CURRICULUM VITAE

**NGUYEN PHUOC LOC, M.S.**

Master of Electrical Engineering (Power Electronic)

Lecturer in Vinh long University of Technology Education

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**EDUCATION:**

09/2014-03/2019 Graduated with a major in electrical and electronic engineering at Vinh Long University of Technology and Education.

10/2019-12/2021 Graduated master of electrical engineering at Vinh Long University of Technology and Education.

02/2021 - present: Bachelor’s degree in English at Mekong University, Vietnam.

**RESEARCH INTERESTS:**

AC motor control, Permanent magnet synchronous motor control, Renewable energy, Multi-level Inverter control, C2000 real-time microcontrollers (DSP), and Pulse with modulation techniques for power converters.

**TEACHING INTERESTS:**

Power Electronics, Microcontrollers, Measurement Systems, MATLAB application, AUTOCAD, SOLIDWORKS, Altium designer, Automation controllers, FPGA/PLD.

**INVITED LECTURES/Supervisors:**

* **Microcontrollers** at Tra Vinh Vocational College
* **Measurement Systems** at Kien Giang Vocational College
* **Power Electronic** at Kien Giang College
* **Power Electronic** at Dong Thap College
* **Power Electronic** in Binh Thuan province

**PROFESSIONAL EXPERIENCES:**

03/2019 – /2020:Lecturer of the Department of Refrigeration and Telecommunications, Faculty of Electric-Electronic.

01/2020 – present: Lecturer and secretary of the Scientific Council of the Faculty of Electrical and Electronic Engineering.

**PUBLICATIONS**

12 papers.

**Journals** (selected):

1. **Loc Phuoc Nguyen**, Hieu Bui Thanh, Thai Quoc Vo, Dung Be Thi Dao, & Nho Van Nguyen, (2021)., “A study of carrier pulse width modulation for single-phase 5-levels cascaded inverter”, Journal of Technical Education Science, (65), 1–9. https://doi.org/10.54644/jte.65.2021.131.
2. **Loc Phuoc Nguyen**, Hieu Bui Thanh, Nho Van Nguyen. (2021). “A novel five-level neutral-point-clamped inverter with an auxiliary DC source”, Science & Technology Development Journal - Engineering and Technology, 4(4), 1239-1253. https://doi.org/10.32508/stdjet.v4i4.915.
3. Bùi Thanh Hiếu, **Nguyễn Phước Lộc**, Nguyễn Văn Nhờ, (2021), “A Novel Five-Level Neutral-Point-Clamped Inverter With an Auxiliary DC Source”, The 6th Vietnam international conference and exhibition on control and automation (VCCA-2021), trang 32.
4. **Loc Phuoc Nguyen**, Thai Quoc Vo, Hieu Thanh Bui, (2022),” Perform SVPWM Modulation on STM32F411 for Two-Level Inverter”, 2022 Spring Workshop on Power Electronics and Applications-SWPEA2022, https://sites.google.com/view/swpea2022/home-en?authuser=0.
5. Thai Quoc Nguyen, Dung Be Thi Dao, **Loc Phuoc Nguyen**, (2022), “Building an experimental teaching model of PWM control for a 1-phase H-NPC bridge inverter to control an asynchronous motor”, 2022 Spring Workshop on Power Electronics and Applications-SWPEA2022, https://sites.google.com/view/swpea2022/home-en?authuser=0.
6. Tin Chung Chau, **Loc Phuoc Nguyen**, Tuan Nguyen Ngoc, Vinh Xuan Nguyen, (2022).” Research on application of noise filtering Kalman filter for accelerometer sensor on the self-propelled robot”, Scientific journal VLUTE-Topic, page 104, ISSN 2615-9945.
7. Pham Thị Mộng Tuyền, **Nguyễn Phước Lộc**, Trần Thị Ngọc Thoa, Phạm Thị Kim Thê, (2022),” Research, assessment of power loss and performance of three-level neutral-point clamped inverter sic MOSFETs”, Scientific journal VLUTE, ISSN 2615-9945.
8. **Nguyễn Phước Lộc**, Lâm Minh Dũng, Nguyễn Đức Thành, Phạm Thị Kim Thê, Lê Như Nguyện, (2021)”General simulation of the spatial vector technique of a three-phase inverter”, Scientific information Vinh Long University of Technical Education, No 02, page 46-56, ISSN 2615-9945.
9. Bùi Thanh Hiếu, Nguyễn Xích Quân, Nguyễn Thị Anh Thư, Nguyễn Hữu Thọ, **Nguyễn Phước Lộc** (2020) “Simulating mathematical models of photovoltaic elements with Matlab/Simulink”, Scientific information Vinh Long University of Technical Education, No 04, page 60-70, ISSN 2615-9945.
10. Lâm Minh Dũng, Bùi Thanh Hiếu, **Nguyễn Phước Lộc**, (2020Research on reducing switching loss control of 3-level NPC inverter”, Scientific information Vinh Long University of Technical Education, No 04, page 43-54, ISSN 2615-9945.
11. Nguyễn Xuân Vinh, Nguyễn Văn Hiếu, Nguyễn Việt Trung, **Nguyễn Phước Lộ**c, (2020), “Research on genetic algorithms applying optimization problems in engineering “, Scientific information Vinh Long University of Technical Education. ISSN 2615-9945
12. Nguyễn Việt Trung, **Nguyễn Phước Lộc**, Võ Huỳnh Trung Toàn, Phạm Thanh Tùng, (2020), “Investigation of control slip stability calculation for LMI based calculation system”, Scientific information Vinh Long University of Technical Education. ISSN 2615-9945

*Vinh Long, 27 June 2022*

**MS. Nguyen Phuoc Loc**