
ABOUT THE AUTHOR

PERSONAL INFORMATION



Name **STOYANOVA, TSENKA LAZAROVA**
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 Nationality **BULGARIAN**

WORK EXPERIENCE

Dates (from – to) **FROM MAY 1995 UNTIL APRIL 1998**
 Name and address of employer **“TCHERNO MORE “ LTD – VARNA, BULGARIA**
 Type of business or sector **MARINE AND RIVER RADAR SYSTEMS DEVELOPMENT**
 Occupation or position held **SOFTWARE ENGINEER**
 Main activities and responsibilities **ASSEMBLER PROGRAMMING FOR TEXAS INSTRUMENTS DSPS**

Dates (from – to) **FROM MAY 1998 UNTIL SEPTEMBER 2001**
 Name and address of employer **DEPARTMENT OF ELECTRONICS AT THE TECHNICAL UNIVERSITY OF VARNA, BULGARIA**
 Type of business or sector **EDUCATION**
 Occupation or position held **TEACHING ASSISTANT**
 Main activities and responsibilities **TEACHING ON “MICROPROCESSOR SYSTEMS” AND “DIGITAL SIGNAL PROCESSING” COURSES.**

Dates (from – to) **FROM 1998 UNTIL 1999**
 Name and address of employer **“DELTA INSTRUMENTS” LTD, VARNA, BULGARIA**
 Type of business or sector **EQUIPMENT FOR MEASUREMENT AND CONTROL**
 Occupation or position held **DESIGN ENGINEER**
 Main activities and responsibilities **HARDWARE AND SOFTWARE DESIGN (PART TIME)**

Dates (from – to) **FROM SEPTEMBER 2001 TILL NOW**
 Name and address of employer **APPLIED ELECTRONICS LABORATORY, UNIVERSITY OF PATRAS, GREECE**
 Type of business or sector **EDUCATION**
 Occupation or position held **RESEARCHER**
 Main activities and responsibilities **PROGRAMMING AND MODELING**

EDUCATION AND TRAINING

Dates (from – to)	FROM SEPTEMBER 1989 TO JUNE 1994
Name and type of organization providing education and training	TECHNICAL UNIVERSITY OF VARNA, BULGARIA DEPARTMENT OF ELECTRONICS AND MICROELECTRONICS
Principal subjects/occupational skills covered	INDUSTRIAL MICROPROCESSOR SYSTEMS, HARDWARE DESIGN
Title of qualification awarded	ELECTRICAL ENGINEER

PERSONAL SKILLS AND COMPETENCES

Mother tongue **BULGARIAN**

OTHER LANGUAGES

ENGLISH
Reading skills [excellent]
Writing skills [good]
Verbal skills [good]

RUSSIAN
Reading skills [excellent]
Writing skills [good]
Verbal skills [excellent]

GREEK
Reading skills [good]
Writing skills [basic]
Verbal skills [good]

SOCIAL SKILLS AND COMPETENCES

VERY GOOD SOCIAL SKILLS IN TEAMWORK

- WORK AS A TEAM MEMMBER OF THE MARINE AND RADAR SYSTEM DEVELOPMENT GROUP AT “TCHERNO MORE” LTD – VARNA, BULGARIA.
- WORK AS TEACHING ASSISTANT IN DEPARTMENT OF ELECTRONICS AT THE TECHNICAL UNIVERSITY OF VARNA, BULGARIA
- WORK AS A TEAM MEMMBER OF THE APEL AT THE UNIVERSITY OF PATRAS, GREECE, ON THE EUROPEAN PROJECT “SOLVING MAJOR PROBLEMS IN MICRO SENSORIAL WIRELESS NETWORKS” SINCE OCTOBER 2006 (USWN - FP6-2005-IST-034642).

