



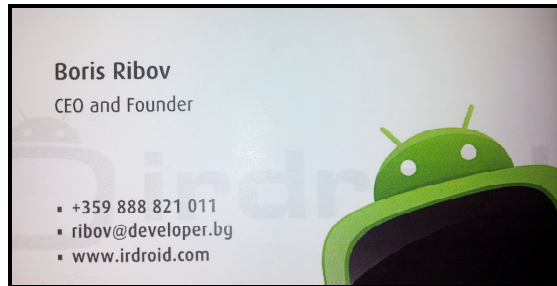
Dr.Eng. Boris Ribov

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Technical University of Sofia – branch of Plovdiv,
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CURRICULUM VITAE

QUALIFICATIONS

- 1995: Technician in *Industrial Electronics*, Technical School of Plovdiv
- 2002: Master of Science Diploma in *Computer Systems and Technologies*, Technical University of Sofia - branch of Plovdiv
- 2015: Ph.D degree in *Computer Sciences*, Technical University of Sofia

OTHER QUALIFICATIONS

- 1989: 1st place in regional competition in radio-electronics
- 1990: 2nd place in regional competition in radio-electronics
- 1993: Certificate for Technician in B&W and color TV; service & repair
- 1995: Certificate for Computer Operator: MS-DOS, Windows, MS Word
- 1998: Certificate for ham radio-communication, license class 3
- 2000: Brainbench certificate – Windows'98 Power User
- 2000: Brainbench certificate – Computer Technician
- 2003: Award from ACM in the proceeding of CompSysTech'2003
- 2004: Brainbench certificate – Assembly Language
- 2004: Brainbench certificate – Digital Signal Processing
- 2004: Brainbench certificate – DOS 6.2
- 2004: Brainbench certificate – Computer Technical Support
- 2004: Brainbench certificate – Computer Electronics
- 2005: Diploma, Academic Society of Computer Systems and Information Technologies; Varna,
- 2006: Diploma, Academic Society of Computer Systems and Information Technologies; V.Tyrnovo,
- 2007: DVB training at ST Microelectronics, Grenoble, France
- 2012: Speaker at the Android conference Droidcon 2012 in the Netherlands

WORKING EXPERIENCE

- 1995-1998: Self employing as a PC programming consultant/developer
- 1998-2002: *Lakal Ltd.* – System & Network Administrator

WORKING EXPERIENCE (continues)

- 2002-2003: *TeleSys Ltd.* – Hardware and Application engineer for the RF applications
2003-2006: *Space Research Institute at Bulgarian Academy of Science* – Ph.D. student and RF designer at Air Force base of Graf Ignatiev
2005: *Institute for Parallel Processing at Bulgarian Academy of Science* - RF designer
2004-2006: *Valvecs Technology PLC* – Team Leader, R&D, Hardware & Application engineer
2007-as yet: *Technical University of Sofia, branch of Plovdiv* – Assistant Professor

ACADEMIC COURSES

(Lecturer at Technical University of Sofia – branch of Plovdiv, Computer systems and technologies)

- **Wireless Computer Local Networks**
- **Digital Electronics** (Bachelor degree)
- **Computer Peripherals** (Bachelor degree)
- **Microprocessor systems** – Linux Assembler language for i80x86 (Bachelor degree)
- **Microprocessor technics** – Assembler & ANSI-C language for PIC micro controllers (Bachelor degree)

RESEARCH ZONES / INTERESTS / OPEN R&D PROJECTS

- Hardware & Electronics
- High-End and Pro-Audio equipment development
- Reel-to-Reel and magnetic tape recording
- Embedded Systems & Firmware design (Assembler & ANSI-C)
- DVB – Digital Video Broadcasting (SAT, CABLE, TERRESTRIAL, IP-TV)
- Wireless Radio Communications (IEEE 802.11; IEEE 802.15, WiFi, ZigBee, etc)
- WEB based smart electrical energy meter (WebElectrometer)
- Smart WEB based efficiency full colour LED lamb (AmbiLED)

SOME OF THE FINISHED PROJECTS

- (2008) *Design and Development of satellite DVB receiver (set-top-box); ST OS20 - RTOS*
- (2009) *Design and Development of RFID identification and access control system;*
- (2010) *Design and Development of Wi-Fi HotSpot system based on SMS electronic payments;*
- (2010) *Design and Development of single-chip RADIUS server for user authentication in Wi-Fi networks;*
- (2011) *IrDroid – Universal IR remote control for Android (www.irdroid.com);*
- (2012) *Etherfeed – Connected your way (www.etherfeef.com) is a stand-alone Ethernet LCD display for monitoring some WEB servers statistical data;*



