

## 2.2. Curriculum vitae

**NAME:** *MILICI*

**SURNAME:** *Laurențiu-Dan*

**DATE AND PLACE OF BIRTH:** 15.12.1967, Suceava

**ADDRESS:**

- **home:** Gh. Mișuță str., nr.2A, C4, Lisaura, Suceava district, zip code 727326
- **office:** University str., nr.13, Suceava, zip code 720226

**PHONE:**

- **mobile:** +40.722.537125; +40.741.221406
- **office:** +40.230.216147 ext. 168, 169;  
+40.230.522978 ext. 168, 169 (tone mode);

**E-MAIL:** dam@eed.usv.ro, danm@usv.ro, dam@ieee.org

**MARITAL STATUS:** married

**CHILDREN:** Alina Milici, born 13.01.1997

**STUDIES AND GRADUATION YEAR:**

- 1974-1982 – Primary school nr.2 Suceava
- 1982-1986 – National College „Petru Rareș” Suceava, Department „Mechanic in chemical industry”
- 1989-1994 – Faculty of Electrical Engineering, Technical University „Gh. Asachi” Iasi, Department „General Electrotechnics”, specialization „Instrumentation”, type of education „Engineers – day courses”
- 1994-1995 – Faculty of Electrical Engineering, Technical University „Gh. Asachi” Iasi, specialization „Power Electrotechnics, type of education „Postgraduate – day courses”
- 1996-1998 – Faculty of Electrical Engineering, „Stefan cel Mare” University of Suceava, specialization „Computers”, type of education „Engineers – day courses”, general studies (year I-II)
- 2004-2006 – Faculty of Electrical Engineering, „Stefan cel Mare” University of Suceava, specialization „Informatics”, type of education „Masters – day courses”

**PhD:**

- final thesis: on 28.03.2003 with the grade „very good”
- field: „Electrical engineering”
- title: „Contributions to the improvement of metrological performance of the temperature sensors”
- coordinator: PhD prof. eng. Mihai Cretu, „Gh. Asachi” University of Iasi, Faculty of Electrical Engineering

**OTHER COURSES:**

- Certificate of *authorized metrologist*
- 1996 – the „*Definitive*” *degree in education*, granted by the Ministry of National Education
- 2003 – **Courses on „Counselling and training for the prodigies children”**, made by the National Foundation for Community Development, organized as distance education
- 2003 – **Courses on „Creative ideas for children”**, conducted by the National Foundation for Community Development, organized as distance education
- 2007 – **Course on „Cell broadband engine programming workshop”**, organized by IBM Corporation at Suceava
- 2008 – **Training Course „Design & Discovery – teacher training in engineering for second-level students”**, organized by Intel Corporation (Gerry Nolan – education specialist, Intel Ireland), Braila, 2008
- 2008 – **Training internship „Human Machine Interface”**, organized by Microchip and Vitacom, Iasi, 2008
- **Training course „Animator” – Steppen Stone Solution**, organized by the Romanian Government in the Phare: Educational Bridge in Bucovina

- 21-25.09.2009 – **Training internship „Linux Power User”**, organized by IBM Romania at University of Suceava (ibm.com/university)
- 15-16.06.2011 – **Member of the commission for testing the course „Methodologies and tools of project financing through scholarship mechanisms”** within the POSDRU 86/1.2/S/62885
- **Refresher training: „National trainer”**, organized by the Ministry of labour and Ministry of education, Certificate of graduation series F, nr.0197106 / 2011 in accordance with the Government ordinance no.129/2000
- 13-19.09.2012 – **Program for continue profesional training and development for university teachers interested in expanding/deepening the pedagogical skills needed in working with the students**, provided under the project „Quality, innovation, communication in the system of continue training for the teachers from higher education” POSDRU 87/1.3/S/63709, domain: Education sciences
- 11-12.07.2013 – **Course „Quality Management in Higher Education”** organized within the project "University community for quality management in higher education"
- 03.11.2011-31.12.2013 – **Program for training and awareness in quality assurance in distance education - ID**, organized and conducted under the Project PSDRU/86/1.2/S/60720 „Development and implementing a monitoring system, continuous improvement and quality assessment in higher education opened and at distance based on performance indicators and international quality standards”
- 21-25.11.2013 – Certificate of graduation **„Using AEL eLearning platform and ePortal portal”**, organized by SIVECO Romania at „Stefan cel Mare” University of Suceava
- 09-13.12.2013 – Certificate of attendance and graduation certificate for the **course „Manager in improvement processes”**, within POSDRU/86/1.2/S/62249 - European Quality in Higher Education, „Stefan cel Mare” University of Suceava

