



Name	Zakharenko Volodymyr
Position, Department/Faculty	Associate Professor, Department of Software Engineering / Faculty of Business & Software Engineering
Academic Degree, Academic Title	Candidate of Technical Sciences (PhD), Associate Professor
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Google Scholar:	https://scholar.google.com/citations?hl=uk&authuser=1&user=1sn_uQgAAAAJ
ResearchGate:	https://www.researchgate.net/profile/Volodymyr-Zakharenko?ev=hdr_xprf

EDUCATION:

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

Kharkov Aviation Institute, Systemotechnical Engineering,
1988 – 1993, Student Study

Postgraduate/Doctoral studies:

Kharkov Aviation Institute, Department of Aerohydrodynamics, 1997-1999 Magistr Study
PhD (Aerodynamics & Gas Dynamics of Flight Vehicles), 1999 – 2001, Post-graduate Study

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Kharkov Aviation Institute, Department of Aerohydrodynamics, 1997 – 1999, Assistant professor
State Aerospace University, Department of Aerohydrodynamics, 1999 – 2001, Post-graduate Study
National Aerospace University, Department of Aerohydrodynamics, 2001 – 2011, Assistant professor
National Aerospace University, Department of Aerohydrodynamics, 2011 – 2018, Associate professor
National Aerospace University, Department of Software Engineering, since 2020, Associate professor

Teaching Experience:

Teaching experience of over 20 years

Experience in International or National Projects:

Experience in international or national projects more than 5 years

RESEARCH ACTIVITIES:

Main Research Areas:

1. Aerodynamics and flight dynamics of aircraft
2. Experimental aerodynamics (Wind Tunnel Test)
3. Network design
4. Operating systems

Number of Publications (Scopus, WoS, others):

Total number: About 40 publications.

Participation in Scientific Conferences:

Total number: More than 20 publications.

TEACHING ACTIVITIES:

Courses Taught:

1. Hydropneumatic devices of aircraft systems
2. Aerodynamics of aviation and rocket-space technology
3. Flight dynamics
4. Operating Systems
5. Computer Networks
6. Empirical methods of science researches

Methodological Materials, Textbooks:

1. Basics of preliminary selection of design parameters of a spacecraft with low-thrust engines, 2002
2. Aerodynamics and flight dynamics, 2003
5. Experimental hydraulics, 2012
6. Aerodynamics of helicopters, 2012
7. Helicopter flight dynamics, 2014
8. Operating systems, 2023
9. Computer Networks, 2025

GRANTS AND PROJECTS:

Participation in International and National Projects:

Curtin University of Technology, 2008 – 2011,

Project Plan Name: Novel Railway Haulage Aerodynamics

Project Description:

1. To ascertain the influence of the shape of railway wagon for transportation of dry bulk commodities and consist design on the aerodynamic properties of the railway consist and provide recommendations on the optimum method/s or a combination of methods for reducing the air drag of the railway wagon/consist.
2. Computational modeling of various aerodynamic regimes of rail wagons aimed at selecting wagon design configurations with most potential for reducing air drag for further, physical modeling in wind tunnel.
3. Physical, i.e. wind tunnel modeling of rail wagons with various aerodynamic attachments aimed at selecting wagon design configurations with the most potential for reducing air drag.

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Optimization of energy consumption of the CubeSat on-board computer under real-time limitations, DOI: <https://doi.org/10.32620/aktt.2024.3.10>

2. Designing a database of trips of public transport users with elements of data warehouse technology, DOI: <https://doi.org/10.32620/oikit.2023.97.13>

3. A combined scheme for calculating the aerodynamic characteristics of a helicopter with a single rotor, DOI: <https://doi.org/10.32620/oikit.2025.103.07>

Links to Citation Database Profiles:

https://scholar.google.com/citations?hl=uk&authuser=1&user=1sn_uQgAAAAJ

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian (native speaker)

English (fluent, reading)

IT Skills:

Operation in Windows, Linux, Microsoft Office, Adobe, Corel, SolidWorks Simulation