

Dmitry Moshkovich

Senior Software Engineer

PROFILE

More than 20 years of experience in development Ethernet, TCP/IP, HTTP, WAN, TDM, ATM, Frame Relay and DOCSIS based voice and data products. System design and development from functional specifications and architecture right down to the lowest levels of implementation details, boards bring up and debugging. 10 years of hands-on managing team of software (and hardware) developers.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JS, HTML, Assemblers (Intel 8086, Motorola 68860 and XPC8260, AMCC, EZChip network processor).

OS: Linux (user space, kernel, U-Boot), VxWorks, ThreadX RTOS, FreeRTOS, pSOS, RTX, MQX, WIN32, winCE, bare metal.

HW Platforms: x86, 32 ARM (TI, Atmel, STM Cortex, Marvel), DSP, ATmega, Freescale PowerPC and others.

Protocols: Ethernet, TCP/IP, HTTP, SNMP, DOCSIS, CAN, RS232, I2C, SPI.

Tools: GNU, Poky-Yocto, BuildRoot, GIT, Jenkins.

EXPERIENCE

AUTOTALKS, SENIOR SOFTWARE ENGINEER: SEP 2019-PRESENT

Developing Resource Reservation module for 3GPP as part of CV2X (Cellular Vehicle-to-everything) team for CRATON & SECTON SoC.

FORTGATE COMMUNICATION, SOFTWARE TEAM MANAGER: 2012-2019

Hands-on managing a team developing video monitoring and control system targeting urban security.

- System architecture and software design
- Development of low level embedded firmware (SW/HW) for ARM based processors, TI DSP(OMAP L138) and 8-bit ATMEGA micro-controllers. Boards bring up.
- Numerous drivers for a Marvell LinkStreet Ethernet Switch family and Marvell PHYs.
- Power over Ethernet
- RTP over Ethernet DAHDI (aka Zaptel) module.
- Serial-To-CAN Converter system on chip
- User space applications, SNMP, Asterisks (Open Source PBX).

CARDICELL LDT, RND MANAGER: 2011-2012

Developing a self-care cardiac medical device detecting life-threatening diseases for tele-medicine. Hands-on managing a small team of software and hardware engineers.

- Bluetooth communication
- Multithreading time critical performance firmware
- ECG dedicated Texas Instruments ADC.
- Android and PC front-end applications.

CRESCENDO NETWORKS, SENIOR SOFTWARE ENGINEER AND TEAM LEADER:2006-2011

Load Balancer and Application Delivery Controller: architecture, software design and implementation.

- Platform manager. Led development activity of product SW and HW, version releases and response-point for customer problems.
- Embedded SW Team Leader. Responsible for EZChip and FPGA/NIOS development.
- Senior Software Engineer. Responsible for Host CPU core part of project: Connection Manager and Load Balancer.

ATRICA LTD, SOFTWARE DESIGN ENGINEER — 2005-2006

Took part in design and development Carrier Switches.

TERAYON INC., SOFTWARE ENGINEER — 1999-2004

- DSG (DOCSIS Set-top Gateway). Led development activity (including specification, design, implementation, interoperability and certification).
- Coordination of multi-site development efforts.
- Design and implementation of Spectrum Analyser daughterboard firmware (RF signal sampling and FFT analyses).
- Infrastructures, management, HW drivers and network applications.
- ATM SVC, management, infrastructures.

TEL AVIV UNIVERSITY, TEACHER — 2002-2003

State-financed courses for unemployed high-tech engineers: teacher for networking and real-time programming. (Hobby).

ECI TELECOM LTD., SOFTWARE ENGINEER — 1997-1999

Telecommunication Automated Test Equipment (ATE) software design and implementation.

EDUCATION

1995 – 1997 Tel Aviv University, Technical College

1989 – 1992 Polytechnic Institute of Kishinev, USSR