



Name	Volodymyr Oliinyk
Position, Department/Faculty	Professor Department of Radioelectronic and Biomedical Computerized Means and Technologies / Faculty of Radio Electronics, Computer Systems and Infocommunications
Academic Degree, Academic Title	PhD, Associate Professor
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Google Scholar:	https://scholar.google.com.ua/citations?user=_jTm1bgAAAAJ
ResearchGate:	

EDUCATION:

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

Kharkiv State University	
1969 – 1974	Specialty: Radiophysics and Electronics

Postgraduate/Doctoral studies:

Kharkiv Aviation Institute	
1986 – 1991	PhD in the technical sciences, specialty "Mechanics of a deformable solid "

Additional training, certification programs:

2013 – 2018	Certificate of advanced training ПК 02066769/000534-18, Department of Postgraduate Education of the National Aerospace University "Kharkiv Aviation Institute", registration number 1403 dated December 21, 1918. Topic of the graduation thesis: "ECG diagnostics of the functional state of a person based on fractal analysis", 6 academic credits.
2017 - 2021	Certificate of advanced training ПК02066769 / 000830 – 21, Department of Postgraduate Education of the National Aerospace University "Kharkiv Aviation Institute", registration number 1700 dated December 21, 1918. Topic of the graduation thesis: "The influence of geomagnetic factors on human biomedical reactions ", 6 academic credits.

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

1974 – 1977	Engineer of the Department of Theoretical Mechanics of the Kharkiv Aviation Institute
1977 - 1979	Senior Engineer of the Computing Center of the Kharkiv Aviation Institute
1979 - 1984	Software Engineer of the Computing Center of the Kharkiv Aviation Institute

1984 – 1991	Junior Research Fellow, Department of Theoretical Mechanics, Kharkiv Aviation Institute
1991 – 1995	Senior Researcher, Department of Design and Production of Radio Equipment, Kharkiv Aviation Institute
1995 – 1996	Assistant at the Department of Design and Production of Radio Equipment, Kharkiv Aviation Institute
1996 – 2000	Senior Lecturer, Department of Design and Production of Radio Equipment, Kharkiv Aviation Institute named after M.E. Zhukovsky
2000 - 2009	Associate Professor of the Department of Production of Radioelectronic Systems of Aircraft of the National Aerospace University “Kharkiv Aviation Institute”
2009 – 2018	Professor of the Department of Production of Aircraft Radioelectronic Systems of the National Aerospace University “Kharkiv Aviation Institute”
2018 – present	Professor of the Department of Radioelectronic and Biomedical Computerized Means and Technologies, National Aerospace University "Kharkiv Aviation Institute"

Teaching Experience:

During his teaching activities, he conducted lectures, practical and laboratory classes in the following specialties: Biotechnical and medical devices and systems (1995 - 2016), "Radioelectronic devices and devices" (2000 - 2015), "Telecommunications and radio engineering" educational program "Radioelectronic computerized devices" (2014 - 2022), "Biomedical engineering" educational programs "Biomedical engineering" and "Biomedical informatics and radioelectronics" (from 2016 - present).

RESEARCH ACTIVITIES:

Main Research Areas:

Scientific interests: Wireless power supply of implants, Technical means of information-wave therapy, Diagnostic devices using the gas-discharge visualization method.

Responsible executor of the scientific topic "Mathematical models, methods, technologies and means of diagnosing, predicting and correcting the state of biological objects (2021 – 2023).

Number of Publications (Scopus, WoS, others):

I have over 110 scientific publications, including author certificates.

Monographs, Textbooks:

Co-author of the monograph Generator of ultra-low intensity electromagnetic radiation in medicine [Text] / Yulia Voloshyn, Serhiy Kulish, Volodymyr Oliinyk // National Health as Determinant of Sustainable Development of Society. Editors: Nadiya DUBROVINA & Stanislav FILIP. Monograph. School of Economics and Management in Public Administration in Bratislava, 2021, – C. 107 – 123. ISBN 978 – 80 – 89654 – 73 – 4 EAN 9788089654734.

Participation in Scientific Conferences:

He has repeatedly participated in international scientific and practical conferences “Integrated computer technologies in mechanical engineering” (Kharkiv), “Radio engineering fields, signals, devices and systems” (Kyiv), “Modern information technologies for managing environmental safety,



nature management, and emergency measures” (Kyiv), “Problems of modern energy and automation in the nature management system (theory, practice, history, education)” (Kyiv), “Information Systems and Technologies in Medicine” (Kharkiv), and many other conferences on the topic of scientific research.

