Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**OLEKSANDR YURCHENKO**
Address(es)	Sumy, Ukraine
Telephone(s)	Mobile: + 38 0966106782
Fax(es)	
E-mail	aleksyurchenko110917@gmail.com
Nationality	Ukrainian
Date of birth	17.06.1998
Gender	Male

Current employment / Occupational field

P.h.D, Assoc. Prof., Head of the Department of Energy and Electrical Engineering, Sumy National Agrarian University.

Work experience

Dates	01.02.2021 till now
Occupation or position held	Assoc. Prof. – SUMY NATIONAL AGRARIAN UNIVERSITY

Education and training

Dates	01.09.2015 – 30.06.2019
Title of qualification awarded	BACHELOR OF SCIENCE
Principal subjects/occupational skills covered	ELECTRICAL ENERGETICS, ELECTRICAL ENGINEERING AND ELECTROMECHANICS
Name and type of organisation providing education and training	Sumy National Agrarian University, Ukraine
Level in national or international classification	Dipl. Ing. (University)

Dates	01.09.2019 – 28.12.2020
Title of qualification awarded	MASTER OF SCIENCE
Principal subjects/occupational skills covered	ELECTRICAL ENERGETICS, ELECTRICAL ENGINEERING AND ELECTROMECHANICS
Name and type of organisation providing education and training	Sumy National Agrarian University, Ukraine

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Level in national or international classification	Dipl. Ing. (University)
Dates	01.09.2019 – 28.12.2020
Title of qualification awarded	MASTER OF SCIENCE
Principal subjects/occupational skills covered	AGRICULTURAL ENGINEERING
Name and type of organisation providing education and training	Sumy National Agrarian University, Ukraine
Level in national or international classification	Dipl. Ing. (University)
Dates	01.10.2021 – 15.05.2025
Title of qualification awarded	PHD STUDY
Principal subjects/occupational skills covered	FACULTY OF TECHNICAL SYSTEMS AND ENERGY EFFICIENT TECHNOLOGIES
Name and type of organisation providing education and training	Sumy State University, Ukraine
Level in national or international classification	

Personal skills and competences

Reliability, loyalty, sociability, energy, purposefulness

Mother tongue(s): Ukrainian

Other language(s): English, Russian

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Basic User	B2	Basic User	B2	Basic User	B2	Basic User	B2	Basic User
Russian	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user

Digital skills: Video conferencing experience (Zoom, Skype), KOMPAS Video Editors (Video maker)

Additional information:

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Scientific Research Topic and Publications

