

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Ionut Traian Vasile**  
**Address(es)** Bucharest, Romania  
**Telephone(s)** 40214042300 ext 3504  
**Fax(es)** -  
**E-mail** itvasile@nipne.ro  
**Nationality** romanian  
**Date of birth** June 10th, 1981  
**Gender** male

Mobile:

### Occupational field **Research & Development**

#### Work experience

<p><b>Dates</b></p> <p><b>Occupation or position held</b></p> <p><b>Main activities and responsibilities</b></p> <p><b>Name and address of employer</b></p> <p><b>Type of business or sector</b></p>	<p><b>October 2010 - present</b></p> <p><b>Technology Development Engineer</b></p> <p>HPC cluster administrator, Molecular Dynamics simulations, parallel programming, GRID system administrator</p> <p>"Horia Hulubei" National Institute of R&amp;D for Physics and Nuclear Engineering (IFIN-HH), 30th Reactorului St, Magurele, Jud Ilfov</p> <p>Research &amp; Development</p>
<p><b>Dates</b></p> <p><b>Occupation or position held</b></p> <p><b>Main activities and responsibilities</b></p> <p><b>Name and address of employer</b></p> <p><b>Type of business or sector</b></p>	<p><b>December 2005 - October 2010</b></p> <p><b>Assistant Researcher</b></p> <p>HPC cluster administrator, Molecular Dynamics simulations, parallel programming</p> <p>"Horia Hulubei" National Institute of R&amp;D for Physics and Nuclear Engineering (IFIN-HH), 30th Reactorului St, Magurele, Jud Ilfov</p> <p>Research &amp; Development</p>
<p><b>Dates</b></p> <p><b>Occupation or position held</b></p> <p><b>Main activities and responsibilities</b></p> <p><b>Name and address of employer</b></p> <p><b>Type of business or sector</b></p>	<p><b>28.02.2006 - 27.08.2006 and 21.01.2007 - 20.04.2007</b></p> <p><b>Assistant Researcher</b></p> <p>ECAL-CMS construction activities, programming of data acquisition modules managed by CAEN CAMAC C111C crate controller</p> <p>National Institute for Nuclear Physics - INFN Roma, <i>P.le Aldo Moro, 2 - 00185</i>, Rome, Italy</p> <p>Research &amp; Development</p>

### Education and training

**Dates** October 2008 - present  
**Title of qualification awarded** PhD Student in Physics

Principal subjects/occupational skills covered: Biophysics, Molecular Dynamics

Name and type of organisation providing education and training: University of Bucharest

Dates: October 2005 - July 2007

Title of qualification awarded: M. Sc., Master in Computational Physics and Econophysics

Principal subjects/occupational skills covered: Computational Physics, Matlab, LabView

Name and type of organisation providing education and training: University of Bucharest

Dates: October 2000 - July 2005

Title of qualification awarded: B. Sc., Diplomat Engineer, Specialization in Computational Physics

Principal subjects/occupational skills covered: Computational Physics, AutoCAD, Quantum Mechanics, Thermodynamics, Classical Mechanics

Name and type of organisation providing education and training: University of Bucharest

Dates: October 2000 - March 2002

Title of qualification awarded: Cisco Certified Network Associate

Principal subjects/occupational skills covered: Networking, Routing, Data Switching, Network Security, Access Lists

Name and type of organisation providing education and training: CREDIS - University of Bucharest

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**Italian**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Experienced	C2	Experienced	C1	Experienced	B2	Independent	B2	Independent
B2	Independent	B2	Independent	B2	Independent	B2	Independent	B1	Independent
A2	Elementary	A2	Elementary	A1	Elementary	A1	Elementary	A2	Elementary

(\*) [Common European Framework of Reference for Languages](http://www.cerl.eu)

Social skills and competences

Good social skills  
Adaptability to multicultural environments (work stages abroad, international workshops and conferences)  
Team spirit

Computer skills and competences

Grid: Globus Toolkit, gLite, OGSA-DAI, PBS, OpenSSL, AccessGRID  
HPC: HPC cluster optimisation, cluster administration, xCAT, PXE, LDAP, cluster monitoring: Nagios, Cacti  
Networking: Myrinet, Infiniband, Ethernet  
Programming: C, C++, Fortran, OpenMPI, MPICH, BASH scripting, Matlab, Python, TCL, LabVIEW, Turbo Pascal, Ms Visual Basic  
Operating Systems: Linux SLC, RHEL, CentOS, Fedora, Ubuntu, OpenBSD  
Microsoft Windows 95, 98, NT, 2000, XP, 7  
Molecular Dynamics: NAMD, VMD, CHARMM  
Office Tools: Microsoft Office suite, OpenOffice, Star Office, Quark Express  
CAD: AutoCAD 2004-2005  
Multimedia editing: Adobe Audition, Sound Forge, Macromedia Fireworks

