

REFLECTIVE ELECTRICAL ENGINEERING LEARNING (REEL2026)

Building Skills and Professionalism through
Industrial Training

SKILLS



REEL2026
Reflective
Electrical Engineering Learning

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BUILDING SKILLS AND PROFESSIONALISM THROUGH INDUSTRIAL TRAINING



REEL 2026

REFLECTIVE ELECTRICAL ENGINEERING LEARNING

*"Building Skills and Professionalism
through Industrial Training"*

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Electrical Engineering Studies
Universiti Teknologi MARA Pulau Pinang Branch
Permatang Pauh Campus

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eISSN

3093-7027

Published by

Diploma in Electrical Engineering
Electrical Engineering Studies
Universiti Teknologi MARA Pulau Pinang Branch
Permatang Pauh Campus
13500 Permatang Pauh
Pulau Pinang, Malaysia

This e-magazine is published annually

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*Reflection transforms
experience into meaningful learning*

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Internship Diary: Learning Experience at Infra Focus (M) Sdn. Bhd.

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Beginning my internship at INFRA FOCUS (M) SDN. BHD. was a significant milestone, marking my first real exposure to the professional world of electrical engineering. I remember feeling a mix of nerves and excitement on the first day, eager to absorb as much as I could. The team greeted me kindly and introduced me to the company's ongoing projects, particularly those involving underground power cable installations. From that point, I realized this internship would play a key role in shaping my future career.

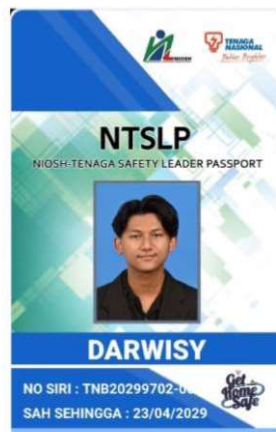


Figure 1: My NTSLP card

During my time there, I was mainly involved in assisting with project management for 33kV underground cabling work. This responsibility gave me firsthand insight into how electrical projects are organized and executed at the site level. I discovered that project management extends far beyond technical aspects which it also includes supervision, scheduling, coordination, and maintaining safety and efficiency throughout operations.

One of the most engaging tasks I participated in was cable laying. This process involved setting underground cables through designated trenches and ducts. I watched how the team handled heavy cables with specialized tools to avoid damage and learned how critical it is to inspect cable routes, monitor site conditions, and align progress with the project schedule. These experiences deepened my understanding of the real-world challenges faced during underground cable installation.

I also gained valuable knowledge about cable jointing, an essential process for connecting sections of underground cable and restoring insulation integrity. I observed and assisted technicians in preparing cables, connecting conductors, applying insulation, and completing the jointing procedure using proper kits. Each step had to be precise, as the quality of the joint determines the reliability and safety of the entire system.



Figure 2: Laying Cable in Pipe



Figure 3: Joint Cable using Underground Cable Joint Kit

In addition, I was involved in link box connection to the TNB system, which handles grounding and bonding for underground cables. Through this work, I learned how proper terminations and connections are made in accordance with technical standards to ensure stable system performance. These tasks enhanced my understanding of how large-scale power networks operate in practice.



Figure 4: TNB Link Box

Beyond technical experience, the internship significantly strengthened my soft skills. I improved my communication with engineers, supervisors, and site workers, and learned the value of teamwork, punctuality, and accountability. Working on-site also taught me to stay composed and think critically when facing unexpected challenges.

Overall, my internship at INFRA FOCUS (M) SDN BHD was both educational and transformative. It expanded my technical competence in underground power systems while developing my confidence and professional mindset. This experience has prepared me well for my future journey as an electrical engineer.

Authors' Biography



Muhammad Darwisy bin Mohd Azziddin is a dedicated student pursuing a Diploma in Electrical Engineering (Electronics) at Universiti Teknologi MARA (UiTM) Cawangan Pulau Pinang. As part of his academic journey, Darwisy is currently undergoing an internship at Infra Focus (M) Sdn Bhd from 2nd March to 21st June 2026. This hands-on experience allows him to apply theoretical knowledge in a real-world setting, further developing his expertise in electrical and electronics engineering. With a keen interest in technological advancements, Darwisy aims to contribute meaningfully to the industry and to become a skilled professional in electrical and electronics engineering.



Ts Dr. Norazwana binti Mohd Najib has 3 years of experience in Electronic Engineering field since she joined Universiti Teknologi MARA Permatang Pauh in 2023. She received Bachelor of Electrical Engineering (Hons) from Universiti Teknologi MARA (UiTM) in 2008. In 2009, she received Master of Engineering Science (Telecommunications) from University of New South Wales, Australia and was appointed as Product Engineer at Keysight Technology Bayan Lepas. She served with Ministry of Human Resource as Vocational Training Officer for 13 years. In 2018, she received her PhD in Electrical and Electronic Engineering from University of Leeds, United Kingdom and current research interest are filters and antenna design.

eISSN 3093-7027



PUBLISHED BY:
DIPLOMA IN ELECTRICAL ENGINEERING
ELECTRICAL ENGINEERING STUDIES
UNIVERSITI TEKNOLOGI MARA (UiTM)
PULAU PINANG BRANCH
PERMATANG PAUH CAMPUS
13500 PERMATANG PAUH
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