TEACHING ACTIVITIES:

Courses Taught:

In accordance with the curricula of different academic years, I teach a number of mandatory and elective subjects: "Fundamentals of Electronics and Circuit Engineering"; "Fundamentals of the Interaction of Physical Fields with Biological Objects"; "Hardware Methods of Medical and Biological Research"; "Electronics and Circuit Engineering"; "Diagnostic and Therapeutic Devices and Systems", "Instruments for Visualizing Biomedical Information"; "Biometrics"; "Biophysics and Biomechanics"; "Design of Biomedical Engineering Tools and Technologies.

Author Courses, Academic Programs:

My author's courses: "Biophysics and Biomechanics"; "Fundamentals of Electronics and Circuit Engineering"; "Fundamentals of the Interaction of Physical Fields with Biological Objects"; "Hardware Methods of Medical and Biological Research".

Methodological Materials, Textbooks:

1. Oliinyk V.P. Fundamentals of the interaction of physical fields with biological objects [Text]: teaching aid / V. P. Oliinyk. – Kharkiv: National Aerospace University named after M. Ye. Zhukovsky “Kharkiv. Aviation Institute”, 2020. – 72 p. ISBN 978-966-662-730-1

2. Oliinyk, V. P. Hardware research methods in biology and medicine [Text]: textbook / V. P. Oliinyk. – Kharkiv: National Aerospace University named after M. E. Zhukovsky “Kharkiv. Aviation Institute”, 2021. – 112 p. ISBN 978-966-662-802-5

3. Oliinyk, V. P. Elemental base of radio electronics [Text]: textbook / V. P. Oliinyk. – Kharkiv: National Aerospace University named after M. E. Zhukovsky “Kharkiv. Aviation Institute”, 2022. – 88 p. ISBN 978-966-662-894-0

4. Oliinyk, V. P. Therapeutic devices and systems [Text]: textbook / V. P. Oliinyk, D. V. Telychko. – Kharkiv: National Aerospace University named after M. E. Zhukovsky “Kharkiv. Aviation Institute”, 2022. – 88 p. ISBN 978-966-662-899-5

5. Fundamentals of technology and design of biomedical devices [Electronic resource]: a manual for implementing a comprehensive course project / M. F. Babakov, Yu. A. Voloshyn, O. M. Zinchenko, S. M. Kulish, V. M. Oliinyk, V. P. Oliinyk. – Kharkiv: National Aerospace University named after M. Ye. Zhukovsky “Kharkiv. Aviation Institute”, 2023. – 79 p.

6. Methodological recommendations for the preparation and design of students’ qualifying final theses [Electronic resource]: Methodological publication / compilers: V. M. Oliinyk, V. P. Oliinyk, S. M. Kulish. – Kharkiv: National Aerospace University named after M. Ye. Zhukovsky “Kharkiv. Aviation Institute”, 2023. – 104 p.

7. Fundamentals of technology and design of biomedical devices [Electronic resource]: a manual for practical work / V. M. Oliinyk, S. M. Kulish, V. P. Oliinyk, Yu. A. Voloshyn, O. M. Zinchenko. – Kharkiv: National Aerospace University named after M. Ye. Zhukovsky “Kharkiv. Aviation Institute”, 2023. – 152 p.

8. Oliinyk, V. P. Methods of medical and biological research [Electronic resource]: a manual for practical work / V. P. Oliinyk, Yu. A. Voloshyn. – Kharkiv: National Aerospace University named after M. Ye. Zhukovsky “Kharkiv. Aviation Institute”, 2024. – 78 p.

9. Components of the element base of electronics [Electronic resource]: a manual for practical



work / S. M. Kulish, V. P. Oliinyk, Yu. A. Voloshyn, O. M. Zinchenko. – Kharkiv: National Aerospace University “Kharkiv Aviation Institute”, 2025. – 72 p. ISBN 978-966-996-035-1

Distinctions, Awards, Prizes:

Honorary title "Professor of the Department of Production of Aircraft Radioelectronic Systems, issued by the M.E. Zhukovsky National Aerospace University "Kharkiv Aviation Institute", certificate No. 53 dated 04/29/2009.

In the 2019 academic year, he received gratitude from the Ministry of Education and Science of Ukraine for many years of conscientious work, significant personal contribution to the training of highly qualified specialists and fruitful scientific and pedagogical activity.

In 2021, he was awarded a Certificate of Honor from the Executive Committee of the Kharkiv City Council for many years of conscientious and fruitful work, high professionalism, significant contribution to the development of education and science in the city of Kharkiv and on the occasion of the Constitution Day of Ukraine.