#### **INTERNSHIP ABROAD:**

- during the period December 1997 - April 1998 I performed an **internship** at **Instituto Superior de Engenharia in Porto**, Portugal, materialized through achieving a scientific paper in collaboration with Professor Jose Carlos Oliveira titled „Developing a Support package for Assimetric Multiprocessing in a Double Pentium Board”
- 2011, April 25 to 30, performing a **teaching stage (STA)** at **Katholieke Hogeschool Sint Lieven, Gent (BGent16)**, Belgium, Energetical Engineering Department, under the institutional agreement LLP / Erasmus 2010-2011, completed with 5 hours of teaching a lecture on Instrumentation measurement and of tutoring students
- 2011, 01.09-01.12, **research internship** within the postdoctoral project “Progress and development through post-doctoral research and innovation in engineering and applied sciences – Pride” in the **Aristotle University of Tessaloniky**, Greece, collaborator. ass.prof.dr.eng. Vasilis Chatziathanasiou
- 2012, April 30 - May 5, performing a **teaching stage (STA)** at **Gazi Univeristy of Ankara**, Turkey, at Faculty of Engineering, within the institutional agreement LLP / Erasmus 2011-2012, completed with 5 hours of teaching on Instrumentation Measurement and tutoring students
- 2012, May 13 to 19, attending an **internship** on lifelong education on „Learning and Mind Symposia” within Intel ISEF, held in **Pittsburgh**, Pennsylvania, USA, organized by the Society for Science and the Public and Portland State University and obtaining 10 CEU
- 2013, April 29 - May 4, performing a **training stage** at **Katholieke Hogeschool Sint Lieven, Gent (BGent16)**, Belgium, Department of Energy, within the institutional agreement LLP / Erasmus 58 / 31.05.2012
- 2014, 28.04 - 02.05, performing a **training stage** at the **Technological Educational Institution (TEI) of Chalkida**, Greece, Erasmus code G PSAHN-E01

**MILITARY SERVICE: completed** during the period September 1986 - February 1988

#### **PROFESSIONAL ACTIVITY:**

- 1988-1989 – employed as a fine mechanics locksmith at the Central mechanical workshop of the County Union of Suceava
- October 1994 - September 1998 – junior assistant, Electrical Engineering Department, Faculty of Electrical Engineering, „Stefan cel Mare” University of Suceava

- September 1994 - September 1999 – I collaborated, as an associate professor, with the County School Inspectorate of Suceava, by performing educational activities in the field of electrical engineering, electronics and multimedia, at Children's Palace of Suceava
- October 1998 - September 2000 – assistant, Electrical Engineering Department, Faculty of Electrical Engineering, „Stefan cel Mare” University of Suceava
- October 2000 - February 2005 – lecturer, Electrical Engineering Department, Faculty of Electrical Engineering, „Stefan cel Mare” University of Suceava
- Since February 2005 - associate professor, Electrical Engineering Department, Faculty of Electrical Engineering, „Stefan cel Mare” University of Suceava, the didactical activities consisting in teaching of courses and practical activities (laboratories, projects, seminars) on: Electrical measurements, Electronic measurements, Sensors and transducers, Metrology, Digital circuits and microprocessors, Numerical computation, Data acquisition and communications (Master), Computer programming and programming languages, Virtual instrumentation

