Nikolai Lisachenko

Profile

RF Engineer specializing in MRI technology and radiofrequency systems. Expert in numerical modeling, experimental research, and innovative antenna design for medical imaging.

Education

Master of Science, ITMO University, Saint Petersburg

APRIL 2022 — AUGUST 2024

Major in radiotechnics

Master's thesis title: "Design of a broadband antenna based on a leaky wave for multi-nuclear spectroscopy at 7T field MRI"

Bachelor of Science, Voronezh State University, Voronezh

SEPTEMBER 2018 — JULY 2022

Major in radiophysics

Bachelor's thesis title: "Numerical simulations of bore-integrated arrays for 7T MRI"

Employment History

Junior Research Engineer, ITMO University, Saint Petersburg

AUGUST 2022 — PRESENT

- Design of a broadband antenna based on a leaky wave for multi-nuclear spectroscopy at 7T field MRI
- Development of Bore-Integrated Patch Antenna Array for 7 Tesla field MRI
- Development of phantom for microwave breast imaging
- Design and assembling of GNSS antenna

Internships

Junior Research Engineer, ITMO University, Saint Petersburg

JUNE 2022 — AUGUST 2022

Publications

Numerical Investigation of Bore-Integrated Patch Antenna Array for 7 Tesla MRI, by Svetlana S. Egorova, Egor Kretov, Nikolai Lisachenko, Stanislav B. Glybovski, and Georgiy A. Solomakha, 2023 Antennas Design and Measurement International Conference (ADMInC), pp. 45-47, DOI:10.1109/ADMInC59462.2023.10335276

References

Dr. Georgiy Solomakha, Research Fellow from MPI for Biological Cybernetics, Tuebingen, Germany

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Prof. Stanislav Glybovski, Leading Research Fellow from ITMO University, Faculty of Physics, Saint Peterburg, Russia

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Details

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Links

Google Scholar

Researcher ID: KFB-1200-2024

Skills

Matlab

Python with Visual Code Studio/Google Colab

Soldering

CST Microwave Studio

QucsStudio

Wolfram Alpha

Altium Designer

Radiant

Languages

English

Russian

Tools

Vector Network Analyzer
Spectrum analyzer
CNC programmed coordination table
Power supplies
Dielectric assessment kit
3D printers
Soldering stations
Milling cutter
Angle grinder
Jigsaw
Graver