

CURRICULUM VITAE

MIKHAIL GOZHEV

Nationality: Russian
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RESEARCH INTERESTS

My primary interest is to make quality real-time systems tightly coupled with hardware.

There are possible specializations:

Robotics in general and Autonomous Legged/Wheeled/Flying Robots specifically
Computer Vision in general and SLAM methods specifically
Industrial Automation
Embedded software
Augmented Reality and Computer Graphics
Video and Image Processing

EDUCATION

2010 – 2014, 2016 – 2018: 6 years Specialist Programme in Mathematics,
Department of Mechanics and Mathematics, Lomonosov Moscow State University, Moscow, Russia

Diploma thesis: Navigation in constrained environments using indoor positioning systems

Research and development of C program to integrate data from inertial sensor; research and development of real-time C/C++ program to detect objects in dynamic video sequences (using OpenCV, CUDA and other third-party libraries); research and development of C++ program to find and visualize optimal paths in 3D space using existing SLAM open source systems based on monocular visual odometry.

2005 - 2010: Physics and mathematics school, Moscow, Russia

WORK EXPERIENCE

2016 - 2018: Software Developer, RTSoft, Russia

Research and development of software for real-time image recognition using general purpose graphics processing unit (GPGPU). Development of software for augmented reality applications.

Development of OpenGL/OpenCV-based real-time multithreaded software for a show case (an interactive automobile cockpit) for CES2018. Work in team of ~10 software engineers/architects.

Development of board support packages for ARM devices based on GNU/Linux and U-Boot/Busybox/Linux compositions. Development of firmware for microcontroller-based devices.

LANGUAGE SKILLS

Russian: native

English: intermediate (technical reading: very good, technical listening: good, technical writing: good, oral social communications/other: not so good, oral American english: notably bad)

COMPUTER SKILLS

Programming languages: C: native, C++: intermediate, C++1x: beginner

Strong knowledge of GNU Make

Scripting languages: GNU bash, minor experience in php and perl5

Experience in computing libraries/APIs: OpenCV, CUDA, OpenGL and others

Experience in microcontrollers: Atmel AVR, Microchip PIC

Preferred OS: GNU/Linux

Office applications: LaTeX and others