

2024
BEM
OPEN *Day*

Starting my career in the
Engineering Profession
*- The Pathway to be an effective
Technocrat -*

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Venue: Waterfront Hotel, Kuching, Sarawak

Content

1. Key Experiences/Capabilities:

- a. Shell Engineer / Project Team Leader D35 Offshore Development (last job in Shell)
- b. CEO of Brooke Dockyard
- c. Director of Public Works Department Sarawak (JKR Sarawak)

2. To be an effective Technocrat

3. Conclusion

Key Experiences/Capabilities

As a Shell Engineer (12 years)

- a. Engineering design skills as a process engineer.
- b. Capability as an engineering integrator of all disciplines in realising a project.
- c. Project and construction management capabilities.
- d. Experience working in a multinational company with its multicultural background.
- e. Initial exposure of the needs to be an effective technocrat.
- f. Involved in the Business Process transformation agenda and exposed to the mechanics of an effective Business Transformation Lab.



Key Experiences/Capabilities

As a CEO of Brooke Dockyard (13 years)

- a. Successful delivery of around 30 fabricated offshore Platforms to esteemed clients like Shell, Petronas Carigali, Exxon Mobil, Murphy Oil, and Talisman.
- b. Capability to be an all rounded technocrat with exposure to various areas required to be an effective CEO not limited to following:
 - Finance
 - HR
 - Marketing
 - Stakeholder Management
 - Business turnaround skills
- c. Turning around an insolvent corporation into a viable entity.
- d. Skillset of managing construction works in its detailed form.
- e. Enhancing capability in other key aspects of project management. (from a contractor's perspective)
- f. Learn importance of complexity as a body of knowledge to be comprehended well.





Load out of Baram-B compression Platform



Celebrating the completion of Petronas Carigali ANCSI-B platform



Key Experiences/Capabilities

As Director of Public Works Department Sarawak (JKR Sarawak)

- 2 years as Deputy Director
- 11 years as Director



- a. Oversaw the successful completion of 208 public infrastructure projects worth RM20 billion during the 10th & 11th Malaysia Plans.
- b. Initiated and managed two of Sarawak's largest public infrastructure projects, the RM16 billion Pan Borneo Highway (PBH) and the State-funded RM11 billion Coastal and Second Trunk Road