

Izbassar Yesbol

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EDUCATION

Astana IT University

Astana, Kazakhstan

B.Sc. in Electronic Engineering

Expected Jun 2027

Relevant Coursework: Microcontroller Programming (AVR/ARM Cortex-M), Control Systems (Bode/Nyquist), Semiconductor Physics.

Study Abroad – Aviation Engineering Program

Chongqing, China | Dec 2024

EXPERIENCE

Center for Sustainable Development of the Capital LLP

Astana, Kazakhstan

IoT Engineer

Mar–Aug 2026

- Developed ESP32-C6 firmware in C++ for BLE access control, including authenticated commands, relay actuation, diagnostics, and OTA updates.
- Built a Kotlin/Jetpack Compose Android administration app for a system deployed at 15 residential access points.

ATK LLP

Astana, Kazakhstan

Cable Technician

May–Aug 2025

- Installed 2,800+ m of Cat5e/Cat6 structured cabling and terminated and tested RJ-45 lines against floor plans.
- Mounted and configured 30+ CCTV cameras and enterprise Wi-Fi access points while following elevated-work safety procedures.

PROJECTS

EKNOT Smart Access System

May–Aug 2026

- Built an ESP32-C6 BLE smart-lock platform with a Kotlin/Jetpack Compose Android app, AES-128-CBC challenge–response, 3-step provisioning, OTA updates, audit-log sync, and controls for 4 operational roles.
- Measured unlock at 1.32 s, traced 82% of latency to BLE setup, and added warm connections, challenge prefetch, and OPEN-priority scheduling; validated core flows with 31 JUnit tests.

ANPR Access Control Pilot

2026

- Integrated Dahua license-plate recognition with a local FastAPI gateway, an access allowlist, and physical barrier control.
- Built temporary vehicle access and manual operator workflows; validated the pilot across approximately 4,000 vehicle passages.

YOLO KZ – Geomarketing Analytics Backend

Jun 2026

- Implemented 24 ASP.NET Core 8 REST endpoints for phone OTP auth, sites and devices, idempotent camera-event ingest, live LEFT/RIGHT counts, and hourly analytics.
- Secured user and device flows with per-device API keys, 15-minute JWTs, and rotating 30-day refresh tokens; containerized the API and PostgreSQL with Docker Compose.

LEADERSHIP & ACTIVITIES

AITU Chess Club

Astana, KZ | 2024–Present

- Represented Astana IT University in the INTER NOV '24 international interuniversity online chess tournament.

Astana IT University Intellectual Club

Winter 2025

- Led a 6-member team to the Grand Final of the inaugural Astana Student League “What? Where? When?”.

SKILLS & CERTIFICATIONS

Technical: C/C++, ESP32, BLE, GPIO, OTA, AVR/ARM Cortex-M, MATLAB/Simulink, Kotlin, FastAPI, ASP.NET Core, REST APIs, PostgreSQL, Docker, Git.

Tools: PlatformIO, CLion, Microchip Studio, NI Multisim.

Languages: Kazakh (Native), Russian (C1), English (B2).

Certifications: Huawei AI & Applications (2025); Google Cloud – Prompt Design in Vertex AI, Responsible AI, Generative AI Fundamentals.