

REFLECTIVE ELECTRICAL ENGINEERING LEARNING (REEL2026)

Building Skills and Professionalism through
Industrial Training

SKILLS



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Reflective
Electrical Engineering Learning

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BUILDING SKILLS AND PROFESSIONALISM THROUGH INDUSTRIAL TRAINING



REEL 2026

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*"Building Skills and Professionalism
through Industrial Training"*

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*Reflection transforms
experience into meaningful learning*

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Building Skills and Confidence Through Industrial Training: My Internship Reflection

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Industrial training is one of the most meaningful phases in a student's academic journey because it allows students to step outside the classroom and experience the real working environment. Before starting my internship, I was honestly nervous because I did not know what to expect from the industry. I kept thinking about whether I could adapt to the working culture, communicate professionally, and perform technical tasks correctly. However, as time passed, I realized that industrial training is not only about learning technical work, but also about discovering our own potential, improving confidence, and preparing ourselves for the future.

I underwent my industrial training at Flextronics in the software department, where I was exposed to various technical tasks, system setups, troubleshooting activities, and teamwork-based operations. Throughout the internship period, I learned many valuable lessons that could never be fully understood through lectures or laboratory classes alone. Every task given to me required focus, patience, communication, and responsibility.



Figure 1: Working environment at Flextronics software department

This reflective article shares my experiences and lessons learned during industrial training, especially regarding technical skills development, workplace professionalism, teamwork, and personal growth as a future engineer.

During the first week of internship, all new interns attended an orientation session conducted by the Human Resources department. We were required to submit documents, take photographs for staff identification cards, and collect safety equipment such as safety shoes and smocks before entering the production area. Although the process looked simply, it made me realize how seriously the company prioritizes safety, discipline, and professionalism.

After the orientation session, I was assigned to the software department and introduced to my supervisors and team members. Initially, I felt shy and nervous because everyone around me already had industrial experience and strong technical knowledge. I worried that I might make mistakes or slow down the workflow. However, my supervisors and colleagues welcomed me warmly and guided me patiently throughout my learning process.

The working environment at Flextronics was very different compared to classroom learning. The workflow moved quickly, and every task needed to be completed efficiently and accurately. I learned that time management is extremely important in industry because delays in one process can affect the overall operation. This environment taught me to become more disciplined, alert, and responsible when handling assigned tasks.

One of the most valuable experiences during my internship was being directly involved in technical and operational tasks. Throughout the internship period, I assisted in configuring PCs, setting up monitors, preparing systems for operation, and handling troubleshooting activities.

At the beginning, I found PC configuration quite challenging because there were many procedures and settings that needed attention. I had to ensure that the systems were configured correctly before they could be used for operational purposes. Mistakes in configurations could affect system performance and delay production processes. Because of this, I learned to work carefully and pay close attention to detail.



Figure 2: PC configuration and setup activities

Besides PC configuration, I was also exposed to miscorder setup activities. Through these tasks, I learned how systems and devices are prepared systematically before being deployed. I realized that technical work requires not only theoretical knowledge but also practical understanding and patience.

One memorable experience was when my supervisor taught me how to clone pendrives efficiently for software and system preparation purposes. At first, I thought it was only a small task, but later I understood how useful and time-saving the process was for industrial operations. This experience taught me that even simple technical knowledge can significantly improve productivity and workflow efficiency.

Another important responsibility assigned to me was checking the task scheduler at several bays to ensure that systems were functioning correctly according to schedule. I felt proud

because I was trusted to handle this responsibility independently. This task improved my troubleshooting skills and taught me the importance of consistency, accountability, and attention to detail in engineering work.

The internship also exposed me to real-world troubleshooting situations where systems occasionally encountered technical issues. During these situations, I observed how experienced workers identified problems systematically and solved them calmly under time pressure. From this experience, I learned that problem-solving skills are extremely important in engineering because technical problems can happen unexpectedly at any time.

Throughout the internship, workplace safety was always emphasized by the company. Before entering specific working areas, employees and interns were required to wear proper safety equipment and follow operational procedures carefully. This experience helped me understand that safety is not simply a rule, but a responsibility that protects everyone in the workplace.

During technical tasks and equipment handling, I learned the importance of following standard operating procedures (SOPs). Even during simple setup activities, carelessness could potentially affect systems or create safety risks. Because of this, I became more aware of the importance of discipline and responsibility while performing technical work.

