

# Anton Ganichev

## Senior Computer Vision / Generative AI Engineer

gan4x4@gmail.com | +7 (901) 519-47-89 | gan4x4.ru | English B2 | Remote / contract

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### SUMMARY

Senior Computer Vision / Generative AI Engineer with 26+ years in software development. Combines hands-on CV / GenAI engineering, corporate R&D, university research, and practical deployment across controllable generation, video analytics, multimodal evaluation, and production-oriented prototyping.

### CORE SKILLS

**Python, PyTorch, OpenCV, Linux, Git, Docker, ONNX, TensorRT, Transformers, Diffusers, REST/gRPC, PHP/Laravel, MySQL.** Focus: detection and tracking, controllable image / video generation, inpainting, inversion, LoRA, open-vocabulary / multimodal model evaluation, experiment design, reproducible baselines, and deployment.

### SELECTED EXPERIENCE

#### HSE University / MIEM | 2019–present

*Analyst / Expert Consultant / Senior Lecturer*

- MIEM (2025–present): led a small applied AI team and evaluated controllable video-generation methods for inpainting workflows.
- MIEM project work (2022–2024): led student teams delivering applied computer-vision prototypes, including weapon detection and 3D human avatar pipelines.
- HSE seminar (2019–present): runs the research seminar *Computer Vision Technology* with hands-on labs in detection, tracking, segmentation, generative vision, and deployment.

#### Samsung Research Russia | 2024–2025

*Consultant*

- Contributed to applied AI and generative modeling in a corporate R&D center; worked on spatial conditioning, editing / inpainting, inference-time optimization, and domain-adaptation workflows.

#### Lomonosov Moscow State University | 2020–2024

*Lecturer, Faculty of Physics*

- Designed and taught a graduate course on neural networks for scientific research; created PyTorch-based notebooks and assignments.
- Advised graduate students on machine learning research: problem formulation, baselines, implementation, and evaluation.

#### Parus | 2020

*Computer Vision Software Engineer*

- Developed computer-vision models and prepared them for production deployment with Docker and ONNX.

### SELECTED PRACTICAL PROJECT

#### FindMyBike anti-theft service | 2018–2020

*Technical co-founder*

- Built a real-time bicycle detection and recognition pipeline from surveillance video using GPU servers.
- Developed the tracking web service, API server, and data-labeling / dataset pipeline; optimized models for faster execution.
- The system was tested in the Moscow city video-surveillance system in 2019.

### PUBLICATION & EDUCATION

**Heat Transfer Research, 2025.** *Complete characterization of axisymmetric turbulent jet using background oriented schlieren and physics-informed neural network.* Coauthor; work connected to MSU graduate research support.

**M.Sc. in Computer Science / Automated Information & Control Systems, MATI, 2000**

Portfolio and project evidence: [gan4x4.ru/experience](https://gan4x4.ru/experience) | [gan4x4.ru/projects](https://gan4x4.ru/projects)