

# CHAN ANYAPO, D.Eng.

Assistant Professor of Electrical Engineering

Pathumwan Institute of Technology, Bangkok, Thailand



Phone: +66 84 459 2155 | Email: chan@pit.ac.th

Website: [www.anyapo.com](http://www.anyapo.com) | Expertise: Wireless Power Transfer (WPT), IoT, EV Systems

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## EXECUTIVE SUMMARY

Dedicated researcher and educator with over 15 years of experience in Electrical Engineering, specializing in **Wireless Power Transfer (WPT)** for Electric Vehicles and Their Applications. Proven track record in developing high-efficiency resonant inverters. Extensive experience in bridging academia and industry through technical training for global firms like Western Digital. Committed to advancing sustainable energy solutions and digital pedagogy in engineering education.

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## EDUCATION

**D.Eng. in Electrical Engineering** | 2022

*Kasetsart University, Thailand* Focus: Dynamic Wireless Power Transfer for Electric Vehicles

**M.Eng. in Electrical, Electronics, and Information Engineering** | 2010

*Nagaoka University of Technology, Japan* Specialization: Power Electronics and Fuel Cell Applications

**B.Eng. in Electronics and Telecommunications Engineering** | 2007

*Pathumwan Institute of Technology, Thailand*

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## ACADEMIC & PROFESSIONAL EXPERIENCE

**Assistant Professor** | 2013 – Present

*Department of Electrical Engineering, Pathumwan Institute of Technology* Lead research initiatives in WPT and IoT systems.

- Develop curriculum for Embedded Systems and Industrial IoT.
- Serve as Co-Session Chair for international conferences (iEECON).

## Engineer | 2011 – 2013

*Western Digital (Thailand) Co., Ltd.* Focused on hard disk drive manufacturing technologies and Test Engineering

## Research Assistant | 2010 – 2011

*National Electronics and Computer Technology Center (NECTEC)* Contributed to national-level R&D projects in Power Electronics and automation.

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## SELECTED RESEARCH PROJECTS

- **Principal Investigator:** Development of Mobile Wireless Battery Charging Systems for EVs (2021–2022).
  - **Lead Researcher:** Development of Long-Rail Dynamic Wireless Power Transfer for High-Speed Trains (Grant funded, 2018–2019).
  - **Research Fellow:** Artificial Intelligence for Autonomous High-Speed Train Control (2018–2019).
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## PUBLICATIONS & SCHOLARSHIP

### Selected Journal Articles

- **Anyapo, C.**, Teerakawanich, N., & Mitsantisuk, C. (2022). "Development of Multi-coiled Dynamic Wireless Power Transfer for Electric Vehicle." *International Review of Electrical Engineering (IREE)*, 17(2), 185-195.
- Varachitchai, N., **Anyapo, C.**, & Mitsantisuk, C. (2017). "Shadow and Mirror Mode Bilateral Control for a Tele-Operated Robot System." *International Review of Automatic Control (IREACO)*, 10(3), 267-273.
- Saito, K., **Anyapo, C.**, et al. (2009). "Development of an Electric Wheelchair System Using PEM Fuel Cell." *Journal of Asian Electric Vehicles*, 7(1), 1185-1190.

### Selected Conference Proceedings (IEEE)

- **Anyapo, C.**, & Intani, P. (2020). "Wireless Power Transfer for Autonomous Underwater Vehicle." *IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer (WoW)*, Seoul, South Korea.
  - **Anyapo, C.**, et al. (2018). "Development of Wireless Power Transfer with Primary-Side Current Mode Control Capability Using Virtual-Current Source Resonant Inverter." *IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society*.
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## TECHNICAL KEYNOTE & TRAINING DELIVERED

*Expert Trainer for Industry and Academia in the following areas:*

- **Robot Operating System (ROS):** Delivered to Western Digital and Kasetsart University (2024–2025).
  - **Microprocessor Architecture & Programming:** Collaborative training with Western Digital Storage Technologies.
  - **IoT & Embedded Systems:** Lead instructor for Smart Farming and Industrial IoT workshops (MHESI Grant).
  - **Digital Pedagogy:** Specialist in Moodle LMS implementation for engineering education.
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## TECHNICAL SKILLS

- **Power Electronics:** Resonant Inverters, Phase-Shift PLL Control, WPT System Design.
  - **Systems & Programming:** ESP32, Node-RED, MQTT, ROS, C/C++, Python.
  - **Tools:** MATLAB/Simulink, PSIM, Moodle LMS Development.
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## LANGUAGES

- **Thai:** Native
  - **English:** Professional Working Proficiency
  - **Japanese:** Conversational (Nagaoka University alumnus)
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## PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Co-Session Chair, International Electrical Engineering Congress (IEECON)