#### **SCIENTIFIC PAPERS:**

- Volumes published in international academic publishers – 3
- Volumes published in national and academic publishers – 10
- ISI indexed papers – 22
- Papers published in journals and specialized periodicals abroad – 15
- Papers published in journals and specialized periodicals in the country, annals or university scientific papers – 68
- Papers published in journals, technical periodicals, science popularization periodicals – 25
- Papers published in the proceedings of international scientific events – 36
- Papers in scientific events abroad – 7
- Papers published in the proceedings of national scientific events, peer-reviewed and with program committee – 10
- Papers communicated in national and international scientific events, organized in the country – 32
- Synthesis documentary papers – 9

#### **RESEARCH GRANTS:**

- Member of the research collectives for grants won by competition – 17
- Member of the implementation collectives of grants won by competition – 2
- Member of the research teams of research contracts – 11
- Products, technologies, studies, services resulted from research activities ordered by the customer based on contract – 3

#### **PATENTS AND PATENT APPLICATIONS:**

- Patents – 9
- Patent applications – 68

#### **PROFESSIONAL ORGANIZATIONS AND ASSOCIATIONS:**

1. 1995-2000 – member – *European nuclear society (ENS)* and *Romanian association „Nuclear energy” AREN (Asociația română „Energia nucleară” AREN)*
2. Since 1996 – member – *General association of engineers from Romania AGIR (Asociația generală a inginerilor din România AGIR)*
3. Since 1998 – member – *The institute of electrical and electronics engineers, Inc. (IEEE) New York – USA* and *World society of instrumentation and measurement associations*
4. 1999-2003 – member – *Society for optimizing energy consumption in Romania SOCER (Societatea pentru optimizarea consumurilor energetice din România SOCER)*
5. Since 2000 – founding member and secretary of the subsidiary of Suceava – *Romanian society of automation and technical informatics SRAIT (Societatea română de automată și informatică tehnică SRAIT)*
6. Since 2000 – member – *Inventors society of Romania SIR (Societatea inventatorilor din România SIR)*
7. Since 2001 – member and coordinator of the Research and science popularization department – *Cygnus Scientific Society - UNESCO center (Societatea științifică Cygnus - centru UNESCO)*

8. Since 2002 – founding member of the subsidiary of Suceava – **Electrical systems and automation society from Romania SIEAR** (*Societatea de instalații electrice și automatizări din România SIEAR*)
9. Since 2008 – member – **World scientific and engineering academy and society**
10. Since 2009 – founding member and vicepresident – **Romanian society for philosophy, engineering and techno-ethics** (*Societatea română de filosofie, inginerie și tehnologică*)
11. General Secretary of **FRACCU (Romanian Federation of UNESCO Centers)** elected for a term of two years in 09.2009
12. Since 2010 – honorary member of the elected in the General Assembly of 2010 – **Romanian association of electricians AREL** (*Asociația română a electricienilor AREL*) elected in the General Assembly of 2010
13. Since 2010 – associate member – **Center for innovation in education TEHNE** (*Centrul pentru inovare în educație TEHNE*) – www.tehne.ro
14. Since 2009 – member – **Society for science and public (SSP) USA**, NGO which organizes ISEF competition
15. Since 2013 – member – **Romanian coalition for engineering education CREDING** (*Coaliția română pentru educație în inginerie CREDING*) – www.creding.ro

