

Christo Radev

professional resume

Personal Information

Date of birth: 23 April 1953, Plovdiv, Bulgaria.

Nationality: Bulgarian.

Marital status: Married, two children (1977 and 1980 born).

Objectives

Main: Seeking contract or full-time job in team building, management and working on a telecommuting basis in the field of embedded systems HW, SW and FW design and development.

Benefits: Could be involved in projects even long term, wide, innovative and interdisciplinary ones, where my skills and knowledge in Mathematics, Physics, Quantum Electronics, Engineering (Electronics, Nuclear and Mechanical), Instrumentation, Automation, Computer Sciences and IT will be best fitted and profitable.

Keywords

Parallel, Real-time, Embedded and Internet programming, Wired/Wireless communications, Audio/Video processing and streaming, SAOP, RTOS, SSL, TCP/IP, C/C++, Java, .NET, Linux, Windows, Eclipse, ECF, RCP, RAP.

Experience

Hardware: Cluster/Cloud computing incl. low power, ARM Cortex M3/M4, A7/A8 incl. multicore, Arduino/Maple and alike HW, AVR 8/32 bit, MIPS32, XScale, x86/IA32/IA64, x86-64, TC65, E1-16/32SX, x51, R4000, MC 6800/68000, IMS T414/T800, SCSI/PCI/ISA/IDE, VME-bus, Q-bus, CAMAC, Ethernet/CAN, IEEE488, RS232/RS485, RFID/NFC.

Platforms (OS): Many RTOS (FreeRTOS, ChibiOS, eCOS etc.), Many Linux Distros incl. embedded (Debian/Ubuntu, Angstrom etc.), Yocto distribution building platform, QNX, AperiOS, MS Windows (incl. Server 2008), Solaris, Unix/Helios.

Technologies: Eclipse SCOUT, ECF, RCP, RAP, (R-)OSGi; SOA/OSA, real-time control, Data/Audio/Video streaming and processing, Internet and Access Security, SSI/CSI, OO/Distributed/Multi-agent, Client/Server, HTM/CLA.

SW Languages: C/C++, Java, XML, HTML/DHTML, UML, SQL, .NET, Basic/VB, Pascal/Delphi, Fortran, Clipper, Lisp, OCCAM, User defined/Parallel/Script languages, Assemblers.

Networking: SOAP, HTTP, SSL, TCP/IP, GPRS/Wireless/Ethernet/Serial/Parallel, dial-up/lased/X25/CAN; straming and real-time networking, Homogeneous/Heterogeneous networks, Servers/Routers/Switches/Gateways, Services/Protocols.

SW Tools: Eclipse C/C++/ Java etc. Development Platforms, IAR Embedded Workbench for Arm, Arduino/Maple and alike SW, MS .NET Visual Studio, C++ Builder 6, Siemens TC65 WTK, E1-32SX SDKs and RTOS, Borland's Delphi 6, MS C/C++ with MFC & MS Windows SDK 7.0; Linux, Unix, Helios and QNX C/C++ SDKs/GDKs; Sony's & Green Hill's AperiOS C++ SDK and Middleware for Aibo robots; Symantec's Cafe 3; Sun's PC NFS 4.0 SDK; Waterloo TCP SDK for MS-DOS; Clipper, DBase, Gupta SQL 4.0 for MS-DOS and Windows; WATCOM SQL 3.2, Sybase Anywhere SQL 6.0, InterBase SQL Server 5, MySQL etc.; PowerSoft's PowerMaker 3.0; ODBC, BDE Administration and Programming; OCCAM 2 TDS, Standalone programming toolsets for Parallel C, Fortran and Pascal.

Special SW: ZeroMQ, OpenCloud, ZeroConf, gSOAP; Expat; OpenSSL; SOAP/HTTP embedded client and servers; VLC, WEB Servers Apache for Linux, PWS, IIS and Apache for Windows; WEB Browsers – IE for Windows, Netscape's and other browsers for Windows, Linux and QNX; NTOP, CUPS, PHPMyAdmin and other administration software for Linux, Windows and QNX; Graphic development platforms for Windows, X Windows, KDE for Linux and Photon for QNX; Sun's PC NFS 4.0, Ka9Q Network OS, PC Route, IP Route, Novell's LAN Analyser; Creative Labs and other companies' software for video, audio, music and speech processing; MS PowerPoint, QuickTime and other software for multimedia presentation; Ulead, Xing Technology Corp. and other software for MPEG processing.

Application SW: Virtualisation SW (VMware, Qemu etc.), MS Office 2010; Corel Draw 9, Adobe's Acrobat 6.0, PageMaker 5.0, Illustrator and Photoshop; Ulead's Media Studio 2.5, Sound Forge 4.0; Ventura Publisher for MS-DOS; AutoCAD for MS-DOS and Windows; REDAC's RedBoard and OrCAD for schematic and PC-board design and many others.

Open Source SW GNU (gcc, binutils etc.), Linux (Yocto, Debian, Ubuntu, OpenWRT, SlugOS etc.), Apache (HTTP Server, Ant, Continuum, Geronimo etc.), Eclipse (IDE, MyLyn, DSDP, ECF, RCP, RAP, SODA etc.) , OSGi (Equinox , Knopflerfish, Concierge etc.), MySQL, PHP, VLC, OpenOffice, JBoss, Tomcat, Jetty, Trac, Bitten, BuiltBot etc.

Education

1997 – 1998 Finance and Accounting at University of National and World Economy Sofia

Finances, Credit and Accounting – Secondary MS degree

- Graduation thesis "Finances, Credit and Duties of Capital Companies with Limited Responsibility";
- Interests in IT and mathematical aspects of economics, data processing and storing.

