

Aleksandr Rybalko

Main info

Current Position: Developer/Consultant D-Link Ukraine.
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EDUCATION

Bachelor of computer science,
Institute Of Computer Technology
University "Ukraine" 2012

EDUCATION

Specialist of computer science,
State Economics and Technology
University of Transport 2013

EXPERIENCE

Developer/Consultant D-Link Ukraine March 2007 - present
Kiev

D-Link Ukraine - is the Ukraine office of the D-Link company, largest manufacturer of network equipment. <http://D-Link.ua/> (Lang: UA/RU)

Modification and writing software for embedded devices (C / C + + / Shell / Perl / Lua). Development of FreeBSD based firmware for routers/APs (DIR-320, DIR-620, DAP-1350, etc.). Training talks about usage and configuration of D-Link Ethernet Switches L2/L3.

Head of Network Technologies Department Farlep ISP November 2004 - March 2007
Nikolaev

Farlep ISP Nikolaev - is a regional department of one of biggest ISP in Ukraine. Now its name is Vega Telecom. Nikolaev department was have for about 10k customers those time I work there. <http://www.mk.farlep.net/> (Lang: RU)

Responsible for the site to work multiservice network. General system administration, routing, security policy. Writing and support of billing system. Planning and Accounting. Team leadership.

Head of network system administration sector Farlep ISP January 2003 - October 2004
Nikolaev

Responsible for the site to work multiservice network. System administration, routing, security policy. Writing and support of billing system.

Support service Farlep ISP October 2000 - October 2003
Nikolaev

Users support and consultations. Monitor the status of servers/services.

PROJECTS

Name: FreeBSD Port to Ralink RT3050F,RT3052F MIPS SoC

New drivers:

- DWC OTG USB driver, and its binding for RT305xF
- Interrupt controller
- System control device
- Serial device and its binding
- Ethernet MAC driver
- Ethernet switch driver and userland tool ("switchctl" in ZRouter.org HG tree)
- Pseudo driver, to copy u-boots nvram into kenv
- GEOM module for compressed FS using LZMA(and GZip)
- GEOM module to partitioning Flash or other storage by kernel hints info

Langs: C, MIPS assembler, Perl

Name: FreeBSD Port to Freescale i.MX515 ARM SoC

New drivers:

- Interrupt controller
- I2C driver

- HW Watchdog driver
- Basic video output support (initialized by u-boot)
- Serial device binding
- USB EHCI controller binding
- IDE ATA driver

Langs: C, Perl, Shell, ARM assembler

FreeBSD new virtual terminal (a.k.a. Newcons project) implementation
 Set of new drivers to support FrameBuffer for Broadcom BCM2835(Raspberry-Pi),
 Freescale i.MX515, DRI2 framebuffer(Intel, ATI cards)
 Langs: C, Shell

Name: ZRouter.org
 Descriptions: FreeBSD based firmware for SOHO class router.
 URL: <http://zrouter.org/>
 URL: <http://zrouter.org/hg/>
 Langs: C, C++, Perl, LUA, Shell

Name: ISP Billing software
 Langs: Perl, Shell, SQL (PostgreSQL, MySQL)

Name: Access servers monitoring system
 Langs: Perl, SQL (PostgreSQL)
 Technologies: SNMP

Name: Mail servers control and synchronization system
 Langs: C, Perl, Shell, SQL (PostgreSQL)

COMPUTER SKILLS

- designing, constructing and administering IP networks within the regional corporate and local networks and provide Internet access, Frame-Relay networks.
- design, maintenance, billing systems.
- administration of network server applications (Apache, BIND, powerdns, ProFTPD, flowd, cflowd, sendmail, popd, qpopper, squid, oops, snmpd, etc.)
- database PostgreSQL (14 years), MySQL. (13 years), Oracle (3 months)
- Administration skills in Unix-like operating systems (mostly, FreeBSD).
- hardware router (D-Link, Cisco, NSG)
- switches (D-Link, Cisco Catalyst, 3COM, Allied Telesyn)
- hardware access servers (Lucent MAX, Cisco AS5300, PC-based powered by FreeBSD)
- the DSLAM's (D-Link, Asotel, ZTE, ZyXEL)
- programming in C (16 years), Perl (15 years), Lua (4 years), Asm(i386, ARM, MIPS) (8 years), SQL (14 years), JavaScript (15 years)
- programming for embedded platforms(ARM/MIPS) C/C++
- network (TCP/IP) application programming (C, Lua, Perl) (14 years)

EXPERIENCE

Work experience in IT/Programming - 16 years.

Tag Cloud

#ARM #ATM #Billing #C #C-Shell #CSS #Drivers #Embedded #Ethernet #EthernetSwitch
#FrameRelay #FreeBSD #HTML #Hardware #IoT #JavaScript #Kernel #Lua #MIPS #Networks
#Perl #PostgreSQL #RISC #Routing #Shell #TeX #WebUI #p5-Catalyst #userland #xDSL

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