

# TIS INDUSTRIAL VISIT

## TO PETRONAS AND HUAWEI

November 17, 2023

### Summary

On 17th November 2023, our lecturer, Dr Aryati brought us to an industrial visit at Petronas and Huawei in Kuala Lumpur.

For the first visit, we went to Menara Exxon Mobile (Petronas) and had two industrial talks given by The Head of Infra Service, Mr. Ninderjit Singh and The Head of Software Engineering, Mr. Roman Kvaska. They have introduced their technologies and skills needed by us in industry.

After that, we went to Huawei Customer Solution Innovation Centre (CSIC) that located at Integra Towel level 33. The purpose we went there is to get knowledge about Huawei System and Technology to push innovation forward and build a better intelligent world.

### Technologies and issues

During our visit in Huawei, they have provided an opportunity for us to learn about Huawei's impressive portfolio of innovative products and solutions. We have gained valuable insights into the latest advancements in 5G, AI, Data Centres, AR/VR, and Cloud technologies where they were able to witness first-hand the practical applications of these cutting-edge technologies in real-world scenarios. We now have a deeper understanding of how these technologies transform industries and enhance people's lives.

In addition, we could clearly remember that we were introduced to their technology called Huawei AirEngine 8771-X1T. It is an indoor access point (AP) in compliance with Wi-Fi 7. The Wifi AP is implemented with the AI-based intelligent O&M which use Big Data and AI technologies to automatically identify and trouble shoot any network issues in a very short time given.

During the Petronas's industry talk, Mr. Ninderjit had share about the knowledge of cloud computing, infrastructure services and Information Technology Service Management (ITSM). Not only that, he had present the Petronas's technology , Pengerang Cogeneration Plant (PCP). It's Machine Monitoring and Diagnostic uses advanced pattern algorithms to provide early warning of anomalies to ensure reliable supply of power and steam. While Mr. Roman had shared about his specialized field, software engineering informations, experience and skills for us. He had emphasise the essential of life-long learning for our future development as there is no end to learning.



In Petronas, we were introduced to the internship and Young Graduate Programme at Petronas Malaysia. The internship programme was an excellent opportunity for student to gain practical industry experience that would ensure their future success as computing professionals. Furthermore, our team get a chance to interview Mr. Ninderjit Singh about the topic "Internet of Things". We are able to know more information and details about IOT which is also the topic of our project for TIS. He told us how actually the IOT works with AI and other technologies.

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The industrial visit to Petronas and Huawei provided insights into the diverse technologies these companies work on. The speakers emphasized the importance of mastering computer science skills and knowledge, including infrastructure services and the need for lifelong learning to stay current with technology. This will enhance the chances of getting a job in the future. As a summarize, the most important thing for me during the current time is to do the things and tasks the best that I could and use my time to learn more skills that would help me in the future time.

Reflecting back on the industrial visit to Petronas and Huawei, it was a wonderful opportunity to experience a visit to those companies. I am given the chance to know about life of 'computer people' that I will going to face during future. The life experience by Mr. Roman Kvaska makes me more looking forward to my future works, experience and difficulty which I would face. Otherwise, from him, I realize that everyone is actually keep learning on different stage of life and he also keep advise us to have self-learning in computer science skills and knowledge that we are not so expert in. Moreover, I was impressed about the technology and computing who really helps human being convenience and improve our life. In conclusion, I hope that I have the chance to involve myself in this field and now I would spend my free time to learning extra technique to improve myself and become knowledgeable in this field.



Technology innovation has changed human day-to-day life. I was impressed by the evolution of the computing science field, which has rapidly enhanced the standard of living after the visits. I was also surprised by Petronas's technology because I realised it was much more than just an oil and gas company after listening to Mr. Ninderjit Singh's speech. It needs advanced technology to support the company's operation, its smart alarm system provides early warning and real-time monitoring to ensure a reliable supply of power. Besides, I was thrilled to see the weighing retail scale at Huawei CSIC since I had previously read about the news of this similar technology at Amazon. It is more convenient for both the seller and the customer due to the shorter payment period, the long queue scenario could be reduced. Lastly, the motivation that I gained from this industrial visit was, 'Never stop learning as there is no limit to knowledge.' from Mr. Roman Kvaska. I also believe that innovation is the purpose of humans nowadays working together to create a lasting future in every aspect.

Embarking on our first industrial visit was a captivating experience. In Petronas, we had a delicious breakfast provided by Petronas that had made my day after 9 hours of journey. I learnt much things from the talk given by Mr. Ninderjit Singh and Mr. Roman Kvaska. The most important point which both of them keep repeating is that I must never stop learning and fostering the right work ethic. Mr. Roman gave us guidance on way to excel our potential in internships at Petronas, along with advice on future interviews. Futhermore, I felt so proud to be able to interview Mr. Ninderjit regarding our group's first TIS project on 'Internet of Things'. His clarifications were immensely helpful. While in Huawei, their technological advancements were impressive. One of those is their payment machine. We can simply drop a few things we want to buy on the tray and we could know all the prices immediately. Unfortunately, our time at Huawei was hurried, we could just able to explore some. As I reflect, their innovations really reinforced my aspiration to work there. This visit feels like a step closer towards my dream of being a part of Huawei.



Both talks broadened my perspective and understanding of technological innovation with their knowledge and high-tech product sharing session. The advancement of technology made me realize how important it is for us to keep improving in order to keep up with technological changes. The benefits of technological advancements are numerous, ranging from increased efficiency and productivity to improved communication and collaboration. It had change the way we behave and operate that bring us a better quality of life. I will keep strengthen and solidify my knowledge to contribute to science and technology in the future.