Curriculum Vitae

Personal information

First name / Surname	**Mitko Petrov SHOPOV**
Address	Trakia 216A, entrance B, floor 6, apartment 22, Plovdiv, BG 4023, Bulgaria.
Telephones	work: +359 (32) 659 758 Mobile: +359 895 587 457
E-mail and Web page	e-mail: mshopov@tu-plovdiv.bg www: http://dsnet.tu-plovdiv.bg/~mshopov/
Date of birth	June 17, 1982

Work experience

Dates	September 2011 – present
Occupation or position held	Assistant professor
Main activities and responsibilities	Teaching students in Computer networking, Distributed systems and computer communications, Microprocessor systems
Name and address of employer	Technical University of Sofia, Plovdiv branch 25 Tsanko Diustabanov Str., BG 4000, Bulgaria.
Dates	December 2007 – September 2011
Occupation or position held	System administrator
Main activities and responsibilities	System administration (Solaris, Debian, FreeBSD, Gentoo, Windows 2003 Server, Windows XP), network administration (Cisco, Linksys, HP), web programming (JSP, ,
Name and address of employer	Technical University of Sofia, Plovdiv branch 25 Tsanko Diustabanov Str., BG 4000, Bulgaria.
Dates	October 2005 – December 2007
Occupation or position held	Research assistant in laboratory “Computer Networks and Distributed Systems”
Main activities and responsibilities	Developing applications for: embedded systems (C/C++, Assembler and Java), PDAs (Embedded Visual C/C++), distributed systems based on Java enterprise technologies (Servlets, JSP, EJB, XML, XSD, XSLT, DOM, Web Services, etc.). Installation, configuration and administration of Linux stations.
Name and address of employer	Technical University of Sofia, Plovdiv branch Lab 2204, 61 St. Petersburg Blvd., BG 4000, Bulgaria.
Dates	June 2004 – May 2005
Occupation or position held	Instructor
Main activities and responsibilities	Instructor for the Cisco Certified Network Associate (CCNA) course from the Cisco Systems Network Academies program.
Name and address of employer	Academy of Information Technologies 20A Vasil Aprilov Blvd., Plovdiv 4000.

Education and training

Dates	July 2008 – July 2011
Title of qualification awarded	PhD student “Electronics in medicine” code 02.20.08
Thesis title	Methods and tools for developmnet of Web-based Personal Health-care Systems
Name and type of the organisation	Technical University of Sofia, branch Plovdiv, Department “Electronics”.
Dates	October 2006 – present
Title of qualification awarded	MSc engineer in “Computer Systems and Technologies” (avg. 5.83)
Principal subjects/occupational skills covered	Distributed systems and computer communications, Internet programming, Image processing, Combinatorial algorithms, Parallel algorithms, Distributed embedded systems, Artificial intelligence,

	Algorithms in bioinformatics, Conveyer and parallel computer architectures, Digital signal processing.
Name and type of the organisation	Technical University of Sofia, branch Plovdiv, Department "Computer Systems".
Dates	September 2001 – October 2005
Title of qualification awarded	BSc engineer in "Computer Systems and Technologies" (avg. 5.86)
Principal subjects/occupational skills covered	Computer Networks, Operating Systems, Database Theory, Computer Architectures, Microprocessor Systems, Programming Languages and Environments, Object-oriented Programming, Functional Programming, Supercomputers, Component Programming, Language Processors, Algorithms Theory, Software Engineering, Data Structures, Introduction to Digital Electronics, Circuits and Electronics, Signals and Systems, Computer System Engineering, Information and Entropy.
Name and type of the organisation	Technical University of Sofia, branch Plovdiv, Department "Computer Systems".
Dates	September 1996 – June 2001
Principal subjects/occupational skills covered	Mathematics, Informatics, and English.
Name and type of the organisation	High School of Mathematics "Acad. Kiril Popov" – Plovdiv.

Personal skills and competences

Mother tongue: Bulgarian

Other languages: **English, German**

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
German	A1	Basic	A2	Basic	A1	Basic	A1	Basic	A1	Basic

Social skills and competences: I have participated in various team works and projects as part of my education in High School, University and as a member of the international students exchange organization AIESEC.
I have abilities to adapt in multicultural environments acquired during my visit in Nottingham Trent University, UK (Summer 2005) and from the International conferences and competitions I have participated in.

Organisational skills and competences: Elected for a leader of the team participated in IEEE Computer Society International Design Competition CSIDC'05.

Driving licence: Category B

Additional information

Professional interests: Computer networks and communications, Parallel and distributed processing, Distributed embedded systems, System and Web programming, Network Security.

Memberships is scientific and professional organizations: Union of Automatics and Informatics, membership № 1986.
IEEE student member № 90739243
ACM student member № 4580678

Teaching experience:

- Assistant in "Computer Networks", Technical University of Sofia, branch Plovdiv, 2005-2011.
- Assistant in "Microprocessor Systems", TU of Plovdiv, 2006-2011.
- Assistant in "Distributed Systems and Computer Communications", TU of Plovdiv, 2007-2011.
- Instructor for the course "Cisco Certified Network Associate", 2004-2005.

