RASSUL ZEINULLA
AUTOMATION AND ROBOTICS ENGINEER

Kazakhstan, Almaty │ rasulzeynullaer@mail.ru │ +77056054783
www.linkedin.com/in/rassul-zeynulla │ *https://github.com/rassulz*

PROJECTS EXPERIENCE

Turtlebot3 Point to Point Navigation │ Mobile Robot
The project implements Turtlebot3 movement to predefined points on a map using ROS and MoveBase. The key feature is reading goals from a file and converting them into robot positions and orientations.

Inverted Pendulum on Moving Platform │ Control Systems
Developed a self-balancing inverted pendulum mounted on a mobile platform using an ESP32 microcontroller. Implemented a PID controller with real-time feedback from IMU6050, processed through a complementary filter and Simulink diagram.

PLC-Based Industrial Automation Training Stand │ PLC engineering
Built an automation stand with a Siemens S7-300 PLC, HMI in XP Builder, inductive sensors, and relays controlling a conveyor motor. (LD) logic in TIA Portal for start/stop, direction, and emergency functions, and integrated real-time HMI visualization for system monitoring and control.

WORK & ACADEMIC EXPERIENCE

HYUNDAI TRANS KAZAKSTAN Internship   Jun 2025 - Jul 2025
Developed PLC (Siemens S7-300 in TIA Portal) and HMI interface in XP Builder, integrated inductive sensors, implemented start/stop, direction, and emergency stop logic, and assembled a complete control panel with relays, timers, and protection devices for a conveyor automation system.

Assistant of KBTU Robotics Laboratory   Sep 2024 - May 2025
Implementing Computer Vision models and fine-tuning them
Programming on Raspberry PI and microcontrollers

ITFest 2024 – Mentor & Assistant Referee (Robotics Sector)   December 2024
Mentored teams during robotics track, improving robot designs and performance. Served as referee for robotics soccer competition. Gained experience in mentoring, technical advising, and event coordination in a tech-focused environment.

SKILLS

Software	Hardware
Python/C++/ ROS2	Rasberry pi 4/5, Nvidia Orin nano
Overleaf/LATEX	ATmega 328P, ESP32
Linux (ubuntu)	Modicon M340, SIMATIC s7-1200s,
Computer Vision	SIMATIC s7-300
IEC 61131-3	RoArm-M2-S (WS)
TIA Portal, XP builder	UGV Rover (WS)
	REALSENSE D435I

EDUCATION

Bachelor Automation and Control Engineering   Sep 2022 - Sep 2026
Kazakh-British Technical University
- Specialty: "Automation and Control"
- Language of education: English

ADDITIONAL INFORMATION

- **Languages:** English, Russian, Kazakh
- **Certifications:** HUAWEI Overview of AI (Kazakh)