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EDUCATION

Kazakh-British Technical University (KBTU) – Almaty, Kazakhstan

Expected May 2026

School of Information Technologies and Engineering - Bachelor of Engineering

GPA: 3.33/4.00

Concentrations: Electronics and Mechatronics, Automation and Control, Robotics

Relevant Coursework: Algorithms and Data Structures, Foundations of Electrical Engineering, Electronics and Digital Design, Theory of Linear and Non-Linear Control Systems, Autonomous Mobile Robots, Industrial Robot Operations, Robotics in Manufacturing, Introduction to Machine Learning

Secondary General Educational Institution #54 - Dushanbe, Tajikistan

September 2011 - May 2022

▪ **GPA: 4.96/5.00**

PROFESSIONAL EXPERIENCE

AlmaValley – Borealis Laboratory

- Recorded Raspberry Pi tutorials for the **Uni-X platform** to support educational initiatives.
- Completed impactful projects, including:
 - **Semi-Autonomous Water Drone for Trash Collection with Computer Vision**: Designed and implemented an environmentally focused drone using Raspberry Pi and RealSense D435i.
 - **Unitree Go2 Voice Control in Kazakh Language**: Developed a voice-command system using an offline LLM and ROS2 Humble for local language support.

Robotics Research Assistant

- Conducted research on autonomous navigation and manipulators using **ROS**, **C++**, and **Python**.
- Key projects: Implemented **ArUco detection** for robotic arm functionality and enhanced autonomous elevator operations.
- Currently involved in **ongoing research**: "Development of an Automated Maintenance Inspection System in Multi-Floor Residential and Industrial Complexes Using a Mobile-Legged Robot Navigating Through Elevators."

ACTIVITIES AND ACHIEVEMENTS

KazEnergy Eco-Shell Competition (2024): *Recognized for the innovative design and implementation of a Semi-Autonomous Water Drone for trash collection.*

Electrical Engineering Olympiad (2024): Demonstrated excellence in problem-solving and electrical engineering concepts at Satpayev University.

ITFest 2024: Showcased robotics projects, including the **Tic-Tac-Toe Playing Robot**, which engaged many attendees who enjoyed competing against it. Also served as a judge in Robo-Football competition.

Research Paper Contributor: Collaborated on the research paper, "[Development of a Mobile Robot Platform for Smart Warehouse Management System](#)", published in the *Herald of Kazakh-British Technical University*.

SKILLS/INTERESTS

- Programming Languages: Python, C++, MATLAB
- Technical Writing and Reporting: Overleaf, Latex
- Electronics and Hardware skills: Raspberry Pi, ESP32
- Native Tajik speaker; Fluent in Russian and English (IELTS 7.0/9.0)