





PERSONAL INFORMATION

Albert Ștefan



-  Donat Street 67-103, Cluj-Napoca, Cluj, Romania
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Gender Male: | Date of birth: 25/01/1959 | Nationality: Hungarian

POSITION WITHIN THE PROJECT

Staff (executor)

WORK EXPERIENCE

08.2013 – present

Technology Development Engineer, IDT-II

National Institute for Research and Development of Isotopic and Molecular Technologies
Str. Donat nr. 67-103, Cluj-Napoca (România)

- Design, execution and operation on equipment for monitoring the performance of computing systems and network GRID Data Center.
- Computer maintenance, assisting users to install and use software and hardware
- Operation systems Windows, LINUX and ANDROID.
- Design automation for different measuring and control complex equipment, maintenance and testing of single crystal X-ray diffractometer, control and monitoring system of optical lithography.
- Participation in conferences in the field of GRID computing, assistance and organization various scientific events organized within the Institute.

Business or sector Data Center INCDTIM Cluj-Napoca

04.1994 – 07.2013

System engineer, CS-III

National Institute for Research and Development of Isotopic and Molecular Technologies
Str. Donat nr. 67-103, Cluj-Napoca (România)

- Implementation and development of the computer network of INCDTIM.
- Automation of measurement equipment for data acquisition and processing.
- Computer Network Administration and Maintenance.
- Development of firmware for microcontrollers and 51, AVR, PIC.

Business or sector Data Center INCDTIM Cluj-Napoca

06.1983 – 03.1994

**Operator T.T.N., Analyst T.T.N., Technician Assistant
Mass Spectrometer Laboratory (ITN)**

National Institute for Research and Development of Isotopic and Molecular Technologies Str. Donat nr. 67-103, Cluj-Napoca (România)

- Specific laboratory activities, maintenance and operating computers "NOVA", "CORAL", "TPD".
- Creating interfaces for automating data acquisition mass spectrometer.
- Image data processing with specific software.

Business or sector Mass Spectrometry Laboratory, ITIM Computer center

EDUCATION AND TRAINING

- 09.1984 – 07.1993 **Years I – VI, Faculty of Automation and Computers, Electric Profile, Specialization Automation and Computers, evening classes**
 Technical University of Cluj-Napoca
 Diplomas Engineer Automation and Computers, electric profile, profound study in Automation
- 09.1980 – 07.1984 **Years I – II, Faculty of Mechanics, department of Technology Construction of Machinery, regular classes**
 Technical University of Cluj-Napoca

PERSONAL SKILLS

Mother tongue Hungary

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	A1	A2	A1	A1	A2
France	A1	A2	A1	A1	
German	A2	A2	A1	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communications skills Good communication skills gained through their experience working in research teams.

Organizational management skills Organizing jobs places in IT.

Computer skills

- Good knowledge of Microsoft Office™
- Operating Systems: DOS, Windows, Linux, Android.
- Programming languages: Visual-Basic, Pascal, C, FORTRAN, machine language.
- Other skills hardware and software design microcontroller systems.

Other skills

- Operating in various design programs (CAD): ORCAD, TANGO, Protel EAGLE, etc
- Experience in troubleshooting and maintenance of scientific laboratory equipment.
- Flexibility and easy adaptation of understanding in the use of new technologies.

Driving license

- **B**

Membership in professional societies

- Transylvanian Hungarian Technical Scientific Society (Erdélyi Magyar Műszaki Tudományos Társaság - EMT),
- Romanian Society of Mass Spectrometry (Societatea Română de Spectrometrie de Masă - SRSM)

ANNEXES

- **Annex 1:** Research grants
- **Annex 2:** Publications
- **Annex 3:** Conferences

Annex 1
Research projects
Member in team of research projects:

Programme/Project	Position	Period
Program “Hulubei-Meshcheryakov”, Optimization Investigations of the GRID Facilities at LIT-JINR and INCDTIM-Cluj, Number: 05-6-1118-2014/2019, 05-6-1119-2014/2019, collaboration INCDTIM with LIT-JINR Dubna, Rusia	specialist IT	2014-2019
Program “Hulubei-Meshcheryakov”, Optimization Investigations of the GRID Facilities at LIT-JINR and INCDTIM-Cluj, Number: 05-6-1118-2014/2016, collaboration INCDTIM with LIT-JINR Dubna, Rusia	specialist IT	2014-2016
Program “Hulubei-Meshcheryakov”, Optimization Investigations of the GRID Facilities at LIT-JINR and INCDTIM-Cluj, collaboration INCDTIM with LIT-JINR Dubna, Rusia	specialist IT	2011-2014
Capacities/Module III – CERN Cooperation National contribution to the development of the LCG computing grid for elementary particle physics - CONDEGRID	specialist IT	2009-2011
Program “Hulubei-Meshcheryakov”, Optimization Investigations of the GRID Facilities at LIT-JINR and INCDTIM-Cluj, collaboration INCDTIM with LIT-JINR Dubna, Rusia	specialist IT	2008-2011
Development of temperature monitoring system for computer room of Data Center (DC) with PIC microcontroller using USB and GSM communication	Design and development	2008-2010
Development of control and measure instruments and laboratory equipment to computer using AVR and PIC microcontrollers	Design and development	2005-2006
Connecting and interfacing of measure and laboratory equipment to PC	Design and development	1995-1996
Design and execution of a Complex Data acquisition interface for MAT311 spectrometer	Design and development	1986 -1994
Automation of SMIT spectrometer, execution and testing of auxiliary equipment for command and control	Design and development	1985 -1986

