



Emil Akhmadeev

AI Tester and certified QA Engineer in Machine Learning team with strong Python skills and engineering background, including CAD application, mechanical engineering, reverse engineering, industrial CT application.

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EXPERIENCE

QA Specialist — Volume Graphics GmbH

Volume Graphics develops leading analysis and visualization software for industrial CT data.

July 2022—Present

- Designed and implemented automated tests for Machine Learning Team;
- Performed manual tests, including exploratory, usability, user acceptance testing for deep learning, reverse engineering and CAD modules;
- Performed deep learning experiments in Python, e.g. anomaly detection;
- Defined high-level end-to-end automated tests for ML products using Azure pipeline;
- Prepared and labeled data for deep learning;
- Worked jointly with stakeholders and provided technical expertise.

Technical Solutions Expert — Volume Graphics GmbH

April 2019—July 2022

- Performed manual tests, including exploratory, usability, user acceptance testing for reverse engineering and CAD modules;
- Provided CAD and reverse engineering expertise to colleagues;
- Provided technical support to customers and colleagues.

Lead Engineer — Center of Digital Technologies JSC

Hi-tech engineering center, providing services like casting engineering, reverse engineering, additive manufacturing, metrology measurements and NDT (computed tomography and optical 3D scanning) for aerospace and automotive industry.

October 2015—March 2019

- Mastered CT application, 3D scanning and industrial additive manufacturing;
- Established CT scanning and additive manufacturing processes in the company;
- Trained new colleagues;
- Led reverse engineering projects;
- Reverse-engineered parts based on CT data, 3D scans or old drawings.

Design Engineer — Vysota LLC

Development and manufacturing of aircraft rescue equipment for evacuation and emergency medical care and field support equipment for aircrafts.

August 2011—November 2015

- Developed and tested rescue and support equipment for aircrafts;
- Led the design and development process from scratch of the rescue elevator for injured;
- Created CAD models, assemblies and documentation.

Design Engineer — Tupolev JSC

December 2009—August 2011

- Participated in the reverse-engineering project of the aircraft systems;
- Reverse-engineered parts based on old drawings;
- Worked jointly with the manufacturing department.

SKILLS

Python / OOP
 Unit Testing / Pytest
 TDD / BDD / Pytest-BDD
 Machine Learning
 Computer Vision
 Git / GitHub
 Quality Assurance
 Test Automation
 Manual Testing
 Exploratory Testing
 User Acceptance Testing
 Usability Testing
 Agile / Scrum
 UX / UI
 Prompt Engineering
 HTML / CSS / Bootstrap
 3D Modeling
 Reverse Engineering
 Design Engineering
 CT Application
 GD&T
 Technical Support
 Customer Satisfaction

TOOLS

VGSTUDIO MAX
 Squish
 VS Code
 Jupyter
 Microsoft Office
 Microsoft Azure
 Jira
 Confluence
 Siemens NX
 Siemens Solid Edge
 Autodesk Fusion 360
 Autodesk Inventor

EDUCATION

Master of Engineering and Technology, Air- and Rocketcraft — Kazan National Research Technical University named after A.N. Tupolev

September 2015—July 2011

CERTIFICATION



ISTQB® Certified Tester Foundation Level (CTFL) 4.0 — GASQ

December 2024



Python Automation Testing with Pytest — Udemy

June 2024



Introduction to OpenAI API & ChatGPT API for Developers — Udemy

March 2024



Machine Learning Specialization — Coursera

February 2023



Design for Additive Manufacturing — Gen3D

December 2021



Become a UX Designer from Scratch — The Interaction Design Foundation

March 2021



Human-Computer Interaction - HCI — The Interaction Design Foundation

February 2021



Design Thinking: The Beginner's Guide — The Interaction Design Foundation

February 2021



User Experience: The Beginner's Guide — The Interaction Design Foundation

December 2020



Basics of Interchangeability — ITMO University

December 2018



ATOS III Triple Scan XL — National Institute for Aviation Technologies

January 2016



Technical/Operational Customer Training S-Max Furan System — ExOne

December 2015



Minifocus Xray System V|TOME|X C450 — Ostec

December 2015



Siemens NX10 Modelling. Extended Course — PLM Ural

November 2015

LANGUAGES

English

German

Russian

HOBBIES

Coding

Archery