



Andrii Salnikov

Curriculum Vitae

Professional Experience

Teaching

- 2013–to date **Assistance Lecturer**, *Computer Engineering department, faculty of Radiophysics, Electronics and Computer Systems, Taras Shevchenko National University of Kyiv.*
Qualify students as the computer science engineers, especially in Networking and HPC
- 2014–to date **Instructor**, *ERC Training Center, Kyiv.*
Executing work orders to deliver trainings for HP authorized courses.
- 2011–to date **Instructor**, *MUK Training Center, Kyiv.*
Executing work orders to deliver trainings for the following authorized courses:
- H7091 – Enterprise System Linux Administration
 - H7092 – Enterprise Linux Network Services
 - U2794 – Linux for UNIX Administrators
 - H4322 – POSIX shell programming
 - H3064S – HP-UX System and Network Administration
 - H3065S – HP-UX System and Network Administration II
 - 00646263 – Accelerated HP Access Layer Network Technologies
 - ENA – Extreme Networks Associate
 - ENS – Extreme Networks Specialist
- 2010–to date **Instructor**, *Networking Academy of Taras Shevchenko National University of Kyiv.*
Teaching self-developed Linux administration courses: “Basics of Linux administration” and “Building internet server on the top of the Linux” (in consort of levgen Sliusar)
- 2008–to date **Cisco Certified Academy Instructor**, *Cisco Networking Academy of Taras Shevchenko National University of Kyiv.*
Teaching a CCNA/CCNAS courses for students and instructors

Vocational

- 2006–to date **Senior Project Engineer**, *Information and Computer Center of Taras Shevchenko National University of Kyiv.*
Maintaining university HPC Cluster, developing grid software products, supporting operation within the Ukraine National Grid and European Grid Infrastructure.
- 2009–to date **Engineer**, *National Scientific Center for Medical and Biotechnical Researches of NAS of Ukraine, Kyiv.*
Linux HPC Cluster installation and maintenance, grid technologies application. Creating and supporting Network Dynamics software for grid computations of neuron networks and other dynamic systems.
- 2007–to date **Engineer**, *Institute for Molecular Biology and Genetics of NAS of Ukraine, Kyiv.*
Linux HPC Cluster installation and maintenance, grid technologies application. Creating and supporting MolDynGrid Virtual Laboratory software for grid computations of macromolecules dynamics.
- 2008–2009 **Senior engineer**, *Bogolyubov Institute of Theoretical Physics of NAS of Ukraine, Kyiv.*
Linux HPC Cluster installation and maintenance, grid technologies application.

Miscellaneous

- Dec 2012 **Linux HPC cluster installation and configuration**, *Pukhov Institute for Modelling in Energy Engineering*, Kyiv.
- Jan 2011 **Linux HPC cluster installation and configuration**, *Karpenko Physical-Mechanical Institute of NAS of Ukraine*, Lviv.
- Jan 2011 **Linux HPC cluster installation and configuration**, *Institute of Electron Physics of NAS of Ukraine*, Uzhgorod.
- Mar 2008 **Linux HPC cluster installation and configuration**, *Institute of Cell Biology and Genetics Engineering of NAS of Ukraine*, Kyiv.

Industry certifications

<http://manf.org.ua/certificates>

- Dec 29, 2008 **Cisco CCNA**, *Cisco ID. No. CSC011542124*.
Verification number: 398124167551FSXI
- Jan 26, 2009 **Cisco CCNA CCAI**, *Certification Number: 5709202CCNA*.
Academy Name: Taras Shevchenko University of Kyiv
- Oct 20, 2011 **Certified Cisco Networking Academy Instructor Trainer**.
CCNA Instructor Trainer
- Dec 07, 2011 **LPIC-1**, *LPI ID. No. LPI000245751*.
Verification code: bxyyb4wt48
- Dec 26, 2011 **Cisco CCNA Security**, *Cisco ID. No. CSC011542124*.
Verification number: 409035316405INCK
- Dec 28, 2011 **Novel Certified Linux Administrator**.
SUSE Linux Enterprise 11
- Dec 28, 2011 **Novel Data Center Technical Specialist**.
- Mar 13, 2012 **HP AIS. Network Infrastructure [2011]**, *HP Learner ID: PL71783895*.
- Apr 10, 2012 **HP Certified Instructor [2012]**, *HP Learner ID: PL71783895*.
- Dec 07, 2012 **Extreme Networks Associate-Switching (ENA)**, *Extreme Networks ID: 2815777*.