#### **DIPLOMAS AND AWARDS:**

- **Honorary diploma of Romanian inventors society** – Salon of Inventions Gaudeamus – Suceava 2002
- **Diploma of participation** – Salon of Inventions GAUDEAMUS – Suceava 2002
- **Diploma of excellence Inventica 2004** – International Exhibition of Inventions, Research and Technology Transfer, Inventica 2004, Iasi (Cernomazu D., Pentiu R.D., Barbă N., Milici L.D., Milici M.R., Popa C.D., Cojocariu I., Minescu D., Ungureanu C., Bobric C.E., Rață G., Rață M., Măcincă I., Mandici L.)
- **Diploma of excellence Inventica 2004** – International Exhibition of Inventions, Research and Technology Transfer, Inventica 2004, Iasi (Ungureanu C., Cernomazu D., Pentiu R.D., Popa C.D., Barbă N., Bobric C.E., Rață M., Milici L.D., Milici M.R., Minescu D., Georgescu D., Rață G.)
- **Diploma of excellence Inventica 2004** – International Exhibition of Inventions, Research and Technology Transfer, Inventica 2004, Iasi (Barbă N., Milici M.R., Milici L.D., Popa C.D., Pentiu R.D., Ungureanu C., Cernomazu D.)
- **Silver medal of the Romanian academy** – International Inventions Exhibition, Iasi 2004 (Pentiu R.D., Cernomazu D., Pentiu Ș.G., Popa C.D., Minescu D., Milici M.R., Milici L.D.)
- **Gold medal** for teaching, given by the National Authority for Youth – National Salon of Inventions and Youth Creativity „Gaudeamus”, Bucharest, October 2008 (Milici L.D.)
- **Rank II and Cup** of the National Salon of Inventions and Youth Creativity „Gaudeamu”, Bucharest, October 2008, for the Suceava University’s team (team leader Milici L.D.)
- **Diploma of excellence and Medal of the Invention exhibition** – International Invention Exhibition of Research, Invention and Technology Transfer „Inventica”, June 2009, organized by National Institute of Invention Iasi (Milici L.D., Milici M.R.) for „Magnetic temperature relay”
- **CNCSIS Award granted by the Romanian academy for research** („Academia română pentru cercetare”), quarter I, 2009, for the paper „Induction motor speed estimator using rotor slot harmonics” (Rață G., Rață M., Graur I., Milici L.D.) published in „Advances in Electrical and Computer Engineering”, ISSN 1582-7445, vol.9, nr.1, 2009
- **Excellence award CNIV2009** – National Conference on Virtual Learning, 7<sup>th</sup> edition, Iasi, 30.10.2009-01.11.2009 – Modern technologies in education and research, for the work „Built by man, created by God” – using multimedia technology for studies in sociology, theology, architecture, culture and art (Milici L.D., Șandru I., Șutac V.)
- **Prize II**, Section **The best educational project** within the Award Gala for Education 2010, organized by Dinu Patriciu Foundation for the project „School on wheels”
- **Diplome d’excellence** awarded within the project „Entre science at art” organized by Lycee Professionnel Amyot d’Inville Senlis, Franța and National College „Petru Rareș” Suceava, 2011
- **WIPO Certificate of merit**, awarded by the general director of World Intellectual Property Organisation at The 39<sup>th</sup> International Exhibition of Inventions of Geneva, 6-10.04.2011 for invention „Time relay”
- **Excellence diploma and Gold medal** – International Exhibition of Research, Innovation and Inventions „PRO INVENT” Cluj-Napoca, March 2012, (Cernomazu D., Milici L.D., Milici M.R., Nițan I., Ungureanu C., Olariu E.D., Rață M., Romaniuc I.) for „Group of inventions”