Annex 2

Publications (selection)

1. F. Farcas, J. Nagy, R. Trusca, Szabo Izabella, **S. Albert**, *RO-14-ITIM upgrade and maintenance, 2015 Conference Grid, Cloud & High Performance Computing in Science (ROLCG 2015), Proceedings of a meeting held 28-30 October 2015, Cluj-Napoca, Romania*, Prod#: CFP15ROL-POD, ISBN: 9781479989171, Pages: 101 (1 Vol), Institute of Electrical and Electronics Engineers (IEEE), Curran Associates, Inc. (Jan 2016)
2. Application for temperature and humidity monitoring of data center environment, **Ș. Albert**, M. R. C. Trușcă, M. L. Soran, *AIP Conference Proceedings* 2015, 1700, doi: 10.1063/1.4938450
3. Environmental Parameters Control in Datacenter, M.R.C. Trușcă, **Ș. Albert**, M.L. Soran, M. Abrudean, *Proceeding of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014),- THETA 19th edition*, May 22-24, 2014, Cluj-Napoca, Romania
4. Application for some Parameters Monitoring in Installation for Isotopes Separation, M.R.C. Trușcă, **Ș. Albert**, M.L. Soran, C. Varodi, F. Farcas, M.L. Unguresan, *Proceeding of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014),- THETA 19th edition*, May 22-24, 2014, Cluj-Napoca, Romania.
5. Monitoring Using Additional Monitoring Device, M.R.C. Trușcă, **Ș. Albert**, C. Tudoran, M.L. Soran, F. Fărcaș, M. Abrudean, *AIP Conference Proceedings* 2013, 1565, 185-187.
6. Application of Green IT for Physics Data Processing at INCDTIM, F. Farcas, R. Trusca, **S. Albert**, Izabella Szabo and G. Popeneciu, *AIP Conference Proceedings*, Vol. 1425, 1-1 (2012) DOI: 10.1063/1.3681952, Subseries: Materials Physics and Applications, Lazar, Mihaela D. (Ed.) 2012, AIP-Press pp. 69-72 (ISBN 978-0-7354-1005-3).
7. Power consumption monitoring in ITIM Datacenter, M.R.C. Trușcă, **Ș. Albert**, F. Fărcaș, M. L. Soran, M. Abrudean, *Proceeding - Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science"*, 25 – 27 oct. 2012, Cluj-Napoca, Romania, pp. 93-95 (ISBN 978-973-662-710-1).
8. ITIM activity in Grid and High Performance Computing, F. Fărcaș, M.R.C. Trușcă, **Ș. Albert**, L. Soran, G. Popeneciu, *Proceeding - Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science"*, 25 – 27 oct. 2012, Cluj-Napoca, Romania, 27-30 (ISBN 978-973-662-710-1).
9. Implementation of an Additional Monitoring Device to Prevent Failures of the Cooling Systems, M.R.C. Trușcă, **Ș. Albert**, F. Fărcaș, M. L. Soran, M. Abrudean, *Proceeding of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012),- THETA 18th edition*, May 24-27, 2012, Cluj-Napoca, Romania, M1 225.
10. Techniques for parameters monitoring in datacenter, M.R.C. Trusca, F. Farcas, C.G. Floare, **S. Albert**, I. Szabo, *XXIII International Symposium on Nuclear Electronics & Computing NEC'2011*, Bulgaria, Varna, 12-19 September, 2011, pp. 259-263.