- i. Gh. Adam, S. Adam, A. Ayriyan, E. Dushanov, E. Hayryan, V. Korenkov, A. Lutsenko, V. Mitsyn, A. Sapozhnikov, T. Sapozhnikova, O. Streltsova, F. Buzatu, M. Dulea, I. Vasile, A. Sima, C. Visan, E.E. Donets, J. Busa and I. Pokorny, **Parallel computing case studies and performance assessment of the IFIN-HH parallel SIMFAP cluster**, in LIT Scientific Report 2006-2007, Eds. Gh. Adam, V.V. Ivanov, V.V. Korenkov, T.A. Strizh, P.V. Zrellov (JINR Dubna) ISBN 5-9530-0167-3, pp.58-61, 2007
- ii. Gh. Adam, S. Adam, A. Ayriyan, E. Dushanov, E. Hayryan, V. Korenkov, A. Lutsenko, V. Mitsyn, T. Sapozhnikova, A. Sapozhnikov, O. Streltsova, F. Buzatu, M. Dulea, I. Vasile, A. Sima, C. Visan, J. Busa and I. Pokorny, **Performance assessment of the SIMFAP parallel cluster at IFIN-HH Bucharest**, Romanian Journal of Physics, Volume 53, Issue 5-6, pp. 665-677 (2008)
- iii. Gh. Adam, S. Adam, A. Ayriyan, V. Korenkov, V. Mitsyn, M. Dulea and I. Vasile, **Consistent Performance Assessment of Multicore Computer Systems**, Romanian Journal of Physics, Volume 53, Issue 9-10, pp.985-991 (December 2008)
- iv. C. Placinta, I. Vasile, M. Dulea, **Grid system for real-time management of distributed databases, with application to the coordination of complex projects**, GRID2010 International Conference „Distributed Computing and Grid-technologies in Science and Education”, JINR, Dubna, Russia, 28 june – 03 july 2010
- v. M. Ciubancan, S. Constantinescu, I. Vasile, M. Dulea, **Grid and High Performance Computing infrastructure at the National Institute for Physics and Nuclear Engineering ‘Horia Hulubei’**, GRID2010 International Conference „Distributed Computing and Grid-technologies in Science and Education”, JINR, Dubna, Russia, 28 june – 03 july 2010
- vi. **Study of supported phospholipid bilayers by TeraHertz-TDS**, A. Ionescu, M. Mernea, I. Vasile, C. A. Brandus, M. E. Barbanta-Patrascu, L. Tugulea, D.F. Mihailescu, T. Dascalu, proc.SPIE 8496, SPIE Optics proceedings, 2012
- vii. **The influence of acid-sensing ion channel 1 on lipid dynamics: a molecular dynamics study** - I. Vasile, M. Mernea, D. F. Mihailescu, 12th National Conference on Biophysics CNB2013, 13-16 June 2013, Universitatea Alexandru Ioan Cuza, Iasi
- viii. **Protein-membrane interaction: molecular dynamics simulation of ASIC1 in lipid bilayer** - I. Vasile, M. Mernea, D. F. Mihailescu, 9th European Biophysics Congress, EBSA2013, 13-17 July 2013, Lisbon, Portugal, Eur Biophys J (2013) 42 (Suppl 1):S1-S236, DOI 10.1007/s00249-013-0917-x
- ix. **Molecular dynamics studies on the HPC platform for computational biophysics at IFIN-HH** - Vasile Ionut, Ciobanu-Zabet Dragos, Dulea Mihnea, TIM 2013 Conference, Timisoara, 21-24.11.2013, Romania

## 2. Trainings, conferences:

<i>Name</i>	<i>Place</i>	<i>Date From</i>	<i>Date To</i>
GRID2010 International Conference „Distributed Computing and Grid-technologies in Science and Education”	JINR, Dubna, Russia	28/06/2010	03/07/2010
National Conference of Physics	"Al. I. Cuza" University, Iasi, Romania	23/09/2010	25/09/2010
HP-SEE Regional Training	Institute of Information and Communication Technologies – Bulgarian Academy of Sciences, Sofia, Bulgaria	29/11/2010	30/11/2010
RO-LCG 2010 Conference: Grid and High Performance Computing in Scientific Collaborations	Horia Hulubei National Institute of Physics and Nuclear Engineering, Magurele, Romania	07/12/2010	07/12/2010
Joint HP-SEE, LinkSCEEM-2 and PRACE HPC Summer Training	Center of the Hellenic Telecommunications Organization (OTE Academy), Athens, Greece	13/07/2011	15/07/2011
Advanced School on Scientific Software Development: Concepts and Tools	The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy	20/02/2012	02/03/2012
HP-SEE User Forum 2012	Institute of Physics Belgrade - <i>National Library of Serbia</i> , Belgrade, Serbia	17/10/2012	19/10/2012
RO-LCG 2012 "Grid, Cloud & High Performance Computing Science"	National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania	25/10/2012	27/10/2012
HPC/Cloud Workshop for ELI project	HP EMEA, Grenoble, France	10/04/2013	12/04/2013
EBSA 2013 Congress	Lisbon, Portugal	13/07/2013	18/07/2013
TIM2013 Conference (HPC Workshop)	West Univeristy of Timisoara, Timisoara, Romania	21/11/2013	24/11/2013