



Max Gusev

+375-296-167-504 · computer.vision1@outlook.com

<https://www.linkedin.com/in/maxim-gusev1>

<https://github.com/GusevPortfolio>

Minks, Belarus (visa sponsorship)

ROBOTICS PERCEPTION DEVELOPER

Robot Developer with specialization in autonomous vehicles. 10+ years of experience in research & development in total, and 4+ years in autonomous vehicle/robotics/embedded development. My products successfully work in France, Germany, Turkey, the UAE, Belarus, Russia, Nepal, Rwanda.

European (ATU Sligo, Ireland) master's degree for Autonomous and Connected Vehicles allows me to bring together interdisciplinary automotive and IT concepts such as computer vision, machine learning, vehicle dynamics and advanced sensor systems.

HARD SKILLS

Programming: Python / C++, MatLab, Linux;

Computer Vision: OpenCV, multiple view geometry computer vision;

Machine Learning: sklearn, pandas, NumPy, Matplotlib, Keras, PyTorch;

Robot Development Frameworks: ROS / ROS2, Ardupilot;

Sensor Fusion: Radar, LiDAR & Camera;

Simulation: Simulink, IPG Carmaker, Gazebo;

Software Development Life Cycle: ISO 26262, ASPICE;

Risk Management: FTA, FMEA, triggers list;

Project Management: Agile, Waterfall, Hybrid;

IATF & VDA tools: APQP, FMEA, SPC, MSA, PPAP;

Financial Modeling: EVM, budget estimation of high-tech products, P&L;

PROFESSIONAL EXPERIENCE

United Vehicle Robotics / www.uvr.inc

Dec 2022 - Present

Robotics Perception Developer

Developing the heavy lift unmanned aerial systems (UAS) and complexes (UAC) for cargo transportation.

United Vehicle Robotics operates in a full cycle: from R&D and design to mass production, from manufacture of air frame details and development of control systems to integration of all the components within a single unmanned aerial system.

Personal accomplishment:

- Developed the visual odometer for the UAS (drone small helicopters);
- Implemented the SLAM algorithm for the UAC (unmanned helicopter);
- Deployed semantic segmentation for the computer vision;

UST inc. / www.ust.inc

Sep 2019 - Present

Chief Project Officer

International OEM for the development and realization of Cooperative Intelligent Transport Systems (C-ITS) with full cycle of R&D, testing, deployment and certification.

Personal accomplishment:

- Compiled five product lines from 100+ semi-ready prototypes;
- Validated functional safety requirements with RTA (Dubai Ministry of Transport);
- Slashed off prime cost -7% for a vehicle and -14% for a sub-system;
- Supervised TÜV certification of the first complex in the UAE;
- Sharpened localization to 0.02 m by landmark detection (GNSS/INS + Camera);

DAIMLER Trucks RUS / www.mercedes-benz-trucks.com

Mar 2017 - Sep 2019

Senior Product Manager

Headed a Cross-Functional Team for localization parts of cabins for Mercedes-Benz MP4. Unique program for MB with two OEMs: Mercedes-Benz & KAMAZ. €60,000,000 total budget / 30-month duration.

KAPITAL Group LLC

Jan 2016 - Mar 2017

Project Quality Manager

Assured high-precision production of details for high-speed train brake systems by 5-axis CNC machines within the quality department.

Ecopol Vladimir LLC

Oct 2014 - Jan 2016

Quality Manager

Managed 12 employees to improve and maintain the overall efficiency of the company and launched a new production line that contained injection molding, heat-insulating foaming, and assembly;

Plastic Omnium RUS

Dec 2012 - Oct 2014

R&D Engineer

Maintenance and testing of production line, execution of root cause analysis, development of corrective actions (CAPA). Collaborated with the department's improvements team (SMED, SFM, Kanban, and Kaizen). Participated in the new line launch for Nissan and Renault (Dacia) projects.

EDUCATION

Atlantic Technological University (Sligo, Ireland)

Master of Engineering for Autonomous and Connected Vehicles

Project Management Institute (Pennsylvania, USA)

Project Management Professional (PMP)

Portfolio Management Professional (PfMP)

Vladimir State University (Vladimir, Russia)

Bachelor of Engineering for Automotive Engineering

TRAINING

NVIDIA / AFFECTIVA

Computer Vision Expert (15 weeks)

KUKA (udemy)

Robotis Engineering (16 weeks)

DevSchool • Progressive Training Solutions

Python 3: Junior to Senior

RECOMMENDATIONS

John Popel / member of USA Forbes Business Development

"One of the best engineering project management executives I've worked with"

Jan Wall / President of Kathmandu Podway LTD

"Working in third world countries can be stressful. Max, however, acclimated himself to his new environment and showed the ability to work in any country and be effective as soon as his feet hit the ground."