Education

- 2009–2012 **Postgraduate student in computer science**, *Radiophysics Faculty of Taras Shevchenko National University of Kyiv*.
Working on various problems of Virtual Organizations integration in grid environment, developing methods and corresponding software products. Ph.D. thesis: "Methods and tools for virtual organizations integration into the grid-infrastructures". Succesfully uphold a thesis and obtained Ph.D. degree (candidate of science) in engineering sciences on June 2014, speciality 05.13.05 – "computer systems and components".
- 2007–2009 **Master of applied physics**, *Radiophysics Faculty of Taras Shevchenko National University of Kyiv*.
Master studies in technology and different computer skills. Continues my investigations and researches in grid. Master thesis: "Integrated environment to automate operations with huge amounts of data in grid"
- 2003–2007 **Bachelor of applied physics**, *Radiophysics Faculty of Taras Shevchenko National University of Kyiv*.
Main subjects learned include applied and theoretical physics, mathematical analysis, computer science. My area of specialization is the Automation of Scientific Researches. I have mastered special courses that include physics of semiconductors, discrete mathematics, and various fields of computer science. My investigations was devoted to HPC systems and grid. Bachelor thesis: "Users authorization system for Ukrainian national grid-segment."

2000–2003 **Senior secondary education**, *Ukrainian Physical-Mathematical Lyceum of National Taras Shevchenko University of Kyiv*.

Studying in the Lyceum had developed my knowledge in the basics of Physics, Mathematics and Computer Science. I had been attending the radio-electronics laboratory and practicing an electronics devices creation. During the education I had acquired several diplomas in physics contests. Upon completion, I was awarded with a letter of commendation for particular strides in physics.

1992–2000 **Secondary education**, *Lyceum #15*, Chernihiv.

During the education I had been being annually awarded with school testimonial for excellent study results. My specialization was Physics and Mathematics. In 2000 I took the first place in the regional competition in physics and was invited to the Ukrainian Physical-Mathematical Lyceum.

Computer skills

Programming C/C++, IA-32 ASM

Markup HTML, CSS, XML, LaTeX, VHDL

Technologies Linux kernel development, Parallel programming (MPI, OpenMP), Networking (Switching, Advanced Routing, WAN, Security, VPN), Virtualization (XEN, KVM, OpenVZ, LXC, oVirt), Clustering (Corosync/Pacemaker, GFS2), Grid (ARC, gLite), Cloud, etc

OS Linux, FreeBSD, HP-UX, MS Windows

Scripting Perl, Python, POSIX Shell, BASH, PHP, JavaScript

Databases MySQL, SQLite, PostgreSQL, MS Access, NIS, LDAP

Services Web (Apache, nginx, lighttpd), E-mail (Exim, Sendmail, Postfix, DKIM, etc.), DNS (BIND, Unbound, etc.), Resource brockering (Torque PBS, PBS Pro, MAUI), Storage (iSCSI, FC, NFS, FTP, etc.), Networking (IPSec, DHCP, Quagga, PPTP, OpenVPN, etc.), etc

Main contributed projects

- PHP VOMS-Admin
<http://grid.org.ua/development/pva>
- Nordugrid ARC
<http://www.nordugrid.org>
- Rainbow (“ARC in the Cloud”)
<http://grid.org.ua/development/rainbow>
- MolDynGrid Virtual Lab
<http://moldyngrid.org>

- Computing Cluster
<http://cluster.univ.kiev.ua/wiki>
- Ukrainian National Grid
<http://ung.in.ua>
- Linux administration courses
<http://netacad.kiev.ua>

Languages

Ukrainian **native language**

Russian **native language**

English **intermediate**

Interests

- HPC, Grid, Cloud and related technologies (hardware and software solutions)
- Modern scientific researches in physics
- Science fiction and fantasy literature/TVSeries
- Traveling abroad the country