Nguyen Quang TUONG

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Electrical Engineer | 6yr+ Primary Equipment Testing on Vietnam's Grid | Runner

I am a highly experienced high-voltage test engineer who has been involved in testing, commissioning, and maintaining electricity substations up to 500 kV for over six years. My main areas of expertise include diagnostic measurement, project management, and power distribution. My goal is to maximize productivity and the quality of electrical testing.

Experience

08//2017 - 02/2022

Deputy Manager

Electrical Testing Company member of HCMC Power Corporation (EVNHCMC), Ho Chi Minh City, Vietnam

- Operating and managing 40+ staff members to supply 24-hour electrical testing services for Ho Chi Minh City's electricity grid ensures it operates reliably.
- Provided guidance, training, and development for the field electrical and instrumentation personnel approaching the condition-based maintenance (CBM) strategy.
- Coordinated the preparation and implementation of execution plans in various work locations.
- Reviewed, corrected, and approved technical test reports to meet industry standards.

Key achievement: digital transformation in test data management. Increased production efficiency over the previous arrangement.

07//2017 - 07//2017

Senior Engineer

Electrical Testing Company member of HCMC Power Corporation (EVNHCMC), Ho Chi Minh City, Vietnam

- Focused on detailed technicalities to find the cause of failure of primary power equipment.
- Apply the condition-based maintenance (CBM) strategy to primary power equipment for Ho Chi Minh City's power grid.
- Expertise in diagnostic measurement includes partial discharge (PD), dielectric loss (TD), and sweep frequency response analysis (SFRA).

01/2016 - 06/2017

High Voltage Testing Engineer

Electrical Testing Company member of HCMC Power Corporation (EVNHCMC), Ho Chi Minh City, Vietnam

- Key experience in the field of testing and commissioning of power system products and the execution of projects related to electrical power systems.

- Expertise in the testing of electrical power types of equipment and strong knowledge of electrical types of equipment such as high voltage power transformers, reactors, rotator machines, circuit breakers, disconnect switches, power cables, and many types of instrument transformers.

04/2015 - 11/2015 **Embedded Software Engineer**

TMA Solutions, Ho Chi Minh City, Vietnam

Working with the R&D team to investigate some projects:

- Research and implementation of a project based on the UWB real-time location system (RTLS). Released a prototype version.
- Research in IoT related to high-tech agriculture: build a small-scale automation system to feed plants (aquaponics). Released a prototype version.

Working projects

2020 - 2023 **The IoT Solutions for Digital Farming**

Vietfarm Solutions, Ho Chi Minh City, Vietnam

Build the technical solution and structure. Design and build an IoT sensor and control network based on LORA radio communication technology, cloud service, and more.

2017 - 2018 **Smart Parking**

Smart World Technology Co., LTD, Ho Chi Minh City, Vietnam

Working with other developers to build the technical solution and complete some motorcycle parking ensures progress, economy, and quality requirements. My task is to design, construct, operate, and debug the graphic LED display panel system that connects to the computer through Modbus communication.

Education

2023 - present **M.Eng.**, Power Electrical, Victoria University, Australia

2009 - 2014 **B.Eng.**, Electrical Engineering, Ho Chi Minh City University of Technology (HCMUT), Ho Chi Minh City, Vietnam

Thesis project

2013 - 2014 **Design and manufacturing of an energy-saving controller for street light**

During university, I designed and manufactured an energy-saving controller for street lights (250W HID lamp) that requires less power loss than traditional HID lamps. In this project, I built a VF single-phase inverter to find the matching point of maximum bright light with minimum power drain.

Skills

- I can work easily in a team and lead a project. Indeed, I took part in many different projects during my studies, and I am used to working in a team.
- I can work efficiently under pressure. Indeed, during preparation, I was used to managing important projects for a short period and making oral presentations without any preparation time.
- Know international standards such as IEC, IEEE, NETA, Cigre, ANSI, etc.

- Operating and depth-understanding of many manufacturers' testing equipment, such as Omicron Energy, Megger, Baur, Haefely hipotronics, Fluke, etc.
- I have good computer handling and programming skills, which I acquired during my studies, work, and hobbies.

Languages

Vietnamese	Native
English	*Intermediate*

Interests and hobbies

Running	I am passionate about running. It helps me stay strong and motivates me. Some achievements: Full Marathon 42 km in 3:44', Half Marathon 21 km in 1:45'
Donation	In Vietnam, I usually take a blood donation every four months. Currently, I am studying in Australia. I donate blood to the Australian Red Cross near me when it is scheduled.
Technology	Besides the energy section, I also enjoy the high-tech section

Licences and certifications

Nov - 2019	**ASEAN Power System Operators**,Tenaga Nasional Berhad, Penang, Malaysia
Mar - 2019	**HAPUA WG5 Program on Analysing and Investigating The Causes of Incidents on Distribution and Transmission Grid Networks (110kV-220kV)**, Tenaga Nasional Berhad, Ho Chi Minh City, Vietnam
Apr - 2018	**HAPUA WG5 Program on POWER SYSTEM PROTECTION**,Tenaga Nasional Berhad, Ho Chi Minh city, Vietnam
Sep - 2017	**Gas Insulated Switchgear (GIS) up to 300kV Factory Training,** Hyosung Corporation, Changwon, Korea

Plans during the study in Australia

- Learning English course, then starting a master of engineering at Victoria University in 2023.
- Find a part-time job to practice English, and become an intern in a company to improve major skills during university.