PUBLISHING LIST

1. Spasov G., Ribov B., "Spread Spectrum for Wireless Systems using PIC based micro-controllers as a Spreader", Proceedings of the Eleventh International Scientific and Applied Science Conference, Electronics ET'2002, Sozopol, Bulgaria, book 2, ISBN 954-438-327-1, pp.89-94, September 25-27, 2002
2. Ribov, B.Y. and Spasov, G., "Complementary code keying with PIC based microcontrollers for the wireless radio communications", CompSysTech'03, Sofia, Bulgaria, ACM Press, New York, NY, USA, ISBN 954-9641-33-3, pp. 66-70, 2003
3. Ribov B., "Software state machine decoder for the infrared remote control units using Bi-phase coding scheme", Electronics ET'2004, Sozopol, Bulgaria, book 2, ISBN 954-438-446-4, September 22-24, 2004
4. Ribov, B., Grozev, D., Kakanakov, N., Spasov, G., "Investigation of interference between Bluetooth and wireless LAN working on 802.11", Scientific Session at Technics, Agrarian Sciences and Technologies, Plovdiv, Bulgaria, ISSN 1311-9192, pp.52-57, 2005
5. Ribov B., Mashev I., Kakanakov N., "Digital Video Broadcasting satellite receiver based on high performance single chip microprocessor", Electronics ET'2005, Sozopol, Bulgaria, ISBN 954-438-520-7, Sept. 21-23, 2005
6. Ribov, B., "A method for decreasing the multipath interference in digital data transmission over wireless radio channels and its implementation on single chip microcontroller as a wireless data encoder", Proceeding of the International Conference of Computer Systems and Technologies CompSysTech'05, Varna, Bulgaria, ISBN:954-9641-44-2, June 16-17, 2005
7. Ribov B., "Method for noise interference reduction in wireless radio data communications using the multi-carrier principle", Electronics ET'2005, Sozopol, Bulgaria, ISBN 954-438-717-7, September 21-23, 2005
8. Ribov, B., "Introducing the newest Philips' microcontrollers into secured telemetry wireless applications", Proceeding of the International Conference of Computer Systems and Technologies CompSysTech'06, V.Tarnovo, Bulgaria, ISBN-10: 954-9641-46-5; ISBN-13: 978-954-9641-46-2, June 15-16, 2006
9. Ribov B. "Simple Transparent Radio-modem for The 10 GHz Microwave Band", Electronics ET'2006, Sozopol, Bulgaria, ISBN 954-438-564-9, September 20-22, 2006
10. Kakanakov N., Ribov B., "Distributed System for Monitoring and Control in Internet Environment" "Fundamental Sciences and Applications", Vol. 13(1), ISSN 1310 – 8271, pp.49-54, 2006
11. Ribov B., "State of the Art Methods in Wireless Radio Data Transmission that are Applicable in Industrial Environments", Avtomatika & Informatica, SAI, Sofia, ISSN 0861-7562, Vol 1, pp 57-61, 2007
12. Mitev A., Ribov B., "Truecolor Remote-Controlled Modular System For Lighting and Lighting Effects", Electronics ET'2008, Sozopol, September 23-24, ISSN 1313-1842, Bulgaria, 2008
13. Ribov B., Arnaudov S., "Radio frequency identification in use with guard and security systems", Electronics ET'2008, Sozopol, September 23-24, ISSN 1313-1842, Bulgaria, 2008
14. Ribov B., Y. Ribov, "Analysis of the efficiency of residential inverter air conditioner systems", International Conference Engineering, Technologies and Systems - TechSys '2009, ISSN 1310 - 8271, Plovdiv, Bulgaria, 2009
15. Ribov B., Tashev D., "Monitoring and Control of Communication Equipment in Remote Locations", Annual Journal of Electronics, ISSN 1313-1842, Bulgaria, 2009
16. Ribov B., Dimitrov S., Petrushev I., Atanasova T., "Electronic Energy Meter suitable for Energy Efficiency Analysis", Annual Journal of Electronics, ISSN 1313-1842, Bulgaria, 2009
17. Ribov B., "Investigation of a Bit-Error-Rate in Multipath Wireless Data Radio Transmission", Annual Journal - NMU "Vasil Levski", V. Turnovo, ISSN 954-753-035-6, Oct. 19-20. 2009
18. Ribov B., G. Bakalski, A. Redzheb, D. Olesh, "WEB Based Electronic Energy Meter suitable for Energy Efficiency Analysis", Annual Journal of Electronics, ISSN 1313-1842, Bulgaria, 2011
19. Ribov B., "Multipath Effects in High Speed Digital Radio Communications", ANNUAL JOURNAL OF ELECTRONICS, ISSN 1314-0078, Bulgaria, 2014