

# Вячеслав Матюшин

C++, Qt, Linux, MFC

## Местоположение

Проживание: Россия, Брянск

Готовность к работе: готов к переезду

## Возраст и стаж

Стаж: 8 лет и 1 месяц

Возраст: 28 лет

## Контактная информация

Мой круг: <https://moikrug.ru/vyacheslav-matyushin>



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## Профессиональные навыки

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C++ • Linux • Qt • Qml

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## Опыт работы

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Январь 2014 –  
Август 2019  
(5 лет и 8 месяцев)

### ООО "Миатек"

Инженер-программист  
Россия, Брянск

Август 2011 –  
Январь 2014  
(2 года и 6 месяцев)

### RigiSystems

Программист  
Россия, Брянск

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## Высшее образование

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Январь 2007 –  
Январь 2012

### Брянский государственный технический университет

Информационных технологий  
Россия, Брянск

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## О себе

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Summary:

- \* Software engineer with emphasis on C and C++ (desktop and embedded software);
- \* Extensive usage of Qt and QML for cross-platform development (Windows, Linux, MSVC, GNU toolchain);
- \* Experience with Linux both as user and developer (x86 and ARM);
- \* Experience with writing drivers for NetBSD and Mac OS X;

Experience:

Software Engineer  
January 2014 to present

MIATech LLC

\* Oil/gas drilling telemetry receiver:

Drilling telemetry hardware + field operator display (embedded Linux, Qt/QML) + PC software (Windows, Qt);

Ported from Qt 4 to Qt 5;

Rewrote PC software from scratch using modular architecture;

Implemented network discovery;

Implemented support for new telemetry devices (depth gauge, radio acoustic channels);

Implemented recording of the operator calls (using OPUS codec);

Implemented remote client for PC software;

Technologies used: Linux, ARM, Bash, C++, Qt (network, serial ports, SQL, QML), MSVC, git.

\* Freight tracker device (GPS, SigFox):

Implemented communication protocol and PC utility to display device sensor measurements and diagnostic data;

Technologies used: C++, Qt, USB-COM, git.

\* GPS tracking device with GSM functionality:

Implemented several firmware subsystems (audio, calls, SMS);

Technologies used: embedded C++, OpenAT, git.

\* Motorcycle firmware:

Implemented various parts of the motorcycle user interface;

Technologies used: Linux, C++, Qt, QML, git.

\* Oil/gas pipe explosion extinguisher:

Implemented embedded firmware features;

Implemented features for PC diagnostic software - reading device diagnostic data, sensor measurements, device parameters, logs;

Rewrote the PC software from scratch using MFC Ribbon UI;

Technologies used: IAR 8051, embedded C++, Visual C++, MFC, git, Python (helper scripts).

Software Engineer

August 2011 to January 2014

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\* Mac OS X kernel driver (kext) for the variety of professional USB audio interfaces:

Implemented audio streaming with low latency;

Implemented DSD support;

Added new features to control panel and other user space tools;

Vendor customization;

Technologies used: CoreAudio, Embedded C++, IOKit, Objective-C for Mac OS X, Xcode, svn.

\* Electrohydraulic valve actuator firmware:

Implemented valve actuator user interface views;

Technologies used: Visual C++, IAR, svn.

\* In-Car digital radio:

Prepared Android firmware with driver customizations;

Implemented Android application (internet radio playback, hardware radio playback);

Technologies used: Android, Linux, Java, NDK, C++.

Personal projects:

\* Implemented a driver for BCM5906M Ethernet adapter for Mac OS X (ported from FreeBSD).

<https://github.com/vmatyushin/osx-bcm5906m>

Google Summer of Code:

\* Google Summer of Code 2011 (NetBSD):

Successfully completed and implemented a library for creating pseudo-device drivers in user space.

[http://netbsd-soc.sourceforge.net/projects/puffs\\_libpud/](http://netbsd-soc.sourceforge.net/projects/puffs_libpud/)

Technologies used: C, NetBSD, CVS.

\* Google Summer of Code 2012 (NetBSD):

Successfully completed and implemented H-Tree directory indexing in Ext3 file system driver for NetBSD

<https://github.com/vmatyushin/netbsd-ext3-htree/>

Technologies used: C, Linux, NetBSD, Ext3, git.

\* Google Summer of Code 2015 (KDE):

Successfully completed, ported KSystemLog to KF5 and implemented journald support.

[https://community.kde.org/GSoC/2015/StatusReports#Vyacheslav\\_Matyushin](https://community.kde.org/GSoC/2015/StatusReports#Vyacheslav_Matyushin)

<http://vyacheslav-matyushin.blogspot.com/2015/08/gsoc-2015-add-journald-support-to.html>

<https://cgkit.kde.org/kssystemlog.git/?h=gsoc2015>

Technologies used: KDE, Qt 4, Qt 5, Linux, systemd, gcc, C++.

Education:

\* Graduated from Bryansk State Technical University (BSTU), 2012, as a specialist.

\* Graduated from post graduate school in 2016 at the same faculty.

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