1. Sklabinskyi, V.; Liaposhchenko, O.; Piteľ, J.; Pavlenko, I.; Skydanenko, M.; Ostroha, R.; Yukhymenko, M.; Simeiko, K.; Demianenko, M.; Volf, M.; et al. Experimental Studies and Condition Monitoring of Auxiliary Processes in the Production of Al2O3 by Sol-Gel Technology. Processes 2022, 10, 2090. https://doi.org/10.3390/pr10102090
2. Yurchenko, O., Ostroha, R., Sklabinskyi, V., Gusak, O., Bocko, J. (2023). Formation of Liquid Droplets at the Prilling Bucket Outlet Under Free Oscillations of the Liquid Jet. In: Ivanov, V., Pavlenko, I., Liaposhchenko, O., Machado, J., Edl, M. (eds) Advances in Design, Simulation and Manufacturing VI. DSMIE 2023. Lecture Notes in Mechanical Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-32774-2_18
3. Yurchenko, O., Radchuk, O., Barsukova, H., Savchenko-Pererva, M., Ivchenko, O., Kolodnenko, V., & Fesenko, D. (2023). Determining a model of the blade in a wind turbine for regions with low wind speeds. Eastern-European Journal of Enterprise Technologies, 2(8 (122), 44–52. https://doi.org/10.15587/1729-4061.2023.277896
4. Yurchenko, O., Barsukova H., Savchenko-Pererva, M., Development of a low-speed wind turbine with a low axis of rotation for areas with low wind speeds / O. Yurchenko, H. Barsukova, M. Savchenko-Pererva // Materials of 4th International Conference on Sustainable Manufacturing, Materials and Technologies Coimbatore, Tamil Nadu, India. 11-12 June 2022. – 2022.
5. Yurchenko O., Sklabinskyi V., Ochowiak M., Ostroha R., Gusak O. (2022). Rational choice of a basket for the rotational vibropriller. Journal of Engineering Sciences, Vol. 9(1), pp. F16-F20, doi: 10.21272/jes.2022.9(1).f3
6. Yurchenko, O. Y., Barsukova, H. V., & Tymoshenko, G. A. (2022). DEVELOPMENT OF A WIND POWER PLANT BLADE FOR AREAS WITH LOW WIND SPEED. Bulletin of the Sumy National Agrarian University. Series: Mechanization and automation of production processes, (2(48), 94-100. https://doi.org/10.32845/msnau.2022.2.14
7. Yurchenko, O. Y., & Kolodnenko, V. M. (2022). TEKRONE COMPOSITE DUMPS ARE AN ALTERNATIVE FOR MODERN AGRICULTURAL EQUIPMENT. Bulletin of the Sumy National Agrarian University. Series: Mechanization and automation of production processes, (2(48), 101-106. https://doi.org/10.32845/msnau.2022.2.15
8. Yurchenko, O., & Barsukova, H. (2023). THE PROCESS OF RECOVERY OF THE ACCUMULATORY BATTERY WITH A COMPLEX APPROACH. Scientific Bulletin of the Tavri State Agricultural Technological University, 13(1). https://doi.org/10.31388/sbtsatu.v13i1.385
9. Yurchenko, O., & Barsukova, H. (2023). USE OF PULSE ELECTRIC FIELD AS A WAY OF IMPROVING SEED QUALITY INDICATORS. Scientific Bulletin of the Tavri State Agricultural Technological University, 13(1). https://doi.org/10.31388/sbtsatu.v13i1.391
10. Yurchenko, O., Livenko, T., Matveev, O., Berkut, R., & Bugayov, V. (2023). TECHNOLOGY OF REPAIR OF ELECTRIC MOTORS FOR DIFFERENT PURPOSES. Scientific Bulletin of the Tavri State Agricultural Technological University, 13(2). Retrieved from https://oj.tsatu.edu.ua/index.php/visnik/article/view/433
11. Yurchenko, O. Y., & Barsukova, H. V. (2021). USING A FREQUENCY CONVERTER IS AN EFFECTIVE AND CONVENIENT WAY OF REGULATING THE SPEED OF THE PUMP UNIT. Bulletin of the Sumy National Agrarian University. Series: Mechanization and automation of production processes, (3 (45), 57-63. https://doi.org/10.32845/msnau.2021.3.8
12. Yurchenko, O., Barsukova, H., Chepizhny A., Zubko V., Tymoshenko G. (2023). SEARCH FOR THE LOCATION OF DAMAGE TO THE ELECTRICAL EQUIPMENT WINDING DUE TO A CHANGE IN THE WORKING TEMPERATURE. Proceedings of TDATU, 2023. Issue 23. Volume 2 DOI: 10.31388/2078-0877-2023-23-2-167-176
13. Yurchenko O. Y., Sklabinskyi V. I., Husak O. G. (2023). INFLUENCE OF HYDRODYNAMIC AND MECHANICAL FACTORS ON THE FORMATION OF GRANULES IN A GRANULATION TOWER USING A ROTATING VIBRATING GRANULATOR. Proceedings of TDATU, 2023. Issue 23. Volume 1 DOI: 10.31388/2078-0877-2023-23-1-96-103
14. Yurchenko O. Y., Sklabinskyi V. I., Husak O. G. (2023). METHOD OF EXPERIMENTAL STUDY OF THE SPRAY TORCH AT THE EXIT OF THE BASKET OF A ROTARY VIBRATING GRANULATOR. No. 1(88) (2024): Bulletin of the Kherson National Technical University. https://doi.org/10.35546/kntu2078-4481.2024.1.19
15. Sklabinsky, V. I., Husak, O. G., Yurchenko, O. Y., & Nichvludan, K. V. (2024). HYDRODYNAMICS OF FLOAT MOVEMENT IN THE INTERNAL SPACE OF A ROTATING VIBRATING GRANULATOR (OVG). Bulletin of the Sumy National Agrarian University. Series: Mechanization and automation of production processes, (2 (56), 73-78. https://doi.org/10.32782/msnau.2024.2.10
16. Sklabinskyi V.I., Husak O.G., Yurchenko O.Y., Nichvludan K.V. (2024) Peculiarities of arrangement of several rotating vibrating granulators (OVG) in one granulation tower. Proceedings of TDATU, 2024. Issue 24. Volume 3 DOI: 10.32782/2078-0877-2024-24-3-4
17. Yurchenko O.Y., Voloshko T.P. Methods of control and settlement of difficult situations in transport due to violations of the permissible carrying capacity of the vehicle during the transportation of grain (accepted for consideration, Bulletin of the Kherson National Technical University).
18. Yurchenko O.Y., Barsukova H.V. Peculiarities of turning on electric motors for parallel operation during process automation in agriculture (accepted for publication, Bulletin of the Sumy National Agrarian University).
19. Nichvolodin, K., Sklabinskyi, V., & Yurchenko, O. (2024). Determination of the temperature of mineral fertilizer granules after contact with the air in a granulation tower. Technology Audit and Production Reserves, 4(3(78), 28–32. https://doi.org/10.15587/2706-5448.2024.310855
20. Yurchenko, O. Yu., & Voloshko T.P. (2025). Functioning of plastic pedestrian mannequins in the framework of attracting the attention of drivers when driving on pedestrian crossings. Volume 1, No. 1(92) (2025): Bulletin of the Kherson National Technical University. Section: Engineering Sciences. DOI: https://doi.org/10.35546/kntu2078-4481.2025.1.1.40

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Scientific Research Topic and Publications

21. Ryasna O.V., Savoyskyi O.Yu., Kravchenko V.O., Kozin V.M., Yurchenko, O.Yu. (2025). Scalar control method asynchronous electric drives in the water supply system. Volume 1, No. 1(92) (2025): Bulletin of the Kherson National Technical University. Section: Engineering Sciences. DOI: https://doi.org/10.35546/kntu2078-4481.2025.1.1.26

24. Yurchenko, O. Yu., Barsukova, G. V., Chepizhny, A. V., & Ivchenko, O. V. (2025). SOLAR POWER PLANTS ON PUBLIC ROADS AS A WAY TO IMPROVING ENVIRONMENTAL SAFETY. Bulletin of the Sumy National Agrarian University. Series: Mechanization and Automation of Production Processes, (2), 75-80. https://doi.org/10.32782/msnau.2025.2.12

23. Yurchenko O.Y., Barsukova H.V., Romanenko M.O. functional features of the tool for the preparation of electric current conductors during installation of electrical equipment and repair of electrical devices (accepted for publication, Scientific Bulletin of TDATU 2024, Issue 14, Volume 1).

24. Yurchenko O. Y. Feasibility of introducing alternative energy in Ukraine, features and rates of development. The 7th International scientific and practical conference "Fundamental and applied research in the modern world" (February 17-19, 2021) BoScience Publisher, Boston, USA. 2021. 669 p.

25. Yurchenko O. Yu., Barsukova H. V. Current situation of energy industry of Ukraine: industries, percentages, competitiveness. The 7th International scientific and practical conference "Fundamental and applied research in the modern world" (February 17-19, 2021) BoScience Publisher, Boston, USA. 2021. 669 p.

26. Theoretically about the design of windings of electric motors with the possibility of improving their characteristics / O. Yu. Yurchenko, G. V. Barsukova, K. V. Moroz, M. S. Novikov, M. O. Shchebetenko // Scientific Bulletin of the Tavria State Agro-Technological University. Technical Sciences: Electronic Scientific Professional Edition. / TSATU; Chief Editor Dr. of Engineering, Prof. V. M. Kyurchev. Zaporizhzhia: Publishing House "Helvetica", 2025. Issue 15, vol. 2. P. 213-219. DOI: https://doi.org/10.32782/2220-8674-2025-15-2-25

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Patents:

1. Wind wheel of a vertical-axis wind turbine: patent. U202301683. Ukraine. 04/14/2023 - Yurchenko Oleksandr Yuriyovych, Barsukova Anna Volodymyrivna, Tymoshenko Hryhoriy Andriyovych, Chepizhnyy Andriy Volodymyrovych, Kolodnenko Vitaly Mykolayovych. Sumy National Agrarian University, 40021 Sumy, st. G. Kondratiev, b. 160 (The application has been paid and a number has been assigned)
2. Training stand for installation of electric power equipment: patent. No. U202302877. Ukraine. 04/14/2023 - Yurchenko Oleksandr Yuriyovych, Barsukova Hanna Volodymyrivna, Tymoshenko Hryhoriy Andreyovych. Sumy National Agrarian University, 40021 Sumy, str. G. Kondratiev, b. 160 (The application has been paid and a number has been assigned)
3. Heat pump installation of the solar-water type for individual heating systems. No. 156502, application no. u202305604. Ukraine. Registered in the State Register 04.07.2024.
4. Method of diffusion chromium-vanadium plating of steel u8a. No. 156872, application no. u202306077. Ukraine. Registered in the State Register 15.08.2024.

Methodical work Manuals

O.Y. Yurchenko, H.V. Barsukova, A.V. Chepizhnyi, G.A. Tymoshenko // Installation of electrical equipment and control systems. Installation of electric motor control boards // Educational and methodological guide for students of education 2, 1 st. specialty courses: "Electrical power engineering, electrical engineering and electromechanics" of the engineering and technology faculty of full-time and part-time study, SVO "bachelor". – Sumy: SNAU, 2023. – 144 p. (Educational and Methodological Council of SNAU Protocol No. 2 dated 12.12.2023, Academic Council of SNAU Protocol No. 8 dated 12.27.2023)

Projects Experience:

1. International Summer school. Improving digital competences in virtual education: challenges in times of crisis. Weihenstephan-Triesdorf, 2022-09-16
2. Sumy State University, advanced training courses "Specialist in physical and mechanical testing"/materials science. 3.06-15.06 2022
3. Sumy State University, advanced training courses "Modern information technologies for control and management of industrial processes based on the Arduino platform"/automation, assembly, electronics. 28.06-2.07 2022
4. 4th International Conference on Sustainable Manufacturing, MateriaTechnically Sponsored by AIP Conference Proceedingsls and Technologies Coimbatore / Сертифікат C.No. ICSMMT/2022/CERT/058
5. Advanced qualification/internship in Lubnymash (April - May 2023).
6. Seminar "Digital Pedagogy and Human Potential Development", April 24, 2025 6 hours/0.2 ECTS
7. International webinar on ‘Renewable energy sources: key economic aspects of enterprise energy security’ organized by HSWT (Germany) and SNAU (Ukraine) with the support of DAAD, which was held from 14 to 18 April 2025. The total academic load is 1.5 ECTS
8. EIT Higher Education Initiative. Use of artificial intelligence in modern energy systems. 3/11/2025 and 14/11/2025
9. International remote scientific and pedagogical internship. «The use of artificial intelligence capabilities in preparing higher education students in the fields of computer science and software engineering: international experience». Lublin. Republic of Poland. 180 hours/6 ECTS
10. International internship between 12.11.2025 and 19.12.2025, organized in the framework of the development project "AgriSci-UA Platform: Strengthening Research Capacities and Deepening Collaboration Among Ukrainian Universities in Agricultural Sciences ". Online learning: from November 12 to December 14, 2025. Short-time mobility visit to CZU: from December 15 to December 19, 2025. Learning result: development of professional competencies. Certificate number: AW2025/012. 180 hours/6 ECTS
11. Advanced training courses at the National University of Bioresources and Environmental Management of Ukraine "Automation and Robotization of Agricultural Production". 60 hours/2 credits. 60 hours/2 ECTS

Annexes

Grant, state budget and contract subjects:

SBT:
State registration number: 0120U102036, Creation of new granular materials for nuclear fuel and catalysts in an active hydrodynamic environment

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