



<b>Name</b>	Oleksandr Zinchenko
<b>Position, Department/Faculty</b>	Assistant Department of Radioelectronic and Biomedical Computerized Means and Technologies (502) / Faculty of Radio Electronics, Computer Systems and Infocommunications
<b>Academic Degree, Academic Title</b>	
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<b>ResearchGate:</b>	

## EDUCATION:

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

<b>Ukrainian Engineering and Pedagogical Academy</b>	
1993– 1998	<b>Specialty: Professional training. Electronics, radio engineering, electronic circuit engineering</b>
<b>National Aerospace University "Kharkiv Aviation Institute"</b>	
2020 –2021	<b>Specialty: Biomedical Engineering</b>

**Postgraduate/Doctoral studies:**

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**Additional training, certification programs:**

## WORK EXPERIENCE:

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

2018 – present	Assistant of the Department of Radioelectronic and Biomedical Computerized Means and Technologies, National Aerospace University "Kharkiv Aviation Institute"
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**Teaching Experience:**

**Experience in International or National Projects:**

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## RESEARCH ACTIVITIES:

**Main Research Areas:**

Scientific interests: Diagnostic devices using the gas-discharge visualization method.

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

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**Participation in Scientific Conferences:**

Repeatedly participated in international scientific and practical conferences "Information Systems and Technologies in Medicine" (Kharkiv), "Information Society: Technological, Economic and Technical Aspects of Formation", "Information and Communication Technologies and Sustainable Development" (Kyiv), "Current State and Prospects of Biomedical Engineering" (Kyiv) and other conferences on the topic of scientific research.

**TEACHING ACTIVITIES:****Courses Taught:**

"Fundamentals of Electronics and Circuit Engineering"; "Hardware Methods of Medical and Biological Research"; "Electronics and Circuit Engineering"; "Diagnostic and Therapeutic Devices and Systems"; "Biometrics"; "Biophysics and Biomechanics".

**Methodological Materials, Textbooks:**

1. 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.

2. 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.

3. 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

**GRANTS AND PROJECTS:****Participation in International and National Projects:**

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

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**PROFESSIONAL ACHIEVEMENTS AND AWARDS:****Honorary Titles:**

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**Distinctions, Awards, Prizes:**

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**Membership in Professional Associations:**

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



## INTERNATIONAL ACTIVITIES:

### Internships:

### Cooperation with Foreign Universities:

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### Teaching/Lecturing Abroad:

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## SELECTED PUBLICATIONS:

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

1. 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>

2. 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>

3. 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

4. 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

### Books, Chapters in Collective Monographs:

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### Links to Citation Database Profiles:

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

<https://library.khai.edu/authors/olyajnik-volodimir-petrovich>

## ADDITIONAL INFORMATION:

### Language Proficiency:

Ukrainian (native language)

English – intermediate of written and oral proficiency

### IT Skills:

Information technologies of modern document management in MS Office.

### Social and Community Activities:





Curator of full-time academic groups.

