

# Victor Vorobev

System Software Developer

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## Work experience

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### System Software Developer

Dec 2018 - Present

#### [Emlid](#)

Backend development for embedded devices. Mostly Python (Flask), bash scripts, Redis. Creating Systemd services. Setup simple CI pipelines using Travis and GitHub actions. Design and implementation of REST and SocketIO APIs.

What I'm proud of:

- Started process of writing tests for the codebase
- Started process of writing documentation for API of the codebase
- Hunted down and fixed several memory leaks and CPU hungry processes
- Implemented several features that required several thousands lines of changed code

Some buzzwords: Python, Linux, Systemd, Redis, Flask, Bash, Git, GitHub

### Developer

Jun 2015 - Dec 2018

#### [Russian State Scientific Center for Robotics and Technical Cybernetics](#)

- Designed shield for Raspberry Pi, which is designed to create simple robots (small batch of 10 samples) and Python 3 module to control it. The shield is designed to control 16 channels of PWM signal, power up Raspberry Pi with battery and measure current and voltage of the battery by ADC. Also, shield allows the user to connect LCD by the I2C interface.
- Developed Timer - Python 3 application for Linux (Raspbian, Ubuntu), which was used later in the contest "RTC Cup".
- Developed Python 3 module using C++, which allows getting data from flight controller Naza M v2 through CAN interface (It's open source now: <https://github.com/victorvorobev/NazaCanDecoder>).
- Developed and programmed several robotic platforms for rough terrain, and some educational platforms.

### Engineer

Sep 2016 - Jun 2018

#### [ITMO University](#)

Took part in the development team of a mobile robotic platform designed for remote inspection of industrial premises. Engaged in the development of a controller for BLDC motors. The task included obtaining data from encoders, and PID speed control based on them.

## Education

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### Master's Degree

2016 - 2018

#### [ITMO University, Saint-Petersburg, Russia](#)

- Faculty of Control Systems and Robotics. Degree program of Digital control in modern technics
- Diploma with Honors, GPA 4.8 of 5

### Bachelor's Degree

2012 - 2016

#### [ITMO University, Saint-Petersburg, Russia](#)

Faculty of Control Systems and Robotics. Degree program of Control in technical systems

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