

Denis Kotin

Date of birth: 30.05.1984

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EDUCATION

- 07/2007 - 11/2010 **Novosibirsk State Technical University (NSTU), *Postgraduate program***
- Candidate of Technical Sciences degree with a specialization in Electrotechnical complexes and systems, code 05.09.03 (equivalent to PhD degree in Engineering)
 - Dissertation title "Adaptive algorithms of sensorless vector control for induction motor electric drives of handling machinery"
- 09/2005 – 06/2007 **Novosibirsk State Technical University (NSTU), Electromechanical Faculty, *Masters program***
- MSc degree in Engineering and Technology with a specialization in Electrical Engineering, Electromechanics and Electrical technologies
 - Majors: Electric Drive and Industry Automation
- 09/2001 - 06/2005 **Novosibirsk State Technical University (NSTU), Electromechanical Faculty, *Bachelors program***
- BSc degree in Engineering and Technology with a specialization in Electrical Engineering, Electromechanics and Electrical technologies

PROFESSIONAL EXPERIENCE

- 04/2015 –B present **Novosibirsk State Technical University (NSTU), Department of Electric Drive and Industry Automation, *Head of the Department***
- 09/2011-04/2015 **Novosibirsk State Technical University (NSTU), Department of Electric Drive and Industry Automation, *Associate Professor***
- 09/2007-08/2011 **Novosibirsk State Technical University (NSTU), Department of Electric Drive and Industry Automation, *research assistant***
- 11/2006-04/2015 **CJSC "Erasib", Novosibirsk, *development project engineer***

ADVANCED TRAINING

- 04/2014 – 05/2014 "Modern methods and facilities for developing of energy efficiency technologies", NSTU
- 10/2012 "Building a candidate talent pool: management of higher education institution in modern conditions, development trends, problems and approaches to their solution", NSTU

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TRAINING ABROAD

- 04/2013 Technical University of Sofia, Sofia (Bulgary)
10/2012 Blaise Pascal University, Clermont-Ferrand (France)

RESEARCH AND ACADEMIC EXPERIENCE

- Lectures, practical and laboratory works for full- and part-time Bachelor and Master students of the Faculty of Mechatronics and Automation at NSTU specializing in:
 - "Electrical power engineering and electrical engineering", code 13.03.02 - (program unit: Electrical Engineering, major: Electric drive and automation of industrial facilities and technological complexes),
 - 13.04.02 - "Electrical power engineering and electrical engineering", code 13.04.02 (program unit: Electrical Engineering, major: Mechatronic and automated complexes and systems).
- Courses taught:
 - "Introduction to the course", "Automatic control of electric drives", "Automatic electrical drive of conventional industrial machineries", "Automatic control of mechatronic systems".
- Supervision of full- and part-time graduate (BSc, Diploma and MSc) students.
- Supervision of postgraduate students.
- Peer-review of research papers for the international journal "Applied Mechanics and Materials" (Switzerland), and the international conference "International Forum on Strategic Technology" (IFOST).

ENGINEERING EXPERIENCE (as development project engineer at CJSC "Erasisb", Novosibirsk, 2006-2015):

- Project development, setup, and introduction into service of controlled AC electric drive systems with low and high voltage frequency converters on IGBT transistors for squirrel-cage induction motors, wound-rotor induction motors, permanent-magnet synchronous motors.
- Project development, setup, and introduction into service of thyristor converters for DC electric drives.
- Project development, setup, and installation of DC/DC transistor converters.
- Development of operations manuals for all products of CJSC "Erasisb". Development of programs for and training of personnel from industrial enterprises in the work with modern converters.
- Participation in the projects of State Defense Procurement:
 - Development of design and technical requirements, specifications, preliminary, acceptance and interdepartmental testing procedures.
 - Carrying-out of preliminary, acceptance and interdepartmental tests with the participation of representatives from the Ministry of Defense of the Russian Federation. Execution of technical documentation, product test reports for State Defense Procurement.

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ENGINEERING PROJECTS

Project development, setup, and introduction into service of frequency converters for:

- cement production,
- rotary pumps and blowers for housing and public utilities sector,
- electric power industry, gas compressor stations,
- Russian Railways,
- main motion mechanisms of cutting machines, hoisting cranes, mine winders.

FELLOWSHIPS

- 2013-2015 Participation in the grant project of Russian Foundation for Basic Research, No.13-07-00081-A “Development of the adaptive information and control system for stabilization of the aerostatic bearing rotor attitude in nanometer precision”
- 2012-2013 Participation in the grant project of Federal Targeted Programme, No.14.B37.21.1288 “Development of laser technology for generation of angle-measuring structures based on 3D phase grating”

FOREIGN LANGUAGES English (conversation, correspondence with foreign researchers and partners, reading of scientific and technical literature)

OTHER SKILLS MS Office, MatLab, MathCAD, P-Cad, Altium