

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

Tomáš Rebok

Velkopavlovická 4074/10, 628 00 Brno, Czech Republic

+420 728 083 007

tom.rebok@gmail.com

Czech Republic

July 20, 1981

Male

Work experience

Dates

Occupation or position held

Main activities
and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities
and responsibilities

Name and address of employer

Type of business or sector

09/2009 onwards

Specialist

The proposal of a new concept of educating network-oriented courses at FI MU, the preparation of materials (slides) for innovated courses

Proposing and leading of students' projects oriented in the area of network technologies and applied distributed systems

Faculty of Informatics, Masaryk University, Botanická 68a, 602 00 Brno, Czech Republic

Education and Training – education concept proposal, education organization, students' projects leading

01/2002 onwards

Research and Development Specialist

Collaboration on projects of research activities *Multimedia transmissions, Virtual collaborative environments, and Multimedia transmissions and collaborative environment*—implementation of multimedia network applications supporting remote collaboration (video/audio-conferences)

CESNET, z.s.p.o, Zikova 4, 160 00 Praha 6, Czech Republic

Application and system development—IS/IT architect, programmer

Dates	01/2002 onwards
Occupation or position held	Laboratory Administrator
Main activities and responsibilities	Administrator of a medium-sized laboratory (about 25-30 PC)—OS (Windows, Linux, FreeBSD) and network administration, multimedia devices administration (tuning of audio/video systems for conference rooms) and other lab's HW devices administration
Name and address of employer	CESNET, z.s.p.o, Zikova 4, 160 00 Praha 6, Czech Republic
Type of business or sector	System and HW administration—LAN/WAN administrator, OS administrator
Dates	01/2006 – 08/2008
Occupation or position held	Research and Development Specialist
Main activities and responsibilities	Collaboration (i.e., design and implementation) on projects related to the research grant <i>Integrated approach to education of Ph.D. students in the area of parallel and distributed systems</i>
Name and address of employer	Faculty of Informatics, Masaryk University, Botanická 68a, 602 00 Brno, Czech Republic
Type of business or sector	Research and development—development team specialist, research and development lecturer, researcher

Education and training

Dates	07/2004 – 09/2009
Title of qualification awarded	Philosophy Doctor, Ph.D.
Principal subjects/Occupational skills covered	Active/Programmable network nodes, virtualization technologies, parallel and distributed systems, resource management and quality of service (QoS) assurance
Name and type of organization providing education and training	Faculty of Informatics, Masaryk University, Botanická 68a, 602 00 Brno, Czech Republic
Level in national or international classification	ISCED 6
Dates	04/2006 – 05/2008
Title of qualification awarded	Doctor of Natural Sciences, RNDr.
Principal subjects/Occupational skills covered	Active/Programmable network nodes, transport protocols, parallel and distributed systems
Name and type of organization providing education and training	Faculty of Informatics, Masaryk University, Botanická 68a, 602 00 Brno, Czech Republic
Level in national or international classification	ISCED 5A
Dates	09/1999 – 06/2004
Title of qualification awarded	Diploma in Informatics, Mgr.
Principal subjects/Occupational skills covered	Honours in <i>Design and Implementation of Computer Systems</i> (relational database systems architecture, computer networks, computer graphics, security in information technologies), and in <i>Informational Technologies</i> (data modelling, analysis, design, development and service of information systems)
Name and type of organization providing education and training	Faculty of Informatics, Masaryk University, Botanická 68a, 602 00 Brno, Czech Republic
Level in national or international classification	ISCED 5A

Dates
 Title of qualification awarded
 Principal subjects/Occupational skills covered
 Name and type of organization providing education and training
 Level in national or international classification

09/1995 – 06/1999
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Electrical, Telecommunicational and Computational Engineering (computer systems development, basics in development and programming of HW systems)
 Technical College—Secondary Technical School, Kratochvílova 7/1490, 702 00 Ostrava, Czech Republic
 ISCED 4A

Personal skills and competences

Mother tongue(s)
Self-assessment
European level^()*

Czech language

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1 Proficient user	C1 Proficient user	B2 Independent user	B2 Independent user	C1 Proficient user

^(*) *Common European Framework of Reference (CEF) level*

English

Organizational skills and competences

Very good organizational skills

- Leading of small research/development teams
- Proposal of new education concept and cooperation on organization of network-oriented courses provided at FI MU
- Proposal, organization and realization of educational games (*Cipher game, P2P game*)
- Provisioning and organization of videoconference transmissions of education courses provided by Louisiana State University, USA (2006 – 2011)
- Member of the steering committees of MEMICS'06, MEMICS'07 and MFCSL'10 conferences

Good “time-management”