TECHNICAL SKILLS
AND COMPETENCES

PROGRAM LANGUAGES: MATLAB, C++, NESC
PCB DESIGN TOOLS

ARTISTIC SKILLS
AND COMPETENCES

DRAWING, DESIGN

PUBLICATIONS

Books:

- [B1]. J. Kolev, Ts. Stoyanova, V. Penchev, I. Buliev, T. Ganchev, “*Microprocessor systems – laboratory exercises*”, Technical University of Varna, Varna, Bulgaria, 2000. (in Bulgarian)

Journal articles:

- [J1]. Ts. Stoyanova, F. Kerasiotis, A. Prayati, G. Papadopoulos, “Evaluation of Impact Factors on RSS Accuracy for Localization and Tracking Applications in Sensor Networks”, Special issue of Telecommunications Systems Journal, Springer, Vol.42, Dec. 2009, pp. 235-248, doi: 10.1007/s11235-009-9183-8
- [J2] C. Antonopoulos, A. Prayati, Ts. Stoyanova, C. Koulamas, G. Papadopoulos “A modeling approach on the TelosB WSN platform power consumption”, The Journal of Systems and Software 83 (2010), Elsevier Inc., pp. 1355–1363, doi:10.1016/j.jss.2010.01.015
- [J3] F. Kerasiotis, Ts. Stoyanova, G. Papadopoulos, “Evaluation of Outdoor RSS-Based Tracking for WSNs Aiming at Topology Parameter Ranges Selection”, International Journal on Advances in Networks and Services, Vol. 3, numbers 1&2, 2010, pp.133-150
- [J4] Ts. Stoyanova, F. Kerasiotis, G. Papadopoulos, "Deployment Considerations for Reliable Communication in Wireless Sensor Networks", International Journal on Advances in Networks and Services, Vol. 3, numbers 1&2, 2010, pp.151-162

Conference papers:

- [C1] Ts. Stoyanova, G. Papadopoulos, “Wireless Sensor Networks for Medical Service”, 5th European Symposium on Biomedical Engineering ESBME 2006, 07- 09 July 2006, Patras, Greece
- [C2] Ts. Stoyanova, G. Papadopoulos, “Integrated Approach for Wireless Sensor Networks Design”, 5th International Symposium of CSNDSP, 19-21 July, 2006, Patras, Greece, pp. 583-587
- [C3] Ts. Stoyanova, F. Kerasiotis, A. Prayati, G. Papadopoulos, “Evaluation of impact factors on RSS accuracy for Localization and Tracking Applications”, in Proceedings of 5th ACM International Workshop on Mobility Management and Wireless Access - MobiWac 2007, Chania, Crete Island, Greece, October 22-22, 2007, pp.9–16, (Best Paper Award) doi: 10.1145/1298091.1298094
- [C4] F. Kerasiotis, Ts. Stoyanova, A. Prayati, G. Papadopoulos, “A Topology-Oriented Solution Providing Accuracy for Outdoors RSS-Based Tracking in WSNs”, The Second International Conference on Sensor Technologies and Applications, SENSORCOMM 2008, August 25-31, 2008, Cap Esterel, France, pp.239-245, doi: 0.1109/SENSORCOMM.2008.122

- [C5] Ts. Stoyanova, F. Kerasiotis, A. Prayati, G. Papadopoulos, “Communication-aware Deployment for Wireless Sensor Networks”, The Second International Conference on Sensor Technologies and Applications, SENSORCOMM 2008, August 25-31, 2008, Cap Esterel, France, pp.217-222, doi: 10.1109/SENSORCOMM.2008.97
- [C6] C. Antonopoulos, A. Prayati, Ts. Stoyanova, C. Koulamas, G. Papadopoulos, “Experimental Evaluation of a WSN Platform Power Consumption” The 8th International workshop on PME0-UCNS’2009, May 25-29, 2009, Rome, Italy pp. 1-8, doi: 10.1109/IPDPS.2009.5161185
- [C7] Ts. Stoyanova, F. Kerasiotis, A. Prayati, G. Papadopoulos “A Practical RF Propagation Model for Wireless Network Sensors”, The third International Conference on Sensor Technologies and Applications, SENSORCOMM 2009, June 18-23, 2009, Athens-Vouliagmeni, Greece, pp. 194-199, doi: 10.1109/SENSORCOMM.2009.39
- [C8] Ts. Stoyanova, F. Kerasiotis, K. Efstathiou, G. Papadopoulos, “Modeling of the RSS Uncertainty for RSS-Based Outdoor Localization and Tracking Applications in Wireless Sensor Networks“, The Fourth International Conference on Sensor Technologies and Applications, SENSORCOMM 2010, July 18-23, 2010, Venice/Mestre, Italy, pp. 45-50, doi: 10.1109/SENSORCOMM.2010.14