Besides safety awareness, I also learned about professional conduct in the workplace. In industry, communication and teamwork are extremely important because every department depends on one another to ensure smooth operations. I learned how to communicate politely with supervisors and colleagues, ask questions professionally, and work together with team members during technical tasks.

One thing that impressed me the most was the positive working environment within the team. Although everyone was busy with their own responsibilities, they were still willing to guide and support interns whenever needed. This supportive environment motivated me to learn more and become more confident when handling tasks.

Of course, industrial training was not always easy. During the early stages of my internship, I sometimes struggled to adapt to the fast-paced working environment. There were many unfamiliar systems, technical terms, and procedures that I needed to understand within a short period of time.

At first, I was afraid of making mistakes because I did not want to affect the workflow or inconvenience my team members. However, as time passed, I slowly realized that mistakes are part of the learning process. Instead of feeling discouraged, I used every mistake as an opportunity to improve myself and gain new knowledge.

One of the biggest lessons I learned during internship was the importance of asking questions and being willing to learn continuously. In industry, nobody expects interns to know everything immediately. What matters most is the willingness to learn, improve, and adapt. This internship experience also helped improve my confidence significantly. Before industrial training, I often doubted my technical abilities. However, after successfully completing assigned tasks and contributing to the team, I became more confident in my skills and capabilities.

Besides technical growth, I also improved my communication skills, teamwork abilities, and time management. I learned how to manage responsibilities efficiently, work under pressure, and adapt to real workplace expectations. Honestly, this internship became one of the best experiences of my student life. Every day brought new lessons, challenges, and memories that made me grow both personally and professionally.

Looking back at my internship journey, I realized that industrial training has given me a clearer understanding of the engineering industry and my future career direction. The experience allowed me to see how technical knowledge learned in university is applied in real industrial situations.

Through my exposure in the software department at Flextronics, I became more interested in system operations, troubleshooting, and technical support activities. I also understood that engineering careers require continuous learning because technology and industrial systems are constantly evolving.

Most importantly, this internship taught me that success in engineering is not only based on technical knowledge but also on professionalism, discipline, teamwork, communication, and willingness to improve continuously. The experience motivated me to continue learning and developing my skills so that I can become a competent and responsible engineer in the future.

In conclusion, my industrial training at Flextronics was an unforgettable and meaningful experience that contributed greatly to my technical and personal development. Throughout the internship period, I gained valuable exposure to real industrial operations, technical system setups, troubleshooting activities, workplace safety practices, and professional teamwork.

The hands-on experiences helped me improve practical engineering skills that cannot be fully learned through classroom education alone. At the same time, the internship also strengthened my communication skills, confidence, discipline, and professionalism. Although there were challenges throughout the journey, every experience became an opportunity for learning and self-improvement. I am truly grateful to my supervisors, colleagues, and team members who guided and supported me throughout the internship.

Overall, industrial training was one of the best experiences in my academic journey because it helped shape me into a more confident, skilled, and motivated future engineer who is ready to face challenges in the professional industry.

Authors' Biography



Mia Batrisya binti Mohd Khairil Anuar is a Diploma in Electrical Engineering (Electronics) student at Universiti Teknologi MARA (UiTM) Cawangan Pulau Pinang. As part of her academic requirement, she underwent industrial training at Flextronics in the software department from March 2026 until June 2026. During her internship, she gained hands-on experience in PC configuration, system setup, troubleshooting activities, task scheduler monitoring, and technical support operations. Through this industrial exposure, she developed practical technical skills, workplace professionalism, teamwork abilities, and problem-solving skills that strengthened her interest in the engineering and technology field.



Aiza Mahyuni binti Mozi has 16 years of experience in electrical engineering education and currently serves as a Senior Lecturer at the Faculty of Electrical Engineering. She received a Bachelor of Engineering (Hons) in Electrical Engineering from Universiti Malaysia Perlis in 2007 and a Master of Engineering in Electrical Engineering, specializing in Communication, from Universiti Tun Hussein Onn Malaysia (UTHM) in 2009. She is currently pursuing a PhD in Electrical Engineering, specializing in Communication, at UiTM Cawangan Pulau Pinang. Her current research interests include radio frequency (RF), microwave engineering, and antenna propagation.

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