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GHOLIBJON QASOBOV

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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
Relevant Coursework: Algorithms and Data Structures, Foundations of Electrical Engineering, Electronics and Digital Design, Theory of 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   *June 2024 – now*
- 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   *January 2024 – May 2024*
- 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.

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 and advancements, including serving as a judge in Robo-Football competitions.

Research Paper Contributor: Collaborated on a published research paper 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)