Vladimir Iankov Ivanov

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EDUCATION

Master's Degree, <u>Technical University - Sofia (Bulgaria)</u>	09 / 1992 09 / 1997
Faculty of Communication Technics and Technologies	Overall GPA: 5.90 / 6.00
Major: Communication Technics and Technologies	
Specialization: Telecommunication Technologies	
Thesis: "A Study on Voice Transmission in a Fast Packet Switching Net	work" Grade: 6.00 / 6.00
Professional Qualification, <u>Technical University - Sofia (Bulgaria)</u>	09 / 1994 07 / 1997
Open Faculty, evening course of study	Overall GPA: 5.44 / 6.00
Specialty: Management	
Thesis: "A Study on Modern Logic-probabilistic and Structural Method	Grade: 6.00 / 6.00
in the Technology of Risk Analysis and Risk Management"	
High School of Mathematics and IT, Sofia (Bulgaria)	09 / 1986 06 / 1992
Professional qualification: Programmer	GPA: 5.85 / 6.00

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PROFESSIONAL EXPERIENCE

Alcatel Bell (Antwerp, Belgium)

05 / 2000 -- 01 / 2003

System Engineer, ADSL Modem Team

- High-level modeling, simulation, and analysis of ADSL transceivers and media:
 - Validated, debugged, and expanded existing models.
 - Developed models of new product releases.
 - Contributed to standardization activities: ADSL for ETSI and ADSL2+ for ITU.
 - Initiated the development of a new simulation architecture.

- Mixed-deployment scenario of ADSL from the central office and ADSL2+ from the remote unit:
 - Performed a feasibility study and introduced a proof-of-concept ADSL2+ transceiver.
 - Measured the performance of the transceivers and analyzed their behavior.
- Design of new product releases of ADSL over ISDN at the central office and the customer site:
 - Adapted and improved the time-domain equalizers.
 - Adjusted and optimized the DSP front ends.
- ADSL system analysis and problem solving:
 - Fixed problems with time-domain equalization, high bit-error rate, and synchronization.
 - Validated and optimized the system performance.
 - Resolved interoperability problems with chipsets of other vendors.
- Other:
 - Evaluated an ADSL chipset of Tioga Technologies.
 - Conducted internal trainings and technology knowledge transfer.
 - Documented the work and the acquired knowledge.

Sparnex CoC (Sofia, Bulgaria)

07 / 1999 -- 04 / 2000

Design Engineer, R&D Department

01 / 1998 -- 05 / 1998

- Developed a discrete-time simulator of non-uniformly sampled lumped circuits.
- Designed several signal processing algorithms.
- Performed functional and environmental qualification tests and reliability analysis of a power supply and control unit for a satellite telescope module of the European Space Agency.

SmartCom (Sofia, Bulgaria)

07 / 1996 -- 04 / 1997

Design Engineer, R&D Department

- A PABX-serving terminal adapter for ISDN Primary Rate Access:
 - Optimized the analog front end and digital hardware.
 - Redesigned the two-level board system into a single board.
 - Performed EMC measurements and improved the PCB design, leading to a successful EMI certification.
- Designed the clock recovery and front ends of a 2 Mbps converter between AMI and HDB3 codes.

Express Consult (Sofia, Bulgaria)

Summer 1995

• Assembled PC hardware and installed computer networks.

SKILLS

• System-level design: MATLAB, Simulink, SDL

• Hardware design: PSpice, CADSTAR; spectrum analyzer, oscilloscope

• Software development: C, C++, Visual Basic, Pascal, JScript, Assembly for i8086/51; ClearCase

• Operating systems: Windows, UNIX (SunOS)

LANGUAGES

English: fluent Bulgarian: native Russian: functional German: fair

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