

Resume.

Name: Maksim Y. Feoktistov
Date of Birth: 1975/04/29
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Education: Height 1992-1998 - St.Petersburg State
Electra-Technical University.
Languages: Russian Native
English: technical, read, write, can speak.
French with dictionary.
Spanish with dictionary.

Particular competencies:

- Programming languages:

C, C++, assemblers(x86,ARM/Thumb,AVR) , Java, JavaScript,
Perl, Sh/Csh/Bash, HTML, PHP.

- Hardware:

I know well and have got experience:

- Basic and modern PC architecture, PCI bus, USB bus, SPI, I2C, UART , MII/RMII, Ethernet, etc...
- Schematic, modern base of components.
- Several MPU (ARM, Cortex A, Cortex M, AVR)
- x86 CPU, 32-bit, real/protected mode/
- x86-64 AMD64 instruction set
- Several ADC, DAC, Interfaces, Ethernet chips
- Popular protocols, like MODBUS

Have general knowledge, but have no experience:

- VHDL, Altera, Xilinx, other FPGA
- MIPS MPU, SPARC CPU/MPU

- Operation Systems:

Linux, Linux kernel, I have got experiences with creating Linux kernel modules and make special kernel build for custom devices. I good know Linux inside and outside, also I can be network administrator of Linux server/router.

Windows, WINAPI, Windows DDK.

Android, Android API.

- Web programming. I know HTML and JavaScript well. I know CGI interface very well, I've got the experience of development

CGI on C/C++, Perl, PHP.

- Databases. I've the experience with PostgreSQL, InterBase, MySQL, and has experience with low level protocol of MySQL.

- I very well know high level Internet protocols (HTTP,FTP,SMTP,etc.), and low level organization of IP (ARP,TCP/UDP/ICMP)

- I know well and have got experience with electric scheme, 74x logic microchips, some ADCs, some DACs, some interfaces, some micro-controllers, NAND-chips, RAM/DDR-RAM chip, etc...

I can create an electrical circuit, lay out a multi-layer PCB board.

- I very well know industrial automatic. I (myself or with group) can create full project for industrial, chose required controllers and devices, create the program for it. I know and have experience with few SCADA systems like Intelution Fix.

Professional experience:

My professional way began in 1996 at the university where I studied. I started working there when I was a student and after graduation I worked there for another 3 years.

- I have written soft for scanning electronic microscope. In St.Petersburg State Electra-Technical University this hardware device was made. It is very big system, using for scientific purposes, all its modes are controlled with PC, and electronic image from device transfers to PC. It draws in real time mode, it can be saved on HDD. Raster image looks like from TV-tuner, and zoom, bright, contrast, current of cathode, etc. can be change from PC. Also I wrote some utilities to work with those images.

- In St.Petersburg State Electra-Technical University hardware for control of high frequency induction stove for growing mono-crystal of SiC was made. I've written programs for this hard, and I've written functions for remote access to control machine from other computers with direct RS232 or modem connection.

- Also I've written some programs for testing and for using some specific hardware witch was built in St.Petersburg State Electra-Technical University and I've written some application for teaching students of the university.

After this I took part in few projects:

- I took part in big project, -- business server's software on Sun Solaris (SPARK) with Sun WorkShop C++ compiler.

- I wrote some VxD drivers for Windows 9x networking.

From 2003 to 2013 I worked in Oil-Industrial-Automation company. There we have created process control systems for many production facilities (oil depots, seaports, gas stations,

factories, airports). Usually our systems were built on the basis of industrial controllers working under Linux and input/output modules, sensors, frequency converters, etc. We made some systems on industrial PC-like controllers. We made custom Linux builds for them. We also used industrial controllers with ARM architecture and pre-installed Linux. Our software consisted of several modules. A common tag system united all other components: modules for controlling external equipment (level-meter, frequency converters, intelligent valves, gas analyzers, etc.), discrete and analog input-output modules receiving data from sensors, algorithms performing specified actions, network communication systems with other controllers (often in one system there were several controllers) and with the SCADA operator system, data archiving system, Web server, etc... Also in Oil-Industrial-Automation I has been create few custom devices (rangefinder, interface repeater for one of the industrial level meters). By the time I finished my job at Oil-Industrial-Automation company, I was leading a group of three programmers and coordinating the development engineers (helped with the choice of equipment and connection modes).

In 2013 Oil-Industrial-Automation company has been closed. I worked and continue to work as a private businessmen. My website is <http://lsol.ru> I still support some of Oil-Industrial-Automation clients. I help them with the modernization of the equipment installed earlier, connect new devices, etc. Also I create custom devices, usually based on ARM MPU. I had customers of devices for medical use, embedded control systems for refrigeration equipment, for automating production processes. Usually for small devices I prefer to use STM32 (ARM Cortex M) MPU. The largest device I have developed is several versions of embedded controller on ARM core (<http://en.lsol.ru/arp102.htm>). It is controller based on ARM926EJ-S MPU, 128Mb DDR2, Ethernet 100Mbit (2 Ethernet port switch), 2 USB host, microSD, etc. I create electric circuit, wire PCB boards, order component, create custom Linux modules for this board, and build custom Linux based on kernel 2.6

From 2016 to 2021, I also work part-time as a chief engineer in the "ARP-Complect TN" company. This company is mainly engaged in distribution, but it has one of its own development of a module for draining viscous oil products, the software and partly the hardware part of some versions of which I made.

- I have written many programs myself. E.g. Small HTTP Server (<http://smallsrv.com>) it is Web server+Proxy, FTP, SMTP, POP3, DNS, DHCP servers. Lot of features. There are Linux and Windows versions. I continue the development of this project.

- Also I have written few application for Android. An example "Glisada":
<https://play.google.com/apps/testing/com.smallsrv.glisada>

Objective:

I can create devices, write software, Linux core modules, network application, automation system etc. I can do it myself, or with the group. I prefer work under Linux and for *NIX based system.

Seek orders for development, or job, full time or part time.
Ready to move.