



|                                        |                                                                                                                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                            | Viacheslav Oliinyk                                                                                                                                                                                                |
| <b>Position, Department/Faculty</b>    | Associate Professor of Department of Radio Electronic and Biomedical Computerized Means and Technologies (502) / Faculty of Radio Electronics, Computer Systems and Infocommunications                            |
| <b>Academic Degree, Academic Title</b> | Candidate of Technical Sciences, Associate Professor                                                                                                                                                              |
| <b>Email:</b>                          | v.oliinyk@khai.edu                                                                                                                                                                                                |
| <b>Scopus Author ID:</b>               | -                                                                                                                                                                                                                 |
| <b>Web of Science ResearcherID:</b>    | -                                                                                                                                                                                                                 |
| <b>ORCID ID:</b>                       | 0000-0001-7443-3720                                                                                                                                                                                               |
| <b>Google Scholar:</b>                 | <a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;hl=en&amp;user=jr9278oAAAAJ">https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;hl=en&amp;user=jr9278oAAAAJ</a> |
| <b>ResearchGate:</b>                   | -                                                                                                                                                                                                                 |

## EDUCATION:

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

| Kharkiv Aviation Institute |                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------|
| 1966 – 1972                | Radio engineer, designer-technologist, specialty "Design and production of radio equipment" |

### Postgraduate/Doctoral studies:

| Kharkiv Aviation Institute |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1976 – 1980                | Candidate of Technical Sciences, specialty "Radio engineering devices and systems (radio engineering and television systems)" |

### Additional training, certification programs:

|      |                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------|
| 2017 | Advanced training in National Aerospace University "Kharkov Aviation Institute", Certificate of training program № 1035                |
| 2021 | Advanced training in National Aerospace University "Kharkov Aviation Institute", Certificate of training program ПК 02066769/000831-21 |

## WORK EXPERIENCE:

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

|                    |                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1981 – 1991        | Kharkiv Aviation Institute, Department of Design and Production of Radio Electronic Equipment, Senior Lecturer                                                     |
| 1991 – 2000        | Kharkiv Aviation Institute, Department of Design and Production of Radio Electronic Equipment, Associate Professor                                                 |
| 2001 – present day | National Aerospace University "Kharkov Aviation Institute", Department of Radio Electronic and Biomedical Computerized Means and Technologies, Associate Professor |

### Teaching Experience:

34 years.

Taught various disciplines in the specialties "Telecommunications and Radio Engineering" and "Biomedical Engineering" in the areas of: design, construction and production technology of radio electronic equipment, telecommunications and biomedical equipment.

In recent years, taught such courses as: "Design of radio-electronic and biomedical devices", "Design and technology of radio-electronic and biomedical devices", "Fundamentals of design of radio-electronic equipment", "Fundamentals of CAD of radio-electronic equipment", "Design and technology of radio-communication equipment", "Diagnostic and therapeutic devices and systems", "Software for automation of design of radio-electronic devices".

#### **Experience in International or National Projects:**

-

### **RESEARCH ACTIVITIES:**

#### **Main Research Areas:**

Design of biomedical engineering tools, autonomous power supply of biomedical equipment, electroacoustic transducers.

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

Over 50 scientific publications.

#### **Monographs, Textbooks:**

-

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

Participated in various scientific and practical conferences. Repeatedly participated in the international scientific and practical conference "Information systems and technologies in medicine".

### **TEACHING ACTIVITIES:**

#### **Courses Taught:**

"Diagnostic and therapeutic devices and systems, "Electronics and Circuit Engineering", "Design of means and technologies of biomedical engineering", "Software tools for automating the design of radio electronic devices", "Computer graphics of radio engineering".

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

-

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

1. Олійник В.М., Куліш С.М., Бабаков М.Ф. Основи проектування біомедичних засобів [Електронне видання] : навч. посіб. / В.М. Олійник, С.М. Куліш, М.Ф. Бабаков - Харків: Нац. аерокосм. ун-т ім. М.Є. Жуковського «Харків. авіац. ін-т», 2022. – 121 с.
2. Основи технології та конструювання біомедичних засобів [Електронний ресурс] : навч. посіб. до практ. робіт / В. М. Олійник, С. М. Куліш, В. П. Олійник, Ю. А. Волошин, О. М. Зінченко – Харків : Нац. аерокосм. ун-т ім. М. Є. Жуковського «Харків. авіац. ін-т», 2023. – 157 с.
3. Основи технології та проектування біомедичних засобів [Електронний ресурс] : навч. посіб. до виконання комплексного курс. проекту / М. Ф. Бабаков, Ю. А. Волошин, О. М. Зінченко, С. М. Куліш, В. М. Олійник, В. П. Олійник. – Харків : Нац. аерокосм. ун-т ім. М. Є. Жуковського «Харків. авіац. ін-т», 2023. –



79 с.

Методичні рекомендації з підготовки та оформленню кваліфікаційних випускних робіт студентів. Для студентів усіх форм навчання зі спеціальностей 163 та 172 [Текст] : навч. посіб. / В.М. Олійник, В.П. Олійник, С.М. Куліш. – Харків: Нац. аерокосм. ун-т ім. М.Є. Жуковського «Харків. авіац. ін-т», 2021. – 108 с.».

## GRANTS AND PROJECTS:

**Participation in International and National Projects:**

-

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

-

## PROFESSIONAL ACHIEVEMENTS AND AWARDS:

**Honorary Titles:**

-

**Distinctions, Awards, Prizes:**

-

**Membership in Professional Associations:**

Member of public organization “All-Ukrainian Association of Biomedical Engineering and Technology”.

## INTERNATIONAL ACTIVITIES:

**Internships:**

-

**Cooperation with Foreign Universities:**

-

**Teaching/Lecturing Abroad:**

-

## SELECTED PUBLICATIONS:

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

1. Publication Title: 2021 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS)

Article Title: Information-wave interactions of ultra-low intensity electromagnetic fields with biological systems

Author(s): Mrs. Yuliia Voloshyn, Mr. Sergii Kulish and Mr. Vjacheslav Oliynyk 487- 493p

2. Вплив енеговтрат імплантата з бездротовим живленням на тепловий стан організму [Текст] / В. П. Олійник, Д. В. Теличко, В. М. Олійник // Радіоелектронні і комп'ютерні системи: Науково-технічний журнал – Х.: Нац. аерокосм. ун-т „Харк. авіац. ін-т”, 2021, №3 (99). – С. 114 – 124. Doi: 10.32620/reks.2021.3.09

3. Oliynyk, V., Babakov, M., Lomonosov, Y., Oliynyk, 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>

4. Oliynyk, V. P., Voloshyn, Y. A., Zinchenko, O. M, Kulish, S. M, Oliynyk, 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>

5. Ефективність ортогональних перетворень при обробці біомедичних зображень / Ю. Ломоносов, В. Олійник, О. Каданер. - Scientific Review. 2024, № 3(95). с.6 -18. DOI:10.26886/2311-4517.





**Books, Chapters in Collective Monographs:**

-

**Links to Citation Database Profiles:**

-

**ADDITIONAL INFORMATION:**

**Language Proficiency:**

Ukrainian – native language.

English - average level of written and oral proficiency.

**IT Skills:**

Electronic equipment design skills in CAD: AutoCAD, КОМПАС, PCAD.

**Social and Community Activities:**

-

