

Ivan Kharitonov

Moscow

ipkharitonov@gmail.com

+7(916)785-71-11

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) <ul style="list-style-type: none">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) <ul style="list-style-type: none">System identification – created plant models for some vehicle mechanism, such that gearbox clutch hydraulic actuator.Implemented basic software layer for automotive microcontroller (C, Simulink, Altium Designer) from scratch.Designed and implemented a controller for hydraulic actuators with further improving quality metrics and decreasing system setting time.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: <ul style="list-style-type: none">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.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 Systems integrator	ENGINEER AT SYSTEM INTEGRATION DEPARTMENT. <ul style="list-style-type: none">Adapted the product to the customer by adding fault tolerance setup.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. <ul style="list-style-type: none">Monitoring of the head and base stations (DVB-H) and 2nd level technical support.

Skills

Programming	C, C++, Python, Simulink, MATLAB.
Other software	Vector software, Altium Designer, Solidworks, LabView
Languages	Russian – Native, English – B2

Other

Recent Activities	organized reading club about robotics and self-driving, FSAE AI judging
Other interests	road bicycle racing, motorsport