

# Volodymyr Tarasenko

## Hardware Engineer

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### TECHNICAL SKILLS

**Hardware:** USB to RS-232, VeriFone, Raspberry Pi, recovered DATA, Multimetr, Soldering, ECU (Electronic Control Unit), Fix, RAID, LAN

**Operating Systems:** MS Windows Server (RDP, FTP, HTTP, HTTPS, POP3, SMTP, Terminal Server etc) Putty  
Linux: MC Midnight Commander, VNC, terminal, .sh scripts etc  
FreeBSD: (kernel configuration, SSH, proxy, firewall, DNS) etc  
Macintosh/Hackintosh/MS DOS

**Experience:** Eagle PCB CAD schematic capture user.

**Software:** VMware, Parallels Desktop Inventor, Web design/UI (User Interface), Adobe Photoshop, Adobe Illustrator, FinalCut, Rhinoceros 3D modeling, MS Office, etc

**Programming Languages:** HTML, C++ (compil/debug code), QTcreator, CLion, Visual Studio/VSCode, CMakeLists.txt, JSON

**Banking Skills:** POS Master POS terminal, OpenWay Way4, Testing, Visa, MasterCard, AMEX, Inpass, EMV, "LFS" system this is EDMS - electronic document management system

**Installation:** network/telephone (UTP/FTP cable, low electric 220V/380V)

**Other skills:** SDR (software defined radio), DMR radio, Soldering, Multimetr, Oscilloscope, UpGrade/DowdGrade firmware on Android device, OpenWRT, AutoCAD, REI - rules of electrical installation Ukraine, Electrical installation guide According to IEC international standards "Schneider Electric S.A."

### IT related experience

**JSC "The State Export-Import Bank of Ukraine" – Head specialist-analyst** (10.2017 – Present)

I work with "INPAS POS Master" and "OpenWay Way4" system. This software system provides service for "VeriFone™" equipments, this system remote control payment POS-terminals network. Also, it's hardware/software complex for payment EMV card and maintenance payment card on cash registers. And I work with "LFS" system. This is EDMS - electronic document management system. It's a software program that manages the creation, storage and control of documents electronically.

// Setting of channels of connection between the VeriFone™ POS (point of service) terminal and bank equipments (DHCP/GSM modem - with help AT command)

// Installation of trade equipment at the trader

// **Testing** of software payment equipments and testing backend software configuration/updating software and testing software of POS terminal for Visa, MasterCard, PROSTIR, AMEX.

// **upgrade software** Update Operation system of payment terminal using

// Bug fixes and performance improvements, Load dump file/log from POS terminal

// use **DOS script** commands in **files.bat**, work with (USB converter to RS-232), Terminal Server (Windows Server)

#### During last year when I'd free time I was learning C++ on RaspberryPi

I learn C++ on embedded device. I can worked with OS Linux Debian on RPi and QTCreator on this board. Also I have been tuning on my desktop with Windows 10 plus CLion 2020 for remote run/debug code C++ on Raspberry Pi.

// I can work installation and configuration QtCreator on Raspberry Pi Linux create **.sh** file for autoimmunization when it was needed to reinstall software I use **MC** (Midnight Commander)  
 // I can run code "**POCO WebServer**" [www.pocoproject.org](http://www.pocoproject.org) configuration by using **CMake** for **Debug**  
 // I used remote access to board **Putty ssh** or **FAR commander, VNC, ftp**  
 // For convenience edit C++ code I used CLion editor on Windows and I edited CMake for debug code on my desktop GitHub:  
[https://github.com/dotignore/Raspberry/tree/master/Raspberry\\_Cpp/3\\_webfiles\\_cpp/edit\\_05\\_Qt%2BDebug\\_release](https://github.com/dotignore/Raspberry/tree/master/Raspberry_Cpp/3_webfiles_cpp/edit_05_Qt%2BDebug_release)  
 // I really spent a lot of time for tuning **VSCode** Debug mode on **Raspberry Pi** and I couldn't run **JSON** file in this **IDE** for debug C++ code on board. May be such a problem connect with absent file  
 ◆ **CMakeLists.txt**

**Electrical engineer** – Self-employed (03.2013 – 10.2017) - 4 yrs 9 mons  
 Electrician, Network Installation Architect, Reconstruction, used Autocad ,etc  
 Architectural draftsman and designer, engineering plans for projects developing

**SmartHome** – Trainee (10.2016 – 02.2017) - 5 mos  
 This project consists of two parts HW/SW. My work in most part consisted of installation changing hardware parts (board switch relay module, on/off switch, temperature sensor, gas detector module, humidity sensor etc.) and I connected them to local network rj45/wifi. The SW (SoftWare) part worked on computer and provided service for remote control HW (HardWare) board relays. I learnt C# language programming on test server.

**Computer First-aid service** – Self-employed (08.2011 – 03.2013) - 1 yr 8 mons  
 Installed SW, installed drivers for devices, recovered DATA, etc.

**Service engineer** – Профи Газ (04.2011 – 07.2011) - 4 mons  
 Find & fix in AUTOGAZ ECU STAG in petrol **ECU** (Electronic Control Unit), driving on gas, **UpGrade, DowdGrade firmware** ECU STAG ([www.ac.com.pl](http://www.ac.com.pl)). (**PCB**) AUTOGAZ ECU STAG principal scheme analytics, find & fix broken cars' wiring , required electronics components purchasing , automotive alternator fix

**Head of the e-commerce site** – e-commerce site E7.com.ua (09.2009 – 04.2011) - 1 yr 8 mons  
 // software testing, Design **UI**, website testing, website promotion, network installation, company server installation on **Windows 2003 Server + Firewall, RDP, HTTP, FTP** services, client computers' installation. Management of a small team: 2 developers (1C, PHP) team supervision, tasks creation, tasks implementation supervision), **Web Hosting**

**Call Center Engineer-operator** - ISC "The State Export-Import Bank of Ukraine" (09.2003 – 08.2009) 6 yrs  
 // operation monitoring, payment systems (Visa, MasterCard) network channels monitoring, clients support

**Senior Sales Manager** – Ronex (04.2000 – 07.2002) - 2 yrs 4 mons  
 Company server installation on Windows 2000 Server + "RAID 1", clients computers installation, 1C accounting installation, mail service installation, Firewall installation, chat service, IBM PC assemblage, LAN network installation, company telephone network installation and automatic telephone exchange programming.

## EDUCATION

// Kyiv National Economic University, Applied statistics, Masters degree diploma M16 #019015 2016  
 // Professional Technical School, 3rd category electrician  
 // Specialized Courses, 1st category radio equipment adjuster

**Languages:** Russian\Ukrainian – native, English – intermediate  
**Driver's license** - category "B"

A lot of more information about my hobby and work you can see my GitHub  
[https://github.com/dotignore/Raspberry/blob/master/differents\\_things/README.md](https://github.com/dotignore/Raspberry/blob/master/differents_things/README.md)