

Konstantin Kozhemiakov

Curriculum Vitae

Moscow, Russia
☎ +7 (905) 714-48-55
✉ kostonz@yandex.ru

Education

2016 – present **Bachelor Student**, *Lomonosov MSU, Faculty of Computational Mathematics and Cybernetics, Laboratory of Computer Graphics & Multimedia*, Moscow, Russia, GPA: 4.76.

Relevant courses:

- o Computer Vision
- o Probability theory
- o Video Processing
- o Discrete mathematics
- o Calculus
- o Operating systems
- o Object-Oriented Programming
- o Algorithms & Algorithmic Languages
- o Mathematical statistics
- o Data Compression
- o Linear algebra
- o Complex analysis
- o Computer networks

Technical Skills

Programming Languages C, C++, Python, NASM

Applications Git, CMake, Jupyter Notebooks

Frameworks and libraries OpenCV, NumPy, TensorFlow, Keras, SciPy, Matplotlib, OpenMP, OpenGL

Languages Russian, English (Intermediate)

Projects

2019 **OpenGL Raymarching sample.**

Experience in OpenGL: developed a scene with some primitives using Raymarching algorithm and Phong local shade model

2018 – **VR Motion Sickness Assessment.**

present Developing a method for automatic motion sickness assessment in stereo videos in virtual reality

2018 – **VR180 Projection tool.**

present Developing a projection tool (equirectangular – cubemap) for MSU VQMT3D Project for auto VR180 processing and artefact detection

2018 – **Co-author and moderator of popular-science articles.**

present 3 articles on Russian: Future of VR180, Super Resolution, Light-field cameras

2018 **Depth Map Estimator.**

Developed a plugin for VirtualDub for depth estimation in a mono video with plane parallel motion
<https://github.com/djowanni1/depth-map-estimator>

2017 **File Archiver.**

Developed an universal file archiver based on the arithmetic coding and PPM methods on C/C++
<https://gitlab.com/djowanni1/compressor>

Additional awards

2016 Scored 497/500 points for the exams at university entry

2016 Prize-winner of the three first-level Olympiads from <http://rsr-olymp.ru> (numbers 41, 15 - Math, 46 - Physics)

- 2016 Prize-winner of the three second-level Olympiads from <http://rsr-olymp.ru> (numbers 4, 31, 46 - Math)
- 2015, 2016 Prize-winner of the Regional stage of the All-Russian Math and Physics Olympiad
- 2015 Participant in math tournament "XIX Kolmogorov's memory cup", Sochi, Russia

Interests

- o Computer Vision
- o Video Processing
- o Machine Learning
- o Analytics