Vladimir Yu. Ivanov

 \bullet +7·924·320·09·34 \bullet \blacksquare job@vova-ivanov.info \bullet \bullet github.com/vyivanov Software (ML) Engineer

SUMMARY

- Proficient engineer with focus on 3 domains. Computer Science, Electrical Engineering, Machine Learning.
- Built practical experience in 3 areas. Consumer Electronics, Industrial IoT and Robotics, Self-Driving Technology.
- Helped to solve SW and HW problems for 4 types of companies. Outsource, Startup, Private, Public.

SKILLS

EXPERIENCE

Kaspersky, Aprotech – aprotech.ru

Lead Software Engineer

2022 – present Moscow, RU

· TBD

Yandex, Self-Driving Group – sdg.yandex.com

Software Engineer

2019 - 2021

 ${\bf Moscow,\ RU}$

- $\cdot \ \, \text{Integrated orientation (IMU) and localization (RTK) device into electrical and network rover infrastructure (GeoHub).}$
- · Implemented 2 features for GeoHub: power rails monitor (ADC driver, ROS node), programmatic config for IMU frame.
- · Ported rootfs switcher from amd64 (PC) to arm64 (Jetson AGX Xavier). Covered 2 scenarios: Yandex.Rover, Xavier farm.
- · Camera pipeline. Reduced logging size via ring buffer. Implemented 9 new status monitors and camera frames filter.
- · Configured CI (TeamCity) for 2 third-party libs (ser2net, rtklib). Artifacts: deb packets (armhf, arm64, amd64).

Arrival Robotics - arrival.com

2017 - 2019

Lead Software Engineer

St. Petersburg, RU

- · Launched programmatic control for 4 industrial robot manipulators. Vendors: Kuka, Fanuc, ABB, Universal Robots.
- · Contributed 1 feature to robotic simulator (Gazebo): control of scene objects via keyboard (moving, rotation).
- · Implemented SW (REST) for robotic tool controller. Launched 3 kinds of tools: jaw gripper, glue gun, tool changer.
- · Helped to prepare 2 demo days for investors at local lab (St. Petersburg, RU) and at robotic factory (Banbury, UK).
- · Tech interview holding. Reviewed more than 10 candidates: embedded SW engineers, HW engineers, QA engineers.

Rhonda Software - rhondasoftware.com

2012 - 2017

Software Engineer I, II, III

Vladivostok, RU

- · Supported Camera-SDK (proprietary) components. Linux and RTOS device drivers. Firmware burning tool (Qt).
- · Implemented raw data transceiver lib. Cross-platform: Windows, Linux, RTOS, multi-protocol: USB, UART, TCP.
- · Performed products bring-up (EVT, DVT) in electronics plants for 5 customers: Nanit, Fusar, Glide, Revl, Soloshot.
- · Supported SW of photo cameras. Drivers: CCD/CMOS, BSP, NAND, DRAM, LCD. Firmware burning tool (WinForms).
- · Resolved a number of MP-blocking SW issues for 6 camera brands: Nikon, Pentax, Fujifilm, Samsung, Garmin, Ability.

Spider Pacific

2010 - 2012

Electrical Engineer

Vladivostok, RU

- · Designed HW of 4 device prototypes via end-to-end process: schematic (Eagle CAD), firmware (C99), PCBA.
- · Utilized MCU (AVR), text LCD, accel-gyro sensors, vacuum tubes, op-amps, domain-specific IC and more.

EDUCATION

National University of Science and Technology «MISIS» (en.misis.ru)

Institute of Information Technology and Computer Science $\,$

M.Sc. Machine Learning. GPA: 4.7 out of 5.0

Far Eastern State University (dvfu.ru/en)

Institute of Physics and Information Technology

B.Sc. Electrical Engineering. GPA: 4.5 out of 5.0

2020 - present Moscow, RU

2005 - 2010

Vladivostok, RU