Annex 3
Conferences

1. Crystal and molecular structure of cardarine, G. Borodi 1, A. Turza 1, **S. Albert** 1 and P. A. Camarasan 2 (1-National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania, 2-Faculty of Environmental Science and Engineering str. 30 Fantanele, Babeș-Bolyai University, Cluj-Napoca R-400294, Romania), *12th International Conference "Processes in Isotopes and Molecules" (PIM 2019)*, 25-27 septembrie 2019, Cluj-Napoca, Romania
2. Temperature variation inside Data Center by airflow control - 3D model and simulation, M. R. C. Trușcă 1, J. Nagy 1, **S. Albert** 1, F. Fărcaș 1 and S. Brad 2, (1-National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania, 2-Technical University of Cluj-Napoca, 28 Memorandumului, 400114-Cluj-Napoca R-400294, Romania), *12th International Conference "Processes in Isotopes and Molecules" (PIM 2019)*, 25-27 septembrie 2019, Cluj-Napoca, Romania
3. Crystal structure of 2 α ,17 α -Dimethyl-4,5 α -dihydrotestosterone, A. Turza 1, G. Borodi 1, **S. Albert** 1 and P. A. Camarasan 2, 2 (1-National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania, 2-Faculty of Environmental Science and Engineering str. 30 Fantanele, Babeș-Bolyai University, Cluj-Napoca R-400294, Romania), *12th International Conference "Processes in Isotopes and Molecules" (PIM 2019)*, 25-27 septembrie 2019, Cluj-Napoca, Romania
4. Crystal and molecular structure of a Pitofenone Hydrochloride polymorph., H.G. Popeneciu 1,2, **S. Albert** 1, A. Turza 1, G. Borodi 1 and D. Ristoiu 2 (1-National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania, 2-Faculty of Environmental Science and Engineering str. 30 Fantanele, Babeș-Bolyai University, Cluj-Napoca R-400294, Romania), *11th International Conference "Processes in Isotopes and Molecules" (PIM 2017)*, 27-29 septembrie 2017, Cluj-Napoca, Romania
5. Raspberry Pi NIR camera with intervalometer, **S. Albert** and V. Surducan,), *11th International Conference "Processes in Isotopes and Molecules" (PIM 2017)*, 27-29 septembrie 2017, Cluj-Napoca, Romania
6. Crystal and molecular structure of Sodium (2-carbamoylphenoxy) acetate, M. L. Andrei 1, **S. Albert** 1, A. Turza 1, G. Borodi 1 and D. Ristoiu 2 (1 National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania, 2 Faculty of Environmental Science and Engineering str. 30 Fantanele, Babeș-Bolyai University, Cluj-Napoca R-400294, Romania), *11th International Conference "Processes in Isotopes and Molecules" (PIM 2017)*, 27-29 septembrie 2017, Cluj-Napoca, Romania
7. The Benefits of Data Center Temperature Monitoring, **Ș. Albert**, M.R.C. Trușcă, M.L. Soran, *Grid, Cloud and High Performance Computing in Science (RO-LCG 2015)*, 28-30 octombrie 2015, Cluj-Napoca, Romania
8. Application for Temperature and Humidity Monitoring of Data Center Environment, **Ș. Albert**, M.R.C. Trușcă, M.L. Soran, *10th International Conference "Processes in Isotopes and Molecules" (PIM 2015)*, 23-25 septembrie 2015, Cluj-Napoca, Romania

9. Electricity Consumption Reducing by Use the Application UPT 210, M.R.C. Trușcă, **Ș. Albert**, M.L. Soran, M.I. Abrudean, *2nd International Congress on Energy Efficiency and Energy Related Materials (ENEFM2014)*, 16-19 octombrie 2014, Oludeniz, Turcia
 10. Control and reducing of computing systems power consumption, M.R.C. Trușcă, C. Tudoran, **S. Albert**, M.L. Soran, M. Abrudean, *9th Conference on Sustainable Development of Energy, Water and Environments Systems*, 20-27 septembrie 2014, Venice-Istambul
 11. Environment protection by parameters monitoring and energy consumption reducing from different systems, M.R.C. Trușcă, C. Tudoran, **Ș. Albert**, F. Fărcaș, M.L. Soran, *XVI YUCORR, Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection*, 23-26 iunie 2014, Tara Mountain, Serbia
 12. Environmental Parameters Control in Datacenter, M.R.C. Trușcă, **Ș. Albert**, M.L. Soran, M. Abrudean, *2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014),- THETA 19th edition*, 22-24 mai 2014, Cluj-Napoca, Romania
 13. Application for some Parameters Monitoring in Installation for Isotopes Separation, M.R.C. Trușcă, **Ș. Albert**, M.L. Soran, C. Varodi, F. Farcas, M.L. Unguresan, *2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014),- THETA 19th edition*, 22-24 mai 2014, Cluj-Napoca, Romania
 14. Monitoring Data Center Power Consumption, M.R.C. Trușcă, **Ș. Albert**, C. Tudoran, M.L. Soran, F. Fărcaș, M. Abrudean, *ATLAS Annual Meeting*, 17-18 octombrie 2013, Timisoara, Romania
 15. Methods for Monitoring of Data Center Parameters to Reduce Energy Consumption, M.R.C. Trușcă, C. Tudoran, **Ș. Albert**, F. Fărcaș, M. Abrudean, M.L. Soran, *International Congress on Energy Efficiency and Energy Related Materials*, 9-12 octombrie 2013, Kemer, Turcia
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I, the undersigned, swear or affirm that the information I have supplied herein is true and accurate.

Data,
10.10.2019

Albert Ștefan