Vladyslav Los

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Work experience

MCQST Summer Bachelor Program	**Technical University of Munich**
• Using Pennylane to optimize variational quantum circuits	Aug 2022 – Aug 2022
• Single-qubit gate optimization with gradient descent methods	
Undergraduate Research Assistant	**Institute for Quantum Computing**
• Optimal control techniques of superconducting qudits	May 2022 – July 2022
• Analytical and numerical analysis of multi-level transmon driving	
Student Assistant	**QAR-Lab at LMU Munich**
• Quantum Reinforcement Learning	Nov 2021 - now
• Optimization algorithms	
Mitacs Globalink Research Intern	**University of Waterloo**
• Analytical and numerical research of control strategies for qudits	May 2021 – Aug 2021
• Search for qudit control approaches with low leakages and high fidelity	
Student Assistant	**RWTH Aachen**
• Tutoring of 1st semester students in mechanics	Nov 2020 – Jul 2021
• Supervision of the discord channel of the study course	
Scientific Assistant	**Fraunhofer IPT Aachen**
• Development of plug-ins for CAD Software in C#	Jun 2020 – Jun 2021
• Process simulation of high-performance machining	
Software Developer (student job)	**ARC Aachen**
• Development of an airport simulation software in Delphi	Dec 2019 – May 2020
• GUI and compatibility	

Education

Physics (Quantum Technology) M.Sc.	**RWTH Aachen**
• Emphasis on Condensed Matter Physics	2022 – now
Physics B.Sc.	**RWTH Aachen**
• Thesis: Optimal control of qudits implemented with superconducting multi-level systems (Grade – 1.0)	2019 – 2022

GPA: 1.7 (German)

Experience and Competitions

Ukrainian Physics Olympiad	**Young Physicists Tournament**
• 1st Place, 2016	• 2nd Place, 2018
• 2nd Place, 2017	• 3rd Place, 2017
• 3rd Place, 2018	More than 20 teams from all over Ukraine
Up to 50 Participants from all over Ukraine	

Engagement

Skills

Engagement	Skills
BridgeEurope Online	**Computer Science:**
• Non-partisan organization promoting civil political dialogue	C#, Python ●
• Podcast and blog creator	PennyLane, Qiskit ●
	Tensorflow, PyTorch●
Youth organisation "Leidenfrost Stars" (until 2018)	**Foreign Languages:**
• Stands with physical experiments in science fair in Kyiv	German ●
• Optics, wave mechanics and gravity explained to over 3000 people	English ●
	Russian ●
	Polish ●
Leo Club Karlsruhe (until 2019)	**Soft Skills:**
• Food donation actions in supermarkets	Solution-oriented work ●
• Fair for children from socially weak families	Problem Solving ●
	Time-management ●