

# ELNUR MAVLONOV

Tashkent, Uzbekistan — +998 (33) 080-08-19  
250077@newuu.uz — linkedin.com/in/elnur-mavlonov — github.com/elnurmavlonov

## ENGINEERING UNDERGRADUATE — PHYSICAL AI & ECO-TECH

Mechanical Engineering student with a specialized background in AI and Robotics. Stage 2 Harvard Ventures participant fusing mechanical systems with computational intelligence to solve environmental challenges.

## EDUCATION

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### New Uzbekistan University (NewUU) Tashkent, Uzbekistan

*Bachelor of Science in Mechanical Engineering* Exp. May 2029

- GPA: 3.35 / 4.0
- Key Coursework: CS 100: Information Systems & Digital Technologies (B+), Physics I (B), Calculus 1 (B), First Principles of Innovation (Pass).
- Current Semester: Registered for Calculus 2, Physics 2, and Creative Thinking & Design (Spring 2026).

### Specialized IT School named after Al-Khwarizmi Tashkent, Uzbekistan

*High School Diploma with Honors (Specialized Technical Curriculum)* Jun 2024

- Cumulative GPA: 5.0 / 5.0 (Perfect Score)
- Specialization: 3+ years of intensive training in Artificial Intelligence, Robotics, Computer Networking, and Computer Graphics.
- Leadership: Captain, Varsity Volleyball Team.

## TECHNICAL ARSENAL

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- Engineering & Design: Fusion 360 (CAD), Mechanical Systems Modeling, Rapid Prototyping.
- Computation: Python, Algorithms, Data Structures, Research Methodology.
- Languages: Uzbek (Native), English (Fluent), Russian (Intermediate), Japanese (Beginner), Uzbek Sign Language.

## RESEARCH & PROFESSIONAL EXPERIENCE

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### New Uzbekistan University (NewUU), Mathematics Department *Research Assistant — Semi-Supervised ML (Graph Laplacians)*

*Dec 2025 – Present Tashkent, Uzbekistan*

*Tashkent, Uzbekistan*

- Conducting research on semi-supervised machine learning using graph Laplacians, exploring spectral methods for label propagation on graph-structured data.
- Investigating the theoretical properties of the graph Laplacian operator and its application to semi-supervised classification tasks.
- Collaborating with the Mathematics Department faculty to develop algorithmic frameworks for learning with limited labeled data.

### Uzbek State University of World Languages *Research Assistant* Mar 2025 – May 2025 Tashkent, Uzbekistan

*Tashkent, Uzbekistan*

- Co-authored research on "Comparative Literature-Based Study of Task-Based and Content-Based Approaches."
- Collected raw data sets and performed statistical processing to validate research hypotheses.

### Ministry of Ecology *Environmental Policy Analyst Intern*

*Sep 2024 – Nov 2024 Tashkent, Uzbekistan*

*Tashkent, Uzbekistan*

- Analyzed environmental legislation to draft daily policy briefs; facilitated data-driven communication.

### Omad-Fayz Qurilish Servis *Technical Assistant*

*Jun 2024 – Aug 2024 Tashkent, Uzbekistan*

*Tashkent, Uzbekistan*

- Drafted comprehensive technical reports to support project development.
- Managed administrative documentation and utilized Excel for construction data management.

### Tashkent State Transport University *Co-Author*

- Publication: "Philosophy's Role in Social Consciousness." Published research analyzing the intersection of social frameworks and engineering ethics.

## PROJECTS & VENTURES

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### Team ~105 (Civic-Tech Initiative) *Co-Founder & Team Leader* Jun 2025 – Present Tashkent, Uzbekistan

*Tashkent, Uzbekistan*

- Founded a rapid-response engineering team to address social issues through civic-tech solutions.
- Developed waste-sorting incentive algorithms to gamify environmental action.
- Secured \$400 in grant funding through competitive pitching to stakeholders.

**Eco-Union** *Vice-President & Lead Technician*

*Oct 2020 – May 2024 Tashkent, Uzbekistan*

*Tashkent, Uzbekistan*

- Engineered working prototypes for an urban air purification system and a rainwater collector.
- Coordinated 300+ volunteers in nationwide campaigns.

## **HONORS & AWARDS**

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- Ai500! Hackathon (Agrobank x IT Community): Ranked Top 20 out of 1,300+ participants (Top 1.5%) in a national AI solution challenge with a 500M UZS prize fund.
- Friends International Camp: Selected participant for international cultural exchange program (Aug 2023).
- Harvard Ventures-TECH Summer Program (HVTSP): Selected as a Stage 2 Participant in a competitive startup internship program backed by Harvard College Ventures (2024).
- Green Flag Award (FEE): First recipient in Central Asia. Recognized by the Foundation for Environmental Education for school-wide sustainability leadership (2024).
- Certificate of Appreciation: Awarded by the Ecological Party of Uzbekistan for environmental initiatives and impact.
- 1st Place, Mirzo Ulug'bek Vorislari: National engineering competition winner (2024).
- Finalist, GreenTech Hackathon: Recognized by U-ENTER for top-tier green technology solutions (Oct 2025).
- Finalist, Tech for Ecology Hackathon: Developed digital environmental tools (Jun 2025).
- International Youth Math Challenge (IYMC): Currently qualifying for the final round.