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**IT related experience**

**JSC "The State Export-Import Bank of Ukraine"** - Technical Engineer QA (10.2017 – Present)

**Testing** of **Commerce Applications** for **payment** POS-terminals. In a **test terminal**, I simulate payment actions without in a virtual way by payments terminal I create issue in **Data Base**. If this terminal needs install to point of sale I test the work of this device also, I work with payment and communications of this terminal.

**Front-end testing**: I check user Interface menu in POS-terminals, the printed receipt, testing work payments (NFC, magnet stripe and EMV) and communications (GSM/DHCP) ... etc.

**Back-end testing**: Our external developer send to bank **fix**es for our server. I test this fixes, after that if works wrong work I switch his terminal to **debug mode** and download **log file** with helping **RS232** port. Than, I find errors if I can’t find errors I send this data to developers ... etc.

**Create/Update documentation** for end-users POS-terminals. I use ready **manual test** cases in my work for functional menu and **regression test**. I troubleshoot configuration issues. I integrate the components, new equipment in system and test the work of system. I use the **test tools: OTRS** ([bug tracking tool](https://www.donedone.com/how-it-works/bug-tracking/)). This system works on side our developer server. I use of my work FTP/Shell/SSH/RDP... etc. I provide the **customer support**. Communication solve problems of customers.

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

I learn **С++** 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/debag code C++ on Raspberry Pi.

// I can work 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 can run code “**POCO WebServer**” **www.**[**pocoproject.org**](https://pocoproject.org/) configuration by using **CMake** for **Debag**

// I used remote access to board **Putty ssh** or **FAR commander,** **VNC**, **ftp**

// For сonvenience 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 I couldn’t run **JSON** file in this **IDE** for debag 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

// website testing, 1C software testing, create design **UI** website, website promotion, network installation, company server installation on **Windows 2003 Server** + **Firewall**, **RDP**, **HTTP, FTP** services, client computers’ installation software. Management of a small team: 2 developers team supervision (1C developer and PHP developer), 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, 1С accounting installation, mail service installation, Firewall installation, chat service, IBM PC assemblage, LAN network installation, company telephone network installation and automatic telephone exchange programming.

**TECHNICAL SKILLS**

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

**Operating** MS Windows Server (RDP, FTP, HTTP, HTTPS, POP3, SMTP, Terminal Server etc) Putty

**Systems:** 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**  HTML, C++ (compil/debag code), QTCtaretor, CLion, Visual Studio/VSCode,

**Languages:** 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.”

**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**

**Personal qualities**: Ability to work independently with very little direction/supervision, analytical, self-organizing skills, troubleshooting, responsible, honest, sociable.

**Languages:** Russian\Ukrainian – native, English – Upper-Intermediate

**Driver's license -** category “B”

More information about my hobby and work you can see my GitHub

<https://github.com/dotignore/Raspberry/blob/master/differents_things/README.md>