

# ALIKHAN YDYRYSOV



ELECTRONICS ENGINEER

ROBOTICS and IOT ENGINEER

DRONES AND UAV SYSTEMS

IT ADMINISTRATION AND PROGRAMMING

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Dubai Internet City, Dubai, 00000, UAE

Date of birth 29/10/1996

## ABOUT ME

### Full-stack expertise in electronics, IT, robotics, and drones

*As a dynamic Electronics Engineer boasting a robust seven-year tenure at Comp Service, I am on the lookout for fresh challenges that will leverage my expertise in circuit design, PCB layout, microcontroller programming, and signal processing. My proficiency with programming languages such as C/C++, python, alongside practical skills with tools like multimeters, oscilloscopes, and soldering equipment, positions me as a versatile asset in the field. I pride myself on my exceptional problem-solving capabilities, proven project management acumen, and effective communication skills. I am keen to apply my knowledge and enthusiasm to innovative projects and am excited about the prospect of collaborating with a team that shares my passion for excellence in engineering.*

#### LANGUAGES

Russian language 95%

English language 88%

Kyrgyz language 90%

Turkish language 88%

Kazakh language 80%

Uzbek language 55%

**TOTAL OVR: 83.00**

#### PROGRAMMING LANGUAGES AND SOFT TOOLS

Python – automation, IoT, AI integration 89%

C/C++ embedded microcontrollers 92%

Bash&PowerShell, Microsoft Office 99%

WindowsOS, LinuxOS, MacOS 96%

AUTOCAD & 3D MODELING 87%

PCB DESING AND CIRCUIT LAYOUT 88%

**TOTAL OVR: 92.00**

## SKILLS in ELECTRONICS (OVR=96.36)

### Hardware Repair&Maintenance

HDMI, USB, charging port	99%
Computers & Consumer Electronics	99%
Diagnosis and repair of laptops	99%
Soldering	99%
Power circuit repairs	99%
BIOS, SPI/NAND/eMMC	99%

### Medical Equipment Repair & Maintenance:

Repair and maintenance	87%
Sensor, display, and power circuit	96%
Medical safety compliance, calibration	85%
Medical equipment into IT networks	93%

### CCTV & Networking:

Install and config of CCTV	94%
Ethernet and Wi-Fi network	98%
Router, switch, firewall	99%
Working with ELV systems	93%

### PCB Design & Circuit Development:

Schematic capture and Boardviews	99%
Multi-layer PCB layout design	90%
High-frequency circuit routing	91%
Microcontroller circuit integration	95%

## SKILLS IT SOLUTION (OVR=92.44)

Install&config macOS, Windows, Linux	99%
WindowsServer, UbuntuServer,CentOS	83%
Networking & Security	90%
Configuring VPN, firewall security	88%
Diagnosing network issues	96%
optimizing Ethernet, Wi-Fi, VPN	99%
Data encryption, cloud security	88%
backup solutions(AWS,Azure,Google Cloud)	90%
IT support, hardware troubleshooting	99%

## SKILLS IoT & ROBOTICS (91.56)

Raspberry Pi, Arduino and ESP32	94%
Sensor integration	99%
Systems in C/C++, MicroPython	93%
WebSockets, LoRa,Zigbee	80%
Building and programming	90%
Smart Home automation	91%
cloud-based IoT control	83%
Industrial & Smart Systems	94%
Integrating WS2812B LED	99%

## **DRONES AND UAV Systems (OVR=89.25)**

Expert in all DJI drone models	<b>99%</b>
DJI Software & Flight Control DJI GO 4, DJI Fly, DJI Pilot, DJI Assistant 2	<b>93%</b>
Firmware updates, flight performance tuning, sensor calibration	<b>98%</b>
Zenmuse cameras, LiDAR mapping and other cameras system	<b>90%</b>
Drone mapping (DJI Terra, Pix4D, DroneDeploy)	<b>88%</b>
Building custom drones from scratch (frames, motors, ESCs, flight controllers)	<b>93%</b>
Power distribution setup (PM07, BEC modules, LiPo battery management)	<b>96%</b>
Custom drones for autonomous flights and drone light shows	<b>91%</b>
Configuring Pixhawk 6C with PX4 Pro v1.15.4 and Ardupilot firmware	<b>94%</b>
GPS integration (M10 module, Here+ RTK for high-precision positioning)	<b>96%</b>
Telemetry setup with Holybro SiK 433MHz	<b>90%</b>
Sensor calibration (IMU, compass, barometer)	<b>99%</b>
Drone Show System	<b>85%</b>
WS2812B LED integration for aerial light shows	<b>99%</b>
Skybrush software for multi-drone coordination	<b>80%</b>
MAVLink-based autonomous flight programming	<b>81%</b>
Software & Mission Planning	<b>92%</b>
Mission Planner, QGroundControl – UAV flight control	<b>94%</b>
Creating automated drone routes and swarm formations	<b>95%</b>
Real-time telemetry data analysis and diagnostics	<b>86%</b>
ROS, MQTT – IoT and robotics integration	<b>90%</b>

