

Dimitrii Nikishin

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EDUCATION

- 2025 – Present Master of Science Candidate in Semiconductor Engineering
Seoul National University of Science and Technology, Seoul, South Korea
- 2021 – 2025 Bachelor of Science in Radio Engineering
Samara National Research University, Samara, Russia
Bachelor's Thesis - Autonomous vehicle vision system

RESEARCH EXPERIENCES

Research Assistant, Dept. of Electronic Engineering, Seoul National University of Science and Technology. Advisor: Jae-Won Nam (2025.12 ~ Present)

- CMOS Ising Machine.
- Programming Language : Verilog HDL, C.
- EDA Tools : Cadence OrCAD, Multisim , Micro-Cap , P-CAD 2006, Altium Designer, KiCad, Microwave Office, Xilinx Vivado, GOWIN EDA, Altera Quartus, SolidWorks, Autodesk Inventor, Kompas 3D.

WORK EXPERIENCES

2023(January) - 2025(July), **Electronics Engineer**, URARTU Systems, Samara, Russia.

- Development of a converter from the ARINC 429 aviation interface to the Modbus RTU industrial protocol.
- Design of a breakout box for an automobile steering rack test bench.
- Design of a control board for high-power servomotors for the test benches.
- Development of RTL code for FPGA, providing data collection and transfer between electronic blocks of the HIL system.
- Development of a high-speed electronic dynamometer based on FPGA.

2023(December) - 2024(October), **Electronics Engineer**, TotalZ, Samara, Russia.

- Design of an acetone vapor bath controller PCB for the post-processing of 3D print's surface.
- Development of a custom ST-LINK programmer with galvanic isolation over USB.
- Eliminating electromagnetic interference (EMI) from a 3-phase motor in an industrial 3D printer.

2022(November) - 2023(January), **Laboratory Assistant**, Space Instruments Engineering Institute (IKP-214), Samara, Russia.

- Development of on-board electronics for a spacecraft using Russian electronic components (Schematic).
- Design of a metal case for scientific equipment for the ISS.

HONORS / AWARDS

- GKS-G 2025 scholarship recipient, NIIED, Jul, 2025.
- Language Proficiency: Korean (TOPIK II – Level 5)

LIST OF PUBLICATIONS

- **D. Nikishin**, A. Kulikov, “Development of ARINC 429 interface converter to ModBus RTU protocol,” *Actual problems of radio electronics and telecommunications: materials of the All-Russian scientific-technical conf.*, Russia, Apr. 2024.
- V. Fomin, **D. Nikishin**, A. Kumarin, “Development of a control unit for a station for receiving telemetry from small stratospheric and spacecraft,” *XVII Korolev Readings: All-Russian youth scientific conference with international participation, dedicated to the 35th anniversary of the first flight of the Energia-Buran spacecraft*, Russia, Oct. 2023.
- G. Cheppel, **D. Nikishin**, O. Salmanova, “Flight data analysis of the experimental rocket "Volga",” *XVII Korolev Readings: All-Russian youth scientific conference with international participation, dedicated to the 35th anniversary of the first flight of the Energia-Buran spacecraft*, Russia, Oct. 2023.

PATENTS

- **D. Nikishin**, “Mobile Support and Rotation Device for Antenna Orientation, Patent number: RU230594U1

TRAINING ACTIVITIES

- 2024.12.16-12.17, [IDEC Education] Digital circuit design (front-end/back-end)
- 2023.09.18-2024.06.28, [Institute of Continuing Education, Samara University] Professional Retraining Program in “CAD/CAE Technologies”