Membership in Professional Associations:

Member of the public organization «All-Ukrainian Association of Biomedical Engineers and Technologists».

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Oliinyk V.P. Contactless power supply of implants [Text] / V. P. Oliinyk, D. V. Telychko // Radioelectronic and computer systems: Scientific and technical journal – Kh.: National Aerospace University “Kharkiv Aviation Institute”, 2019, No. 3 (91). – P. 30 – 39. Doi: 10.32620/reks.2019.3.03

2. Oliinyk, V. P. The influence of energy loss of an implant with wireless power supply on the thermal state of the organism [Text] / V. P. Oliinyk, D. V. Telychko, V. M. Oliinyk // Radioelectronic and computer systems: Scientific and technical journal – Kh.: National Aerospace University “Kharkiv Aviation Institute”, 2021, No. 3 (99). – P. 114 – 124. Doi: 10.32620/reks.2021.3.09

3. Voloshyn, Y., Kulish, S., Oliinyk, V., Frolov, A. (2021). Study of the effects of ultra-low intensity electromagnetic fields on biological objects. Technology Audit and Production Reserves, №6/1 (62), 2021. 11–18. doi: <http://doi.org/10.15587/2706-5448.2021.244643>

4. Oliinyk, V., Babakov, M., Lomonosov, Y., Oliinyk, V., Zinchenko, O. (2022). Modernization of gas discharge visualization for application in medical diagnostics. Technology Audit and Production Reserves, 4 (1 (66)), 21–29. doi: <http://doi.org/10.15587/2706-5448.2022.263397>

5. Oliinik V.P., Telychko D. V. (2022). Overview of modern technical wireless solutions power supply of implants with high consumption power / Scientific Collection «InterConf», (123): with the Proceedings of the 1st International Scientific and Practical Conference «Science in the Environment of Rapid Changes» (September 6-8, 2022). Brussels, Belgium: De Boeck, 2022. 269 - 273 p. ISBN 978-2-8037-1533-6

6. Oliinyk V. P., Telychko D. V., Kulish S. M., Voloshyn Yu. A. Hybrid power supply system for the “Artificial Heart” device / V. P. Oliinyk, D. V. Telychko, S. M. Kulish, Yu. A. Voloshyn // Biomedical Engineering and Technologies. 2023. No. 11(3). P.11–20. doi: <https://doi.org/10.20535/2617-8974.2023.11.288097>



7. Oliinyk, V. P., Voloshyn, Y. A., Zinchenko, O. M, Kulish, S. M, Oliinyk, V. M. (2023). Utilization of gas discharge in alternating current for the detection and stimulation of biologically active points. Biomedical Engineering and Technology Issue 11(3), 2023. 45–55. doi: <https://doi.org/10.20535/2617-8974.2023.11.288113>

8. Oliinyk, V. P. Development of the general structure of the biotechnical system for normalizing the physiological state of a person / V. P. Oliinyk, O. M. Zinchenko, O. O. Mamenchuk // The 27th International scientific and practical conference “Trends of young scientists regarding the development of science” (July 11 – 14, 2023) Edmonton, Canada. International Science Group. 2023. 225 p., 2023. – C. 216 – 221. ISBN – 979-8-89074-573-6. DOI – 10.46299/ISG.2023.1.27

9. Oliinyk, V. P. Electromagnetic compatibility of medical equipment / V. P. Oliinyk, A. Yu. Larkova // XXV International scientific and practical conference // XXV International scientific and practical conference «Current Trends in the Development of Scientific Research in Today's Conditions» (May 29-31, 2024) Florence, Italy. International Scientific Unity, 2024. – P. 216 – 220. ISBN 978-617-8427-17-7

10. Status and prospects for the use of diagnostic tools based on the method of gas-discharge visualization / O.M. Zinchenko, V.P. Oliinyk, P.M. Podpruzhnykov // Radiotekhnika : All-Ukr. Sci. Interdep. Mag. 2024. №218. P. 129 – 143. DOI:10.30837/rt.2024.3.218.11

Links to Citation Database Profiles:

<https://library.khai.edu/ua/authors/oliinyk-volodymyr-petrovych>

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ADDITIONAL INFORMATION:

Language Proficiency:

LANGUAGE SKILLS	
English	Intermediate of written and oral proficiency
Russian	Intermediate of written and oral proficiency
Ukrainian	Mother's tongues

IT Skills:

Information technologies of modern document management in MS Office.

Social and Community Activities:

He is the curator of full-time academic groups.

