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<b>Academic Degree, Academic Title</b>	PhD, Associate Professor
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<b>ResearchGate:</b>	[ <a href="https://www.researchgate.net/profile/Dmitriy-Kritskiy">https://www.researchgate.net/profile/Dmitriy-Kritskiy</a> ]

## EDUCATION:

### Basic education (university, major, year of graduation):

National Aerospace University "Kharkiv Aviation Institute", KhA №33172575, February 28, 2008

### Postgraduate/Doctoral studies:

PhD DK №037483, July 01, 2016, based on the decision of the Certification Council

### Additional training, certification programs:

Docent, AD #003766 from December 16, 2019

English - B2 (certificate №000531473 dated 18.06.2019, ECL)

## WORK EXPERIENCE:

### Professional Career (Workplace, Years, Position):

National Aerospace University "Kharkiv Aviation Institute", 2015 – 2016, Assistant of the Department of Information Technology Design;

National Aerospace University "Kharkiv Aviation Institute", 2016 – 2017, Senior Lecturer at the Department of Design Information Technologies;

National Aerospace University "Kharkiv Aviation Institute", 2017 – 2019, Docent of the Department of Design Information Technologies;

National Aerospace University "Kharkiv Aviation Institute", 2019-2021, Head of the Department of Design Information Technologies;

National Aerospace University "Kharkiv Aviation Institute", 2021 – present, Dean of the Faculty of Aircraft Engineering.

### Teaching Experience:

Teaching experience of 15 years.

### Experience in International or National Projects:

1. University of Arizona (USA) scientific cooperation under the NATO Science for Peace Grant (2025),



project number G8126.

2. Creation of European Innovation Hubs joint scientific and practical work with Fraunhofer University (Germany) 2024-2027.
3. Grant from Visegrad №52110488 (2021);
4. Grant from the Visegrad Four №52110652 (2021);
5. Wildau-Kharkiv IT Bridge II within the framework of the DAAD program "Digital Ukraine: Ensuring Academic Success in Times of Crisis (2024)";
6. DAAD OER with Ukraine "Informatics" (2023-2025).

## **RESEARCH ACTIVITIES:**

### **Main Research Areas:**

UAV, eVTOL, Computer Vision, Machine Learning

### **Number of Publications (Scopus, WoS, others):**

Over 120 publications.

### **Monographs, Textbooks:**

Co-author 5 monographs and 4 textbooks.

### **Participation in Scientific Conferences:**

I regularly take part in Ukrainian and international conferences (Germany, Poland, Azerbaijan, Georgia).

## **TEACHING ACTIVITIES:**

### **Courses Taught:**

Machine Learning, Computer Vision, Information Security Technologies, Information Systems Design.

### **Author Courses, Academic Programs:**

Author of courses: Machine Learning, Computer Vision, Information Security Technologies, Information Systems Design

### **Methodological Materials, Textbooks:**

Author of methodological basis for creating information technology for control of swarm distributed mobile objects

## **GRANTS AND PROJECTS:**

### **Participation in International and National Projects:**

1. "Methods of swarm intelligence management for the effective use of unmanned aerial vehicles for civil and military applications", National Aerospace University 'Kharkiv Aviation Institute named after M.E. Zhukovsky', Ministry of Education and Science of Ukraine, № DR 0121U109605 ( Head) 2021-2022
2. "The use of swarm of intelligent unmanned ground vehicles for civil and military applications", National Aerospace University 'Kharkiv Aviation Institute named after M.E. Zhukovsky', Ministry of Education and Science of Ukraine, No. DR0122U000860 (responsible executor) 2022-2023

### **Grants, Scholarships, Academic Mobility Programs:**

1. "Drones center for the cultivation of agricultural land", U.S. Embassy, Public Diplomacy Small Grants Competition – EDUCATION, SUP30023GR0203, 01.10.2023-30.09.2024

### **PROFESSIONAL ACHIEVEMENTS AND AWARDS:**

#### **Honorary Titles:**

1. Diploma of the Ministry of Education and Science of Ukraine (2024)
2. Diploma of the Kharkiv Regional Council (2024)
3. Diploma of the Kharkiv City Council (2023)

### **INTERNATIONAL ACTIVITIES:**

#### **Internships:**

Poland, Higher School of Linguistics, 2019

#### **Cooperation with Foreign Universities:**

Leibniz University Hannover, Germany  
Turku University of Applied Sciences, Finland  
Silesian University of Technology, Poland

#### **Teaching/Lecturing Abroad:**

Shenyang Aviation University, China

### **SELECTED PUBLICATIONS:**

#### **Key Articles (Scopus, WoS, others):**

1. Fedorovich, O., Krytskyi, D., Leshchenko, O., Yashina, O., & Malieieva, Y. (2024). Modeling waves of a strike drones swarm for a massive attack on enemy targets. *Radioelectronic and Computer Systems*, 2024(2), 203-212. doi:<https://doi.org/10.32620/reks.2024.2.16> (Q3)
2. Fedorovych, O., Kritskiy, D., Malieiev, L., Rybka, K., & Rybka, A. (2024). Military logistics planning models for enemy targets attack by a swarm of combat drones. *Radioelectronic and Computer Systems*, 2024(1), 207-216. doi:<https://doi.org/10.32620/reks.2024.1.16> (Q3)
3. Tretiak, O.; Kritskiy, D.; Kobzar, I.; Sokolova, V.; Arefieva, M.; Tretiak, I.; Denys, H.; Nazarenko, V. Modeling of the Stress–Strain of the Suspensions of the Stators of High-Power Turbogenerators. *Computation* 2022, 10, 191. <https://doi.org/10.3390/computation10110191>, <https://www.scopus.com/record/display.uri?eid=2-s2.0-85141591422&origin=resultslist&sort=plf-f> (Q2)
4. Shevel, V.; Kritskiy, D.; Popov, O. Toward Building a Functional Image of the Design Object in CAD. *Computation* 2022, 10, 134. <https://doi.org/10.3390/computation10080134>, <https://www.scopus.com/record/display.uri?eid=2-s2.0-85136610576&origin=resultslist&sort=plf-f> (Q2)
5. Increasing the reliability of drones due to the use of quaternions in motion / Kritskiy, D., Karatanov, A., Koba, S., Druzhinin, E. / Proceedings of 2018 IEEE 9th International Conference on Dependable Systems, Services and Technologies, DESSERT 2018. DOI: 10.1109/DESSERT.2018.8409157 (Q4)



## **ADDITIONAL INFORMATION:**

### **Language Proficiency:**

Ukrainian, English

### **IT Skills:**

Python, SolidWorks