Computer skills and competences

Computer networks and OS

- active/programmable network nodes' architectures (proposal of a new programmable network node called DiProNN), design and implementation of parallel and distributed systems
- network applications programming, implementation of real-time high-bandwidth network applications (e.g., uncompressed HD video transmissions), design and implementation of transport protocols (proposal of new transport protocol called ARTP)
- design and administration of computer networks, network components and servers, computer HW, experienced in building 10 Gbps networks
- administration knowledge of MS Windows, Linux, and FreeBSD operating systems

Virtualization systems and technologies

- administration knowledge of XEN, VServer, VMware, and OpenVZ virtualization systems

Computer security

- network communication security (SSL/TLS, IPsec), symmetric and asymmetric cryptography, digital signatures (PKI), X.509 certificates
- basics in security policy management and security evaluation criteria, risk analysis

Design and implementation of computer systems

- experienced in C, C++, and Delphi programming languages, basics in HTML
- database design, experienced in Oracle and MySQL database systems, programming in SQL language
- basics in design and development of computer systems (project life cycle, requirements analysis and specification, data flow diagrams, data models, ERD, object oriented analysis and design, UML), computer systems' testing
- experiences with CVS, Subversion, and Git versioning systems

Multimedia applications and audio/video transmissions

- audio/video-conference rooms design and construction, HW and SW audio processing, applications supporting remote collaboration
- uncompressed DV and HD video realtime network transmissions (including time synchronization of parallel streams)

Office applications

- experienced in MS Office and OpenOffice tools
- experienced in writing texts using L^AT_EX typesetting system
- basics in typography

Other skills and competences

- Experienced in writing research papers and publications
- Experienced demonstrator and presenter (both national and international conferences)
- Experienced lecturer (lectures organization and material preparation, teaching)
- Responsibility, independency, thoroughness, carefulness (sense for details), flexibility, and an interest in learning new facts
- Ability to identify drawbacks/issues and to explore possibilities of their treatment
- Works well in teams

Additional information

Marital status	Married
Children	Yes (1 child)
Reduced working capability	None
Driving licences	A (motorcycle), B (car), C (truck), T (tractor)
Hobbies	<ul style="list-style-type: none">• Sports (tennis, squash, football, volleyball, basketball, cycling, etc.)• Literature (actual trends in IT, adventure books)• Photography
Others	Non-smoker

Publications

(The complete list with previews available at

<http://www.fi.muni.cz/~xrebok/>)

Ph.D. thesis	Rebok, T.: <i>DiProNN: Distributed Programmable Network Node</i> . PhD thesis, Faculty of Informatics, Masaryk University, Botanická 68a, Brno (2009).
Journal articles	Holub, P., Matyska, L., Liška, M., Hejtmánek, L., Denemark, J., Rebok, T., Hutanu, A., Paruchuri, R., Radil, J., Hladká, E.: <i>High-definition multimedia for multiparty low-latency interactive communication</i> . Future Generation Computer Systems, Elsevier Science Volume 22, (2006).
Invited talks	Holub, P., Paruchuri, R., Simmons, S., Rebok, T., Hutanu, A., Eiland, D., Liška, M.: <i>Enabling Technologies for Teaching an HPC Class as a Distributed Course</i> (2007) Invited talk. Atlanta, Internet2, USA, SURA/ViDe, 2007. SPR2007 - The 9 th Annual SURA/ViDe Conference. March 30, 2007. Holub, P., Rebok, T., Liška, M.: <i>Videokonferenční technologie a přenosy videa</i> (2005) Invited talk. EurOpen 2005, Šumava, Czech Republic. October 23, 2005.
Conference papers	Rebok, T.: <i>DiProNN: Distributed Programmable Network Node Architecture</i> . In: ICNS '08: Proceedings of the Fourth International Conference on Networking and Services, Washington, DC, USA, IEEE Computer Society (2008) 67–72. Rebok, T., Holub, P.: <i>Distributed Synchronous Infrastructure for Multimedia Streams Transmission and Processing</i> . In: Networking Studies II : Selected Technical Reports, Prague, Czech Republic, CESNET z. s. p. o. (2008) 147–169. Rebok, T.: <i>DiProNN: Distributed Programmable Network Node Architecture</i> . In: Proceedings of Cracow Grid Workshop (CGW'07), Cracow, Poland, ACC CYFRONET AGH (2008) 283–290. Rebok, T.: <i>VM-based Distributed Active Router Design</i> . In: Proceedings of European Computing Conference (ECC'07), Athens, Greece, LNEE Springer (2007) 265–274. Holub, P., Hladká, E., Denemark, J., Rebok, T.: <i>Active Elements for High-Definition Video Distribution</i> . In: Proceedings of 13 th International Conference on Telecommunications (ICT'06), Funchal, Madeira, Portugal, University of Aveiro (2006) 1–4. Hladká, E., Liška, M., Rebok, T.: <i>Stereoscopic Video over IP Networks</i> , Los Alamitos, CA, USA, IEEE Computer Society (2005) 6 pages.