Membership in research and scientific projects:

- "HOCFIT" (Home Control Automation) – student project in the context of Computer Society International Design Competition CSIDC'05, IEEE.
- National Science Fund of Bulgaria project, contract DVU-10-0100/2010 subject: "Modern approaches in the design of clinical information system (CIS) for observation of pediatric surgery diseases".
- National Science Fund of Bulgaria project, contract VU-MI-108/2005 subject: "Web Services and

Data Integration in Distributed Automation and Information Systems in Internet Environment"

- National Science Fund of Bulgaria project, contract MU-MI-102/2005 subject: "Analysis of attacks and methods for securing Web services in global networks".
- Technical University of Sofia project on subject: "Web-based experimental network of controllers for analysis of informational interaction in distributed automation systems".

References available upon request

Annexes

Annex 1 – Published scientific papers.

Annex 1

Published scientific papers

1. Shopov, M. and G. Spasov “Analysis of IEEE 802.15.4-based Body Sensor Networks through simulation, “ Journal of the Technical University Sofia, branch Plovdiv “Fundamental Sciences and Applications”, Vol. 16, 2011.
2. Shopov, M., V. Spasova, G. Spasov, "Testbed Environment for Experimental Analysis and Applications Prototyping in Body Sensor Networks," in Proceedings of 11th International Conference on Computer Systems and Technologies – CompSysTech'10, ACM ICPS Vol.471, pp. 263-268, June 17-18 2010, Sofia, Bulgaria.
3. Shopov, M., G. Petrova, G. Spasov, "On the use of Bluetooth in Body Sensor Networks, " in Journal of Electronics, vol. 4, no.2, pp. 154-157, 2010, ISSN 1313-1842.
4. Shopov, M., N. Kakanakov, and G. Petrova, "Profile-based protocol for data interactions in Body Sensor Networks ," Proc of ELECTRONICS'09, Sozopol, Bulgaria, 14-17 Sept. 2009, pp.39-42.
5. Shopov, M., N. Kakanakov, and G. Spasov, "Distributed system for monitoring of physiological parameters in Web-based Personal Health Systems ," Proc of ELECTRONICS'09, Sozopol, Bulgaria, 14-17 Sept. 2009, pp.35-38.
6. Shopov, M., G. Spasov, and G. Petrova, "Architectural models for realization of Web-based Personal Health Systems," International Conference on Computer Systems and Technologies - CompSysTech'09, page IIIB.5, 2009.
7. Shopov, M., N. Kakanakov, and G. Spasov, "On the use of NS-2 is Simulations of Internet-based Distributed Embedded Systems," Proc. Industrial Electronics (INDEL'08), Banja Luka, Bosnia and Herzegovina, November 2008, pp. 211-215.
8. Shopov, M., N. Kakanakov, and G. Spasov, "A Web Service for Data Visualization in Distributed Automation and Information Systems," Proc of the 4th International Conference Computer Science, Kavala, Greece, 17-20 Oct. 2008.
9. Kakanakov N., M. Shopov, and G. Spasov, "Time-Delay Simulation Analysis of Local Controller Networks," International Conference on Computer Systems and Technologies - CompSysTech'08, page IIIA.12, 2008.
10. Shopov, M., H. Matev, and G. Spasov, "Evaluation of Web Services Implementation for ARM-based Embedded System," Proc of ELECTRONICS'07, Sozopol, Bulgaria, 19-21 Sept. 2007, pp. 79-84, ISBN: 1313-1842.
11. Shopov, M. and N. Kakanakov, "Evaluation of a single WS-Security implementation," Proc of the International Conf. Automatics and Informatics 2007, Sofia, Bulgaria, 3-6 Oct. 2007, pp.VI-39-VI-42.
12. Kakanakov, N., M. Shopov, G. Spasov, H. Htistev, "Performance Evaluation of Switched Ethernet as Communication Media in Controller Networks," Proc of CompSysTech'07 , Rousse, 15-16 June 2007, pp. IIIA.8-1-IIIA.8-6, ISBN: 978-954-9641-50-9.
13. Shopov, M., I. Stankov and N. Kakanakov, "Standards and Technologies for Web Services Security,", Journal Automatics and Informatics, 2007, vol 2 pp.8-11.
14. Kakanakov, N., M. Shopov, I. Stankov and G. Spasov, "Web Services and Data Integration in Distributed Automation Systems in Internet Environment," International Review on Computers and Software, November, 2006, ISSN: 1828-6003.
15. Shopov, M., I. Stankov, N. Kakanakov, and G. Spasov, "On the Use of XML for Data Access in Networks of Embedded Devices," Proc of 3th International Bulgarian-Turkish Conference Computer Science, Istanbul, Turkey, 12-15 Oct., 2006.
16. Kakanakov, N., M. Shopov, and G. Spasov, "A New Web-based Multi-tier Model for Distributed Automation Systems," Journal of Information Technologies and Control, Vol. IV, no. 2, 2006, pp.44-48, ISSN: 1312-2622.
17. Kakanakov, N., M. Shopov, and G. Spasov, "Distributed Automation System based on Java and Web Services," Proc of CompSysTech'06 , V. Tarnovo, 15-16 June 2006, pp.III-A.24-1-6.
18. Shopov, M. and E. Peytchev, "Generation and Dissemination of Traffic Information in Vehicular Ad-hoc Networks," Proc of the 2nd International Scientific Conference Computer Science, Chalkidiki, Greece, 30th September - 2nd October, 2005, pp.149 - 154, ISBN 954-438-526-6.