

PERSONAL INFORMATIONFirst name(s)/Surname(s) **Nguyen Hoang Viet**

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Nationality(-ies) Viet Nam

Date of Birth 15 – 03 – 1988

Sex Male

EDUCATION BACKGROUND

2006– 2011 Student in Hanoi University of Science and Technology, field of study: Control Engineering and Automation.

2011 – 2013 Master student in Hanoi University of Science and Technology, field of study: Control Engineering and Automation

2015 -2016 Student in Pitesti University, field of study: Romania language.

2016 – present PHD in Petroleum and Gas University of Ploiesti, field of study: Engineering Science – Systems engineering.

WORK EXPERIENCE

2011 – 2013 Research at HIGH-TECH centre Hanoi University of Science and Technology

2014 – present Lecturer at Hanoi University of Business and Technology

MOTHER TOUNGE

Vietnamese

OTHER LANGUAGE

Romania, English

TECHNICAL SKILLS AND COMPETENCES

- Research design active filter used harmonic compensation for grid
- Research application of matrix converter in controller power flow for smart grid
- Flexible AC transmission systems – FACTS: STATCOM, UPFC.
- Analysis and Simulation of the Auxiliary Resonate Commutated Pole Inverter
- Multilevel Voltage Source Converters: Cascaded H – Bridge Multilevel, Diode – Clamped Multilevel Inverters, Neutral Point Clamped Inverter.
- Control of the back to back converter
- Control structure of Induction Motor: FOC, DTC, PTC.
- Research of converters application in system Stand – alone solar photovoltaic or system Hybrid solar photovoltaic.
- Power electronic converters Modelling: Switched Model, Classical Averaged Model, Generalized Averaged Model
- Variable structure control – Sliding mode control, Adaptive Control, Model Predictive Control, neural networks and fuzzy system

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COMPUTER SKILLS AND
COMPETENCES

Computer programming languages: MATLAB, C, Python, HTML, CSS.
Programming with PIC, DSPIC, DSP-TMS3202812.

SCIENTIFIC PAPERS
PUBLICATIONS

1. Nguyen Hoang Viet, Nicolae Paraschiv, "The Capacitor Voltage Balancing Problem in FS-PTC for Induction Motor fed by 3L-NPC Inverter," *2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE)*, Galati, Romania, 2019, pp. 1-5, doi: 10.1109/ISEEE48094.2019.9136166.
2. Nguyen Hoang Viet, Nicolae Paraschiv, "Finite State Predictive Torque Control with Switching Table for Induction Motor Drive," *2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE)*, Galati, Romania, 2019, pp. 1-6, doi: 10.1109/ISEEE48094.2019.9136136.
3. Nguyen Hoang Viet, Nicolae Paraschiv, "Finite State Predictive Torque Control with Switching Table for Induction Motors Fed by 3L-NPC Inverter," *2019 23rd International Conference on System Theory, Control and Computing (ICSTCC)*, Sinaia, Romania, 2019, pp. 73-78, doi: 10.1109/ICSTCC.2019.8885640.
4. Nguyen Hoang Viet, Vu Minh Hung, Nicolae Paraschiv, "FS-PTC with Switching Table for Matrix Converter in Induction Motors Drive System," *2019 International Symposium on Electrical and Electronics Engineering (ISEE)*, Ho Chi Minh, Vietnam, 2019, pp. 298-303, doi: 10.1109/ISEE2.2019.8921128.

