



Name	Vitaliy Pavlenko
Position, Department/Faculty	Professor, Department of Composite Structures and Aviation Materials Science / Faculty of Rocket and Space Engineering
Academic Degree, Academic Title	Doctor of Science in Engineering, Professor
Email:	v.pavlenko@khai.edu
Scopus Author ID:	ID: 57194519783
Web of Science ResearcherID:	ID: H-5105-2018
ORCID iD:	ID: 0000-0001-6871-2133
Google Scholar:	fX1mJ2wAAAAJ
ResearchGate:	https://www.researchgate.net/profile/Vitaliy-Pavlenko-2?ev=hdr_xprf

EDUCATION:

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

Specialist in the design and production of products from composite materials
Kharkiv Aviation Institute named after M. E. Zhukovsky [1992-1998]

Postgraduate/Doctoral studies:

Doctor of Science in Mechanical Engineering Technology [2013]

Professor

Ministry of Education and Science of Ukraine [2014]

PhD in Processes and Machines for Pressure Forming [2003]

Additional training, certification programs:

Advanced training and internship at the National Aerospace University "Kharkiv Aviation Institute" [2025]

Advanced training and internship at the Kharkiv National University of Urban Economy named after O.M. Beketov [2021]

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Dean of the Faculty of Physics and Technology of the Oles Honchar Dnipro National University [2022 – 2023].

Vice-Rector for Scientific and Pedagogical Work of the National Aerospace University ("KHAI") [2008 – 2020]

Head of the Department of Theoretical Mechanics, Mechanical Engineering and Robotic Systems of the National Aerospace University ("KHAI") [2008 – 2015]

Head of the Educational and Analytical Department of the National Aerospace University ("KHAI") [2003 – 2008].

Teaching Experience:

Professor of the Department of Composite Structures and Aviation Materials Science of the National Aerospace University ("KHAI")

[2024 – current].

Professor of the Department of Production Technology of Oles Honchar Dnipro National University [2022 – 2023]

Professor of the Department of Theoretical and Structural Mechanics of the O. M. Beketov Kharkiv National University of Urban Economy

[2020 – 2022].

Researcher, Assistant, Associate Professor of the Department of Theoretical Mechanics and Mechanical Engineering of the National Aerospace University ("KHAI")

[2000 – 2008]

RESEARCH ACTIVITIES:

Main Research Areas:

Technology of mechanical engineering; production of composite material structures; organization, coordination, and supervision of the educational process at the university.

Number of Publications (Scopus, WoS, others):

Over 200 scientific and educational publications, including indexed articles in Scopus and Web of Science databases; multiple conference proceedings and applied research outputs.

Monographs, Textbooks:

Co-author of 3 monographs.

Participation in Scientific Conferences:

Participant in over 50 scientific and scientific-methodical conferences on mechanical engineering technology and organization of the educational process in higher education institutions

TEACHING ACTIVITIES:

Courses Taught:

Automated methods for manufacturing composite structures; Composite manufacturing of aerospace assemblies; Manufacturing technology for rocket and space structures; Manufacturing technology for intelligent unmanned vehicles, Scientific and practical training, Pedagogy and teaching internship.

Author Courses, Academic Programs:

Author of courses for educational programs: Rocket and Space Technology; Intelligent Unmanned Vehicles.

Methodological Materials, Textbooks:

Co-author of 32 textbooks and instructional-methodological manuals on mechanics, logistics, mechanical engineering technology and organization educational process at the university.

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Distinctions, Awards, Prizes:

Laureate of the State Prize of Ukraine in the field of education in the category "Higher Education" for the series of works titled "Educational-methodological and scientific-technical support for the development of rocket and space education in Ukraine and its integration into the international educational space." [2013].

Letter of Appreciation from the Head of Kharkiv Regional State Administration [2010].

Honorary Certificate awarded by the Ministry of Education and Science of Ukraine [2005].

INTERNATIONAL ACTIVITIES:

Internships:

Warsaw university of technology [2013]

Cooperation with Foreign Universities:

Organization of double degree programs with the following universities:

- Politecnico di Torino (Italy) – Aerospace Engineering
- Otto von Guericke University Magdeburg (Germany) – Logistics

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

Gagauz F. M., Vambol O. O., Kryvenda S. P., Pavlenko V. M., Purgina S. M. Stress state assessment of adhesive joints based on a one-dimensional discrete model // Open Information and Computer Integrated Technologies. – 2025. – No. 103. – P. 57–69. – DOI: 10.32620/oikit.2025.103.05.

Pavlenko V., Pavlenko V., Manuilov V., Kuzhel V., Buda A. Cloud solutions for integration and analysis of remote monitoring data of vehicles // Journal of Mechanical Engineering and Transport. – 2024. – Vol. 10, No. 2. – P. 109–117. – DOI: 10.63341/vjmet/2.2024.109.

Kalynychenko D., Manko T., Pavlenko V., Pavlenko T. Technical and economic substantiation of the air launch aerospace system parameters // *Space Science and Technology*. – 2023. – Vol. 29, No. 2 (141). – P. 3–9. – DOI: 10.15407/knit2023.02.003

Kuzminska O., Mazorchuk M., Morze N., Pavlenko V., Prokhorov A. Study of Digital Competence of the Students and Teachers in Ukraine // Communications in Computer and Information Science. – 2019. – Vol. 1007. – P. 148–169. – DOI: 10.1007/978-3-030-13929-2_8

Kuzminska O., Mazorchuk M., Morze N., Pavlenko V., Prokhorov A. Digital Competency of the students and teachers in Ukraine: measurement, analysis, development prospects // Information and Communication Technologies in Education, Research, and Industrial Applications. – 2018. – Vol. 2104. – P. 366–379. – (Communications in Computer and Information Science). – URL: http://ceur-ws.org/Vol-2104/paper_169.pdf

Voropai O., Pavlenko V., Pavlenko T., Morozova O., Kuznetsova A. Solving transport logistics problems in a virtual enterprise through artificial intelligence methods // Transport Problems. – 2017. – Vol. 12, No. 2. – P. 31–42. DOI: 10.20858/tp.2017.12.2.4.

Books, Chapters in Collective Monographs:

Gagauz F.M., Kryvenda S.P., Vambol O.O., Taranenko I.M., Pavlenko V.M. Composite Structures in Aviation and Rocket-Space Technology. – Kharkiv: National Aerospace University “Kharkiv Aviation Institute” named after N. Zhukovsky, 2025. – 152 p.

Andreev A.O., Pavlenko V.M., Sysoiev Yu.O. Manufacturing Technology. Fundamentals of Vacuum Arc Coating Deposition: Textbook. – Kharkiv: National Aerospace University named after N. E. Zhukovsky “Kharkiv Aviation Institute”, 2018. – 288 p.