1983 – 1984 Bulgarian Academy of Science, CLASI Sofia

Computer Sciences and Scientific Instrumentation – Secondary MS degree

- Conference and exhibition participations, Patents, Scientific publications;
- Graduation work: "HW/SW Co-design of Intelligent RS232/RS485/IEEE488 Controllers";
- Interests in HW, SW, FW, system and sub-systems design, implementation, production and quality assurance, scientific instrumentation and automation, computer sciences and IT.

1974 – 1979 Sofia University, Department of Physics Sofia

Engineer Physics – MS degree

- Conference participations, Scientific publications;
- Graduation work: "X-Ray Emission in a Laser Created Plasma in the Presence of High Electric Field";
- Interests in interaction of high energy laser beams and matter, scientific instrumentation, optics, image processing in astronomy, photoelectric effects on a surface of semiconductors.

Occupations

2014 till now Freelancer

Freelancer in Embedded and Distributed Systems Development

- UWB ground penetrating radar system – HW/SW platform (Architect, Software and Hardware developer) STM32F4/RTOS, A20/Linux, OSGi, Multiplatform RCP/RAP, RT control and DSP, C/C++/Java;

2011 – 2014 Sogodi Ltd. (R&D for RISCO Group – Israel)

Plovdiv

Access Control Systems – Embedded systems programmer

- New generation RISCO Readers – research and development of Embedded Cloud application for Access Control NXP RFID/NFC HW/SW, Allwinner A10/20 Arm MCUs, Embedded Linux incl. X window and web browsers, OpenJDK, ZeroMQ, Cloud computing MW/SW and tools, Eclipse Scout/ECF/RCP/RAP, Derby DB, Tomcat 7;
- Automated functional, stress and reliability testing for RISCO RFID Readers and AxesPLUS system own methodology, SW and HW for a long term, extremely intensive in-system product testing and analyses;
- RISCO RFID Readers – firmware development, testing and support C/C++, FreeRTOS, NXP RFID chipsets, IAR ARM Workbench, Original testing methodology;
- RISCO Access Control system (AxesPLUS) – installation, testing and usage.

2009 – 2011 Freelancer

Freelancer in Embedded and Distributed Systems Development

- Undisclosed – Teklogix 7530 g2 Embedded Scanning Software for ERP System Windows CE, .Net CF 2.0, SOAP, clien implementation and JSP/Progress SOAP srvice setup;
- Undisclosed – Micro Impulse and Geo Radar HW/SW platform (Architect, Software and Hardware developer) Cortex-M3/RTOS, (R-)OSGi, Multiplatform RCP application, RT control and DSP, C/C++/Java;
- Undisclosed – VLF Metaldetector (Software and Hardware developer) Armel's AVR128, uSmartOS, gLCD, GUI, fast and precise real-time control.

2003 – 2008 Sogodi Ltd. (R&D for Electronics Line 3000 Ltd. – Israel)

Plovdiv

Security and home automation – Embedded systems division, Programmer

- Infinite-I – SOAP, HTTP, TCP/IP, Audio and Video support in embedded Internet enabled security system;
- Hyperstone RTK, SND's HyNetOS, Windows 2003 Server, RedHat Linux 9, IIS 6, Apache 2, Java 2, MySQL;
- Hyperstone and SND's SDKs, Eclipse, Borland C++ Builder 6, MS .NET Visual Studio;
- gSOAP, Expat, OpenSSL porting and usage; Encryption/Decryption; Audio/Video streaming over Internet;
- Research, development and testing of reliability and security at public domain communication;
- Research on usage and integration of open source products in company development process;
- Research on usage of OSGi, Wi-Fi, GSM/GPRS, Wireless Sensor Networks, Audio/Video etc. in security systems;
- New product line in security systems research, definition, development, testing and introduction.

1995 – 2003 Freelance consulting and telecommuting

Bulgaria

Freelance Consultant in Computer Sciences and IT

1989 – 1994 Nova Ltd.

Plovdiv

Computer department and Company Manager, Founder

1983 – 1989 Central Laboratory on Automation and Scientific Instrumentation
Branch Plovdiv, Bulgarian Academy of Science

Sofia

Branch Manager

1979 – 1983 Laboratory of Applied Physics, Bulgarian Academy of Science,
Quantum Electronics Department Manager

Plovdiv

Publications

Scientific: 15 publications in International and National magazines and conferences on physics, laser techniques and technologies, computer sciences, scientific instrumentation and automation.

Patents: 2 patents in laser techniques and intelligent device controllers.

Courses: 2 university courses in the fields of laser technologies and parallel computer architectures.

Participations: 12 participations in International, National and Students exhibitions and workshops on physics, astronomy, laser, computer, information and automation techniques, technologies and sciences.

Competitions: Taken part in mathematical and physical student's competitions and RoboCup2001, Sony's league.

Awards

1971 – 1983 2 golden, a silver medal and other won prizes from student's exhibitions and competitions.

Others

1990 Member of Computer Society of Malta.

1992 Co-founder of Bulgarian association on protection of Intellectual Property, Sofia.

1994 Completed self-studying and the course of Silva's Method of Mind Control at International Centre, Sofia.

Languages

Bulgarian: Mother tongue.

English: Excellent read, Very good written and spoken, Good understanding.

Russian: Excellent read and understanding, Very good spoken, Good written.

References

Available upon request: chradev@radevs.net

Resent photos

Me and my desks:

