Name	Dmytro Sokol
Position, Department/Faculty	Associate Professor of the Department of Aircraft Control Systems
Academic Degree	Ph.D.
Email:	d.sokol@khai.edu
Scopus Author ID:	57486396100
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ResearchGate:	https://www.researchgate.net/profile/Dmytro-Sokol?ev=prf_overview

EDUCATION:

Basic education (university, major, year of graduation):
Bachelor in System Engineering
National Aerospace University "Kharkiv Aviation Institute" [01/09/2012 – 30/06/2016]

Master in Automation and Computer Integrated Technology
National Aerospace University "Kharkiv Aviation Institute" [01/09/2016 – 28/02/2018]

Postgraduate/Doctoral studies:

PhD in Avionics
National Aerospace University "Kharkiv Aviation Institute" [15/02/2024]

Additional training, certification programs:
Certificate of Participation in the online course:
International skills development (webinar) "Interactive Technologies of Blended Learning in the Training of Bachelor's and Master's Degrees in the Countries of the European Union and Ukraine" [10/07/2023 – 17/07/2023]
Training course "A great course on AI in education." [26/05/2025 – 09/06/2025]

WORK EXPERIENCE:

Associate Professor of the Department of Aircraft Control Systems, *National Aerospace University "Kharkiv Aviation Institute"* [2024 – present] research activity, teaching (Autonomous Navigation System Design, Aircraft Control Systems, Fundamentals of Designing Autonomous Navigation Systems), scientific supervision of graduation theses (bachelor and master).

Assistant of the Department of Aircraft Control Systems, *National Aerospace University "Kharkiv Aviation Institute"* [2018 – 2024] research activity, teaching (Autonomous Navigation System Design, Automatic Control Theory, Fundamentals of Designing Autonomous Navigation Systems), pre-university career guidance and outreach work.

RESEARCH ACTIVITIES:

Main Research Areas:

Automatic Control, Rational Control, Model-based Design.

Number of Publications (Scopus, WoS, others):

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

Monographs, Textbooks:

Co-author of 1 monograph and 2 textbooks in the fields of avionics and control systems.

Participation in Scientific Conferences:

Regular participant and speaker at international and national scientific conferences on control systems, aircraft transport, mathematical modeling, and simulation of systems.

TEACHING ACTIVITIES:

Courses Taught:

Autonomous Navigation System Design, Aircraft Control Systems, Fundamentals of Designing Autonomous Navigation Systems.

Author Courses, Academic Programs:

Author of the course "Autonomous Navigation System Design", "Fundamentals of Designing Autonomous Navigation Systems".

Methodological Materials, Textbooks:

Co-author of textbooks in the field of avionics.
Developed electronic resources and video materials for hybrid and online teaching (Moodle).

SELECTED PUBLICATIONS:

Kulik, A., Dergachov, K., Pasichnik, S., Sokol, D. Rational control of the temperature of vortex energy separator under destabilizing influence. Radioelectronic and Computer Systems, 2022, no. 3(103), pp. 47-66. https://doi.org/10.32620/reks.2022.3.04

Anatoliy S. Kulik, Sergey N. Pasichnik, Dmytro V. Sokol, Investigation of stationary processes in vortex energy separator through its computational fluid dynamics model. Mathematical Modeling and Simulation of Systems. Selected Papers of 16th International Scientific-practical Conference, MODS, 2021 June 28–July 01, Chernihiv, Ukraine. https://doi.org/10.1007/978-3-030-89902-8_8

A. Kulik, S. Pasichnik, A. Zymovin and D. Sokol, "Functional States Diagnosing in Vortex Energy Separator Under Rational Control," 2023 IEEE 7th International Conference on Methods and Systems of Navigation and Motion Control (MSNMC), Kyiv, Ukraine, 2023, pp. 126-131. https://doi.org/10.1109/MSNMC61017.2023.10329124

Kulik, A., Sokol, D., Wei, S. (2025). Research and Implementation of Flight Performance Optimization Based on Dynamic Control Strategies for Cyclorotor. In: Lytvynov, O., Pavlikov, V., Krytskyi, D. (eds) Integrated Computer Technologies in Mechanical Engineering - 2024. ICTM 2024. Lecture Notes in Networks and Systems, vol 1473. Springer, Cham. https://doi.org/10.1007/978-3-031-94845-9_33

Books, Chapters in Collective Monographs:

Rational control of dynamic objects under uncertainty of destabilizing influences : monograph / I. Bychkova, V. Bilozerskyi, O. Havrylenko, et al. Kharkiv: National Aerospace University "Kharkiv Aviation Institute".

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian, English

Skills:

MATLAB / Simulink / SolidWorks / STM32CubeIDE / Git