Ivan Kharitonov

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I am interested in automotive and robotics areas and looking for a challenging software developer position in the self-driving industry and expand my knowledge and skills in control problems.

Education

2008 - 2014

MS + BS (electrical engineering) at Bauman Moscow State Technical University

2016

Data Mining in Action course (open ML course at MIPT)

2017 - 2019

Additional education at Yandex School of Data Analysis - Computer Science program

Professional Experience

Feb 2019 – Jun 2019 Yandex DA school

TEACHING ASSISTANT FOR THE COURSE PRACTICAL RL Provided help and read seminars with hw checkups in HSE and YSDA

Jul 2015 - Nov 2017

FSUE NAMI

Central Scientific Research

> Automotive Institute -

Information and Intelligent Systems Center RESEARCH ENGINEER AT SELF-DRIVING DEPARTMENT (SHUTTLE PROJECT)

• Implemented perception models for object detection task – collecting/generating training data, optimizing the model design, model implementation (Caffe DL framework) and evaluation.

SOFTWARE DEVELOPER (CONTROL SYSTEMS) AT TRANSMISSION CONTROL SYSTEMS DEPARTMENT (Aurus Project)

- System identification created plant models for some vehicle mechanism, such that gearbox clutch hydraulic actuator.
- o Implemented basic software layer for automotive microcontroller (C, Simulink, Altium Designer) from scratch.
- o Designed and implemented a controller for hydraulic actuators with further improving quality metrics and decreasing system setting time.
- o Decreased calibration time by developing automated calibration procedure of control system parameters and tested control algorithms on the testbench.

Mar 2013 - Aug 2015**BMSTU**

> Bauman Moscow State Technical University

HARDWARE AND TELEMETRY ENGINEER ON AN FSAE TEAM. Participated in international engineering competition FSAE as a member of the university racing team. Responsibilities: hardware and software development, sponsorship and partnership management. Achievements:

- o Released projects: MS thesis using RTK navigation for telemetry, F1-like steering wheel with integrated LCD, wireless telemetry module, signals expansion module by reverse-engineering the race ECU CANbus protocol.
- o Received positive feedback from judges on the design event with good score.
- Established sponsorship contracts with several companies. As a result, we were granted new equipment.

Feb 2012 - Jul 2013

Crypto LLC

ENGINEER AT SYSTEM INTEGRATION DEPARTMENT.

Systems integrator

- Adapted the product to the customer by adding fault tolerance setup.
- o Integrated the monitoring tool (Zabbix) with a data management system.

May 2009 - Feb 2012

PJSC VimpelCom

TEST ENGINEER. The Vimpelcom's pilot project - TV provider for mobile phones.

• Monitoring of the head and base stations (DVB-H) and 2nd level technical support.

Skills

Programming Other software

C, C++, Python, Simulink, MATLAB.

Vector software, Altium Designer, Solidworks, LabView

Languages

Russian - Native, English - B2

Other

Recent Activities
Other interests

organized reading club about robotics and self-driving at the BMSTU formula student group road bicycle racing, motorsport