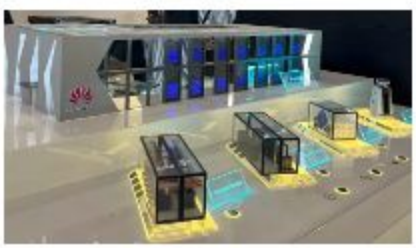
Technology Information System and Industrial Visit by Petronas & Huawei

Upon arriving at ExxonMobil located in Kuala Lumpur, our group was welcomed by the friendly staff. The tour began with breakfast prepared by staff and continued by talks from two incredible presenters, Mr. Roman and Mr. Ninderjit. They talked about their key of infrastructure services which contains network management applied in Petronas. Other than that, they also speak out about work opportunity, technology stacks, skills required in software engineering, IT service management and some more.

We have grabbed the opportunity to visit the HUAWEI Technologies (MALAYSIA) Sdn Bhd located in Kuala Lumpur where the visitor can explore more about the technology made by Huawei themselves. We began the visit with some explanations about all the technologies there and the overview of their products. Huawei Technologies (Malaysia) provides information and communications technology infrastructure and smart devices. Huawei offers data centre networking, optical transmission and distribution storage solutions.



"The only source of knowledge is experience -Albert Einstein

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The technologies & issues discussed

PETRONAS has successfully adopted 5G technology revolution which consists of speed, network, Internet of Things (IoT), Artificial Intelligence (AI) and also signal. These elements are crucial in order to develop this technology. Henceforward, 5G technology supports MFT 50 : 30 : 0. These targets imply 50% improvement in cashflow by 2025, developing new sources of revenue from non-traditional areas by 2030, and achieving our net-zero aspiration by 2050.

"Huawei is dedicated to collaborating with customers and partners to promote green PV as a primary energy source for every home and businesses"- said staff of HUAWEI.
In commercial and industrial (C&I), Huawei encourages innovation in technology to establish active safety as the norm, assisting clients in lowering their carbon footprint. Huawei Smart PV&ESS Solution works in both on-grid and off-grid scenarios, providing 30% less LCOE and 40% greater capacity for renewable energy than a traditional system. Strong cybersecurity is provided by its 5+4 multi-level safety architecture, which guarantees complete protection from PV to ESS, encompassing components to systems. Its full digitalization makes it possible to sense every part of a power plant from beginning to the end.

Few issues are discussed among the students and speaker. Both speakers shared to us about how they have come so far, their experience on conducted projects, and a hunk of advises for us as student. At first, they teach us on few skills that need to be implemented as student and future-engineer in IT field such as; analytical thinking, problem-solving skills, both programming and productivity skills, software development life cycle, and life-long learning. By focusing on these skills, aspiring future IT engineers (which are us) can prepare ourselves for a dynamic and challenging career in the IT industry.

Other than that, they also emphasize the key of infrastructure services as it plays a major step in our future essentially. These are necessary as it will be the basic knowledge that we are going to use daily later, which are; storage management, database management, network management, server management, server provisioning, security management, application management, monitoring alert and notifications. Not to forget, they encourage us to never stop on learning as much as we could, even when we can't remember quite everything, as Mr. Roman Kvaska said, "you will never know everything, it's just too much", quote unquote.

What's the reflection from the visit ?

We could explore how IT innovation is revolutionising education through e-learning platforms, interactive tools, or personalised learning experiences can provide insights into how students and educators benefit from technology-enabled education.
The insights that we have gained from this industrial visit on how the innovation helps human life in particular aspect is that it helps human in doing their daily routines faster than before with the help of technology. Technology gives a big impact in someone's life when it comes to communication. Technologies enable people to communicate instantly, regardless of geographical distances.
Not to mention, another insight that we gain through this visit is that we understand how smart city efforts use information technology breakthroughs to improve wireless infrastructure, life management, and public services may demonstrate how technology improves urban living standards and sustainability.

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