

# Asif Ganbayev

Ph.D, Associate Professor

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**LinkedIn:**

<https://www.linkedin.com/in/asif-ganbayev/>

**Google Scholar:**

<https://scholar.google.com/citations?user=p3Fl6rIA>

**Marital status:** Married , 2 children.

Strong engineering skills with Ph.D focused on AI, Electronics and Radio Engineering. Excellent communication skills, able to work independently as well as in a team.

## Skills

C/C++ programming language	<div><div></div></div>	Excellent
Verilog / VHDL - Intel FPGA programming	<div><div></div></div>	Very Good
Linux OS / Bash Scripting (System administration)	<div><div></div></div>	Excellent
Microcontroller programming (STM32), FreeRTOS	<div><div></div></div>	Excellent
Assembly language (Reverse engineering)	<div><div></div></div>	Very Good
Machine learning	<div><div></div></div>	Very Good
UAV firmware (PX4/ArduPilot)	<div><div></div></div>	Very Good
Python programming language	<div><div></div></div>	Excellent

## Work History

2023-05 –  
Current

### Acting Head of Department

Academy of State Customs Committee of Azerbaijan, Baku

- Department of Information Technologies & Technical Sciences

2025-08 – Current	<b>Associate Professor</b> Academy of State Customs Committee of Azerbaijan, Baku <ul style="list-style-type: none"> <li>• Department of Information Technologies &amp; Technical Sciences</li> </ul>
2022-09 – 2025-08	<b>Assistant Professor</b> Academy of State Customs Committee of Azerbaijan, Baku <ul style="list-style-type: none"> <li>• Department of Information Technologies &amp; Technical Sciences</li> </ul>
2021-09 – 2025-01	<b>Senior Lecturer</b> Inha (South Korea)- BEU (Azerbaijan) Double Diploma Program (DDP) , Khirdalan
2021-09 – 2022-09 (Full time) - 2024-06 (Part - time)	<b>Senior Lecturer</b> Baku Engineering University, Khirdalan <ul style="list-style-type: none"> <li>• Department of Computer engineering &amp; IT</li> </ul>
2020-02 - 2022-09	<b>Embedded Systems Developer</b> "Vitta" Scientific Technical Company, Baku <ul style="list-style-type: none"> <li>• Synapline asif@synapline.ai</li> </ul>
2018-09 - Current	<b>Lecturer</b> SABAH groups - Ministry of Education, Baku
2017-09 - 2021-09	<b>Lecturer</b> Baku Engineering University, Khirdalan <ul style="list-style-type: none"> <li>• aqanbayev@beu.edu.az</li> <li>• BEU ICT Research Center management</li> <li>• Department of Computer engineering &amp; IT</li> </ul>

## Education

2015-05 - 2019-05	<b>Ph.D.: Electronics and radio engineering</b> St.Petersburg State University of Telecommunication - Saint-Petersburg, Russian Federation <ul style="list-style-type: none"> <li>• <b>Theme:</b> The formation of modulated radio frequency oscillations with improved spectral and energy characteristics in switch mode power amplifiers based on GaN transistors</li> <li>• Thesis defense date: 10.02.2021</li> </ul>
2010-05 - 2015-05	<b>Master of Science: Electronics, telecommunications and radio engineering</b> St.Petersburg State University of Telecommunications - Saint-Petersburg, Russian Federation <ul style="list-style-type: none"> <li>• Graduated with Honors, Received Government Scholarship</li> </ul>

## Languages

Azerbaijani	<div><div></div></div>	Excellent
Russian	<div><div></div></div>	Excellent
English	<div><div></div><div></div></div>	Very Good
Turkish	<div><div></div><div></div></div>	Very Good