## EDUCATION

*HIGH SCHOOL DIPLOMA BKTL | BISHKEK 2015*

**GPA: 86.50 of 100**

- Honors grad with math/science focus
- Top achiever in advanced STEM courses
- Proven innovator in robotics & electronics
- Skilled in physics & computer science

*STATE GENERAL EXAMS (ORT) – 187 of 236*

*BACHELOR OF TECHNOLOGY INTERNATIONAL ALATOO UNIVERSITY | BISHKEK 2019*

**GPA: 83.76 of 100**

- Expert in Robotics & Electronics
- Advanced in circuit & IoT tech
- Pioneered autonomous drone project
- 3 times Winner in university robotics competitions

*STATE GENERAL EXAMS and THESIS DEFENCE 100 of 100*

## HOBBIES

Chess: *Candidate Master (CM)*, 3<sup>rd</sup> place in Kyrgyzstan 2011, *FIDE rating: 1926*

Football: S (SEBAT) LIGA, Business Liga

PlayStation and Computer Games: FC2025, FIFA2024, GENERAL ZERO HOUR (strategy)

Table Tennis: *1<sup>st</sup> Category*, 4<sup>th</sup> place in Osh City 2012, *rating: 1750*

Rubik's CUBE: 3x3 in 50second (record 28sec), 4x4.....9x9. for collecting same algorithm if you know how to collect 3x3 and 4x4.

## REFERENCE

SHABDANBEK KASYMOV

+996707287204

Professor at "AlaToo" International University

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## WORK EXPERIENCE

**DILAN MIRROR (Mirror of Future)**      **IoT engineer**      **2024, JANUARY-NOVEMBER**

*Part-Time, DUBAI*

Designing the electronic components of the smart mirror, including selecting and integrating cameras. Programming the microcontroller or other control unit to process camera images and display information on the mirror.. Optimizing the operation and functionality of the smart mirror. Repairing and servicing the device as needed. Integrating sensors or other devices if they are also present in the smart mirror. Repairing and servicing the device as needed.

<https://dilan-mirror.com>

**Ahmed Genius IT Company**      **Electronics Engineer**      **2023, DECEMBER-PRESENT**

*Full-Time, DUBAI*

High-tech services in the field of information technology and engineering systems, system security, and modern technologies for both home and business. The process of creating high-quality and innovative audio solutions for homes, business premises and entertainment facilities. A process that includes regular inspections, repairs and technical support of technical devices and systems. Integrated approaches to technology for homes and commercial facilities. Installation and integration of smart home systems, creation of infrastructure for comfort and safety. We offer continuous monitoring and protection for yachts, along with seamless remote access and management capabilities to ensure optimal performance and security at all times.

Professional network infrastructure configuration to ensure reliable and secure operation of your business or home network.

<https://geniusahmed.ae/>

**PRO DRONE COMPMASER BISHKEK**      **Electronics Engineer**      **2020-2024**

*KYRGYZSTAN, BISHKEK*

Development of electronic circuits and devices. Prototyping and testing of components. Working with microcontrollers and microprocessors. Designing and debugging printed circuit boards. Analysis and optimization of existing systems. Working with sensors and detectors. Repair and maintenance of equipment. Compliance with standards and regulations. Preparation of technical documentation. Fixed drone parts for peak function, Customized firmware for drones, Diagnosed & replaced drone parts, Optimized drone flight stability, Repaired DJI/Xiaomi drones, Enhanced drones with firmware, Optimized drones for stability, Developed drone maintenance plans

<https://911.kg/>

KYRGYZSTAN, BISHKEK

Development and design of IoT devices and systems. Configuration and programming of sensors, microcontrollers, and other equipment. Development of control software for IoT devices. Integration of IoT systems with cloud platforms or other information systems. Testing and debugging of IoT solutions. Ensuring security and data protection in IoT systems. Support and maintenance of installed IoT solutions. Researching and implementing new technologies and methods in the field of IoT

<https://kundoluk.kg/>

### **Awards:**

2nd place winner Diploma at Chess Competition, 1st League among Universities in Kyrgyzstan (2018)

1st place winner Diploma at Chess Competition, 2nd League among Universities in Kyrgyzstan (2017)

2nd place winner Diploma at Chess Competition, 2nd League among Universities in Kyrgyzstan (2016)

2nd place winner Diploma in Junior Chess Tournament (2013)

1st place winner Diploma at Chess Competition in Osh city (2012)

2nd place winner Diploma, High School Chess Tournament #1(2012)

3rd place winner Diploma, Federal Championship in Kyrgyzstan (2011)

### **Certificates and awards:**

3rd place winning Robotic Challenge, Ala-Too International University (2018)

Certificate of appreciation in Recognition of Phenomenal Participation and Commendable Performance in the RobotoFest Competition as a Team Leader (2018)

2nd place winning of Line Follower Robot Competition (2017)

Winner of Gold Medal, "INFORMATRIX ASIA" International computer project competition (2017)

Certificate of participation at Obstacle Avoidance Robot Competition (2016)

Certification of participation in the Master of Cubic Rubik Competition (2015)

