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/debag code), QTCtaretor, CLion, Visual Studio/VSCode, CMakeLists.txt, JSON
Banking Skills:	POS Master POS terminal, OpenWay, 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" – <u>Software Engineer</u>   (10.2017 – Present)
I work with "**INPAS POS Master**" and **OpenWay** 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)

<u>**During last year when I'd free time I was learning C++ on RaspberryPi**</u>
I learn **C++** on embedded device. I 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/debag code C++ on Raspberry Pi.

// I worked installation and configuration QTCreator on Rasbberry Pi Linux create **.sh** file for autoimmunization when it was needed to reinstall software I use **MC** (Midnight Commander)
// I've ran code "**POCO WebServer**" www.pocoproject.org configuration by using **CMake** for **Debag**
// 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 debag code on my desktop
GitHub**:** https://github.com/dotignore/Raspberry/tree/master/Raspberry_Cpp/3_webfiles_cpp/edit_05_Qt%2BDebag_release
// I realy spent a lot of time for tuning **VSCode** Debag mode on Raspberry Pi and couldn't run **JSON** file in this IDE for debag C++ code on board. May be this is problem connect with absent file **CMakeLists.txt**

SmartHome – Trainee C#   (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 learned C# language programming on test server.

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

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