



# NIHAD MAHARRAMOV

## SOFTWARE ENGINEER

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### ABOUT ME

Nihad Maharramov, an undergraduate student at BEU - INHA University's IT Department, currently learning low-level AI and specializing in C, C++ and Python. My expertise extends to embedded systems and UAV technologies, where I focus on developing innovative solutions that integrate hardware and software. I am passionate about advancing my skills in autonomous systems and AI-driven technologies, particularly in their applications within drone and aviation industries. My goal is to contribute to cutting-edge projects and pursue further education through a master's degree to deepen my expertise.

### TOP SKILLS

Embedded Systems Development  
AI Implementation  
Low-Level Programming

STM32, STM32F4  
Atmega328p, Atmega 88p  
Raspberry Pi, Orange Pi

ESP32, ESP8266  
Wireless Communication & IoT  
C, C++, Python, JavaScript

### PROFESSIONAL EXPERIENCE

#### DEFTECH

**Software Engineer (4 month contract)**

**Aug 2024 - Dec 2024**

<https://deftech.az>

Accomplishments:

- Design and implement software for embedded systems, focusing on RTOS-based solutions, low-level programming, and performance optimization for reliable hardware-software integration.
- Develop AI-driven algorithms and software solutions for autonomous drones and robotics systems, ensuring real-time decision-making and efficient operation.
- Adept at building data acquisition, analysis, and real-time decision-making systems for embedded devices.
- Implement and optimize wireless communication protocols, such as LoRa and BLE, for long-range, low-power IoT and embedded systems.

#### Strategic Scientific Research Center

**Software Engineer**

**Jul 2023 - Aug 2024**

<https://www.setm.tech>

Accomplishments:

- Proficiency in C++ and Python for developing real-time applications in embedded systems.
- Engineered AI algorithms to enhance the autonomy and decision-making capabilities of robotic systems, improving operational efficiency and adaptability.
- Experience in building scalable server-side applications with a focus on robustness and performance.
- Capable of integrating advanced technologies to deliver comprehensive and efficient software solutions.
- Able to leverage diverse skills to develop sophisticated software solutions that meet complex project requirements.

## Ministry of Science and Education Republic of Azerbaijan

### Data Analytics

Oct 2022 - Apr 2023

<https://edu.gov.az/>

#### Accomplishments:

- Proficient in data analysis and visualization using tools like Matplotlib and Seaborn to create insightful graphs and charts.
- Skilled in performing data preprocessing, cleaning, and transformation to prepare datasets for analysis.
- Establishes and monitors key performance indicators (KPIs) using analytical techniques to assess the effectiveness of various strategies.
- Develops and implements data-driven strategies to optimize processes and improve decision-making based on visual analytics.

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## EDUCATION

### INHA University in South Korea

2021 - 2025

Information Technologies

### Baku Engineering University

2021 - 2025

Information Technologies

### National Nuclear Research Center of the Republic of Azerbaijan

2024

Nuclear Physics and Radiation Research

### Code Academy

2023

Software Development

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## ACTIVITIES & REWARDS

### Brand Student

[AzEdu Azerbaijan](#)

### Zangazur UAV Gratitude

[National Military Industry of the Future](#)

### Coodinator

Google Developer Student Clubs

### Microchip Programming Mentor

[BEU ICT Lab Boostcamp 7.0](#)

### Electronics Mentor

[BEU ICT Lab Boostcamp 7.0](#)

### Encouragement Certificate

[Baykar Technologies](#)

### Second Place Winner

[Innovative methods in the development of education](#)

### First Place Winner

[Robotex Turkey](#)

### First Place Winner

[Robotex Eurasian Championship](#)

### Second Place Winner

[Mission:2030 Hackathon SDG](#)

### Honorable Mention

Awarded for achievements in the field of education and services to the promotion of the Baku Engineering University.

### Certificate of Acknowledge

Awarded for its active participation in the 'Development of Agrarian Innovation and Startup Ecosystem'.