-248-1066-2.
 28. **Sacerdoțianu, D.**, Hurezeanu, I., Marinescu, A., Popa, D., Teodorescu, M., Oprea, V., Purcaru, I., Tănăsescu, G., *Monitoring and diagnosis equipment for transformer units, with fiber optic acquisition of monitored quantities*, OptoTech 2009 Symposium – Application of Optoelectronic Measuring and Monitoring Methods in Romanian Power Grid, Cheia, 6-8 Mai, 2009, Romania, CD:ISSN 2066 – 1916.

Patents:

1. *Procedure and device for getting variable amplitude and frequency vibrations.*

Patents:111747/1997

Sacerdoțianu Dumitru, Juncu Mihai Aurel, Stamate Sergiu, Radu Alexandru

2. *Abrasive cleaning installation for dental works*

Patents:115705/2000

Dută Marian, Manolea Gheorghe, **Sacerdoțianu Dumitru**

3. *Equipment for on-line monitoring of high voltage capacitor- type bushings*

Patents:121620/2007

Marinescu Andrei, Nedelcuț Silviu Dorel, **Sacerdoțianu Dumitru**, Pătru Ion, Purcaru Ion.

Diplomas and medals got for monitoring equipment :

- Golden Medal: Invention Fair ARCA, 2006, Zagreb;
- Silver Medal: International Invention Fair GENIUS Budapesta, Ungaria, september, 2006, Budapesta, Ungaria;
- Silver Medal :55-th World Exhibition of Innovation Research and New Technologies, 2006, Bruxell;
- Silver Medal:10-th edition of International Fair of Invention and New Technologies, INVENTIKA, 3-7 octomber, 2006, Bucuresti;
- Excellence diploma and golden medal: International Invention Fair Proinvent 2008, Cluj Napoca.