- **Gold Medal** – European exhibition of creativity and innovation EUROINVENT 2012 Iasi, May 2012 – Cernomazu D., Milici L.D., Milici M.R., Nițan I., Prodan C., Rață M. Rață G., Olariu E.D., for the invention „*Ultrasonic motors*”
- **Gold Medal** – European exhibition of creativity and innovation EUROINVENT 2012 Iasi, May 2012 – Cernomazu D., Milici L.D., Milici M.R., Nitan I., Ungureanu C., Olariu E.D., Rață M., Romaniuc I., for the invention „*Electromechanical actuator with bellow*”
- **Silver Medal** – European exhibition of creativity and innovation EUROINVENT 2012 Iasi, May 2012 – Cernomazu D., Milici L.D., Milici M.R., Nițan I., Ungureanu C., Olariu E.D., Rață M., Romaniuc I., for the invention „*Electromechanical actuator with liquid*”
- **Silver Medal** – European exhibition of creativity and innovation EUROINVENT 2012 Iasi, May 2012 – Cernomazu D., Milici L.D., Milici M.R., Nițan I., Ungureanu C., Olariu E.D., Rață M., Romaniuc I., for the invention „*Microelectrochemical pump with hydrogen*”
- **Diploma of merit** awarded by CNR-UNESCO – Milici L.D., for organizing the National Competition of Science and Technology RoSEF2012, event under the patronage of the Romanian National Commission for UNESCO, 22-24.06.2012, Suceava
- **Certificate of excellence** awarded by the Romanian National Commission for UNESCO on the occasion of World Energy Systems Conference (WESC2012), 28-30.06.2012
- **Diploma for activity in the service of the ideals of UNESCO** granted by Romanian Federation of Associations, Clubs and Centres for UNESCO, National Symposium „Art and Civilization in Romanian Monastic Space”, Comana Monastery, October 2012
- **Gold medal** – European exhibition of creativity and innovation „Euroinvent” 2013, 9-11.05.2013, Iasi – Cernomazu D., Graur A., Ungureanu C., Nițan I., Sorea N., Prodan C., Rață M., Milici M.R., Milici L.D., for the invention „*Thermomagnetic engine*”
- **Gold medal** – European exhibition of creativity and innovation „Euroinvent” 2013, 9-11.05.2013, Iași – Cernomazu D., Mandici L., Graur A., Romaniuc I., Rață M., Milici M.R., Milici L.D., Nițan I., Olariu E.D., for the invention invenția „*Magnetostrictive vibromotor*”
- **Award of Excellence** – European exhibition of creativity and innovation „Euroinvent” 2013, 9-11.05.2013, Iași – Cernomazu D., Graur A., Mandici L., Sorea N., Nițan I., Milici L.D., Milici M.R., Rață M., Prodan C., Romaniuc I., for the invention „*Thermobimetallic solar actuators*”
- **Advisor** of the pupil Ionut Alexandru Budișteanu, who took the **Grand Prize** at the International Competition Intel ISEF 2013 (worth \$ 75,000) with „*Autonomous car*”, May 2013
- **3<sup>rd</sup> Prize** – Milici L.D., Dumitrașcă N. (FIESC Suceava) for the paper „*Balance assessment system for training the athletes*”, National salon of inventions and scientific creation for youth, organized by the Ministry of youth and sports, 20-24.11.2013
- **Cup and Grand Prize of the Technical university of Moldova** – Cernomazu D., Graur A., Mandici L., Romaniuc I., Rață M., Milici L.D., Prodan C., Milici M.R., Nițan I., Olariu E.D., Georgescu D., for „*Magnetostrictive vibromotor*” at the 13<sup>th</sup> edition of the International exhibition „Infoinvent”, 19-22.11.2013, Chisinau, organized by the State agency on itellectual property of the Republic of Moldova
- **Silver medal** – Cernomazu D., Graur A., Mandici L., Romaniuc I., Rață M., Milici L.D., Prodan C., Milici M.R., Nițan I., Olariu E.D., Georgescu D., Ungureanu C., for „*Magnetostrictive vibromotors*”, at the 13<sup>th</sup> edition of the International exhibition „Infoinvent”, 19-22.11.2013, Chisinau, organized by the State agency on itellectual property of the Republic of Moldova
- **Bronze medal** – Cernomazu D., Graur A., Ungureanu C., Nițan I., Sorea N., David C., Rață M., Milici M.R., Milici L.D., for „*Thermo-magnetic motor*” at the 13<sup>th</sup> edition of the International exhibition „Infoinvent”, 19-22.11.2013, Chisinau, organized by the State agency on itellectual property of the Republic of Moldova
- **Bronze medal** – Cernomazu D., Nițan I., Milici M.R., Milici L.D., Romaniuc I., Olariu E.D., Ungureanu C., Țanța O., pentru „*Electrochemical micro-motors*” at the 13<sup>th</sup> edition of the International exhibition „Infoinvent”, 19-22.11.2013, Chisinau, organized by the State agency on itellectual property of the Republic of Moldova
- **Bronze medal** – Popa V., Nițan I., Romaniuc I., Georgescu Ș., Rață M., Prodan C., Milici M.R., Milici L.D., Olariu E.D., Cernomazu D., pentru „*Electrochemical pump*” at the 13<sup>th</sup> edition of the International exhibition „Infoinvent”, 19-22.11.2013, Chisinau, organized by the State agency on itellectual property of the Republic of Moldova

- **UEFISCDI Prize** awarded within the project for awarding prizes for the research results – Section „Papers in 2013” for the paper „*Consideration about the evolution of performances in nature and technology*” (Milici L.D., Milici M.R.) – „European journal of science and theology”, ISSN 1841-0464, no.1, 2013
- **Diploma of excellence and Gold medal** at the 12<sup>th</sup> edition of the International exhibition of research, innovation and inventions PROINVENT 2014, 18-21.03.2014, Cluj-Napoca, for „*Linear solar motors with actuators with paraffin and Bourdon tube*”, Cernomazu D., Mandici L., Graur A., Nițan I., Rață M., Milici L.D., Milici M.R., Prodan C., Romaniuc I., Baciu I.
- **Diploma of excellence and Gold medal** at the 12<sup>th</sup> edition of the International exhibition of research, innovation and inventions PROINVENT 2014, 18-21.03.2014, Cluj-Napoca, for „*Installations for modeling some effects of ferrofluids*”, Negru B., Nițan I., Romaniuc I., Rață M., Milici L.D., Milici M.R., Prodan C., Olariu E.D., Cernomazu D.
- **Gold medal** for „*Electrostrictive polymers vibromotors*”, Cernomazu D., Romaniuc I., Rață M., Milici L.D., Milici M.R., Nițan I., Olariu E.D., Ungureanu C., Poienar M., at European exhibition of creativity and innovation EUROINVENT 2014, Iasi, 22-24.05.2014
- **Gold medal** for „*Hybrid electrochemical actuator*”, Cernomazu D., Nițan I., Milici M.R., Milici L.D., Ungureanu C., Țanța O., at European exhibition of creativity and innovation EUROINVENT 2014, Iasi, 22-24.05.2014
- **Gold medal** for „*Solar motors with paraffin actuators and Bourdon tube*”, Cernomazu D., Mandici L., Graur A., Nițan I., Rață M., Milici L.D., Milici M.R., Prodan C., Baciu I., at European exhibition of creativity and innovation EUROINVENT 2014, Iasi, 22-24.05.2014

#### **COMPUTER USING ABILITIES:**

- Operating systems: DOS, Windows, Linux, Apple
- Microsoft Office (Word, Excel, PowerPoint, Access)
- Data bases programs: FoxPro
- Mathematical computing programs: MatLab, MatCad, Matematica
- Programs for graphics: Paint, Designer, CorelDraw
- Programming: Pascal, C, C++, Visual C
- Programms for graphical applications: Visual Basic
- Programs for designing programs / Simulation for Electrotechnics: Electronic Workbench (Multisim)
- Virtual instrumentation: LabVIEW
- Programming the microcontrollers: Microchip, Philips

15.11.2014

dr. ing. Laurențiu-Dan MILICI