## Additional Information

### Completed courses:

- ***Artificial Intelligence in Border Management, University of Victoria, July 2023, Canada***
- ***Capacity Building in Customs ICT for Azerbaijan, KOICA, July–August 2023, Daejeon, South Korea***
- ***INHA DDP Faculty Training 2022 (Information Technology), INHA University, July–August 2022, Incheon, South Korea***
- ***Data Analytics – Advanced (Fraud Detection, Synthetic Data Generation), Clikc, World Customs Organization (WCO)***
- **Cyber Monitoring Tools Training, conducted at GAIS, Malwation, and PEYK Cybersecurity Headquarters, January 26 – February 2, 2024, Istanbul, Turkey**
- **Firewall and Threat Intelligence Training, conducted at Parta Networks, November 2024, Izmir, Turkey**

### Academic Contributions:

- **Author of textbook on IoT Security** : A comprehensive academic resource covering fundamentals, attack scenarios, encryption/authentication, and hands-on labs with Jetson Nano and cloud-based IoT platforms. The textbook is currently under preparation and intended for use in higher education.
- **Course Developer** for the "**Embedded Systems**" course under the **Work4CE Digital Technologies Module (M02)** : The course was developed within the framework of the Erasmus+ Work4CE project to build cross-domain competencies in higher education.
- **Supervisor for 15 Master's students** across multiple universities:
  - **Sumgayit State University**
  - **Azerbaijan Technical University (SABAH groups)**
  - **Baku Engineering University**
- **PhD Supervisor** for 1 doctoral student at **National Aviation Academy (NAA)**

## Accomplishments

- Awarded scholarships at both Bachelor's and Master's level by the Ministry of Education of the Republic of Azerbaijan
- Named Best International Student of the Year at university (2012)
- Graduated with Honors Diploma in 2015
- Active participation in organizing Maker's Days 2017
- 3rd Place – "CanSat Azerbaijan 2018", organized by Azercosmos and the Ministry of Education
- 1st Place – "CanSat Azerbaijan 2020", organized by Azercosmos and the Ministry of Education
- Speaker at YRIC Conference 2019 – Plenary Session
- Erasmus+ Work4CE Pilot Teaching, March 2024, Antwerp, Belgium
- Erasmus+ Work4CE Pilot Teaching, September 2023, Dortmund, Germany
- Cybersecurity Winter Camp trainer, organized by ASCCA and Coders Azerbaijan, February 2023, Baku

## Certifications

- **Certified Trainer – Advanced Level**, Work4CE Program  
Module: Digital Technologies (M02)  
Technical Course: Embedded Systems  
Issuing Institutions: KU Leuven, Fachhochschule Dortmund, ASCCA, Azerbaijan University of Architecture and Construction.  
Date: November, 2024
- **Artificial Intelligence in Border Management**  
University of Victoria, July 2023, Canada
- **Capacity Building in Customs ICT for Azerbaijan**  
KOICA, July–August 2023, Daejeon, South Korea
- **INHA DDP Faculty Training (Information Technology)**  
INHA University, July–August 2022, Incheon, South Korea
- **Data Analytics – Advanced**  
(Fraud Detection and Synthetic Data Generation)  
Clikc / World Customs Organization (WCO)
- **Cyber Monitoring Tools Training**  
GAIS, Malwation, and PEYK Cybersecurity Headquarters, January 26 – February 2, 2024, Istanbul, Turkey
- **Firewall and Threat Intelligence Training**  
Parta Networks, November 2024, Izmir, Turkey
- **Expert at the Azerbaijan Cybersecurity Organizations Association (AKTA)**  
Serving as a subject-matter expert contributing to cybersecurity evaluation and strategy within

*the national association.*

*Membership Certificate No: F 076*

*Date of Membership: September 20, 2024*

- **Expert in the selection process of Information Technology instructors for the SABAH Groups**

## **Key Academic Courses**

- **Computer Architecture**
- **Operating Systems (POSIX, Win API, Linux kernel, RTOS)**
- **Embedded Systems**
- **System Programming**
- **C, C++, and Python Programming**
- **Data Analytics**
- **Artificial Intelligence**
- **Machine Learning**
- **IoT Security**
- **Microprocessors and Microcomputers**
- **Internet of Things (IoT)**