



Andrey Yershov

Current interests: Computer Vision, Machine Learning for image processing and biophotonics.

Jena, Germany

[github: androbaza](#)

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EDUCATION

Friedrich Schiller University, Jena, Germany M.Sc. Photonics at Abbe School of Photonics

October 2021 – Current

- Average grade: 1.8.
- DAAD Master scholarship.

Nazarbayev University, Kazakhstan 🇰🇵 B.Sc. Robotics and Mechatronics

August 2016 – June 2021

- cGPA 3.55/4.0.
- Dean's list, Spring 2019.
- Nazarbayev University educational scholarship.

WORK EXPERIENCE

Research Assistant at Nazarbayev University

May 2019 – September 2021

Applied ML for **computer vision** project with Prof. Sandygulova. Improved accuracy up to 97% for **action recognition, age and gender estimation** model using PyTorch programming.

Worked on building a **reinforcement learning** setup with Dr. Kappassov. Applied SolidWorks CAD and Ultimaker 3D printing of the components.

Technical Manager at Eduvation.kz

September 2019 – October 2020

Managed technical issues at Educational Tech startup for online delivery of education. Maintained Mac OS/PC, network routers, media equipment.

Sys. Administrator at Bilim-Innovation lyceum

October 2015 – May 2016

Maintained and troubleshoot teachers' computers and office equipment.

Freelance electronics repair and maintenance

May 2014 – August 2016

Repaired laptops, mobile phones, audio/video electronic equipment.

SKILLS

- **Python** (PyTorch, OpenCV).
- **C, C++**, ROS coding (Gazebo, RVIZ, OpenAI gym, NAO robot).
- **MATLAB**, ImageJ (Simulink, Image Processing).
- **Computer hardw.** architecture, Ubuntu/Linux (bash, git, VM).
- **FPGA**, Arduino (microcontrol.)
- **CAD** (Solidworks, Fusion 360).
- **3D printing** (Cura, Ultimaker).

CERTIFICATIONS

- IELTS 8.0
- “Retail Big Data” Hackathon winner – *Magnum C&C* (2021)
- Machine Learning School – *Innopolis* (2020)
- Machine Learning w/ TF Spec – *Coursera* (2020)
- Software Engineering School *QWANT* – Nur-Sultan (2020)
- *FAA* sUAS Pilot (2020)
- *Microsoft* Comp. Netw. (2019)
- *Cisco* Cert. Technician (2016)

LANGUAGES

- English – C1
- German – B1
- Turkish – B1
- Kazakh – C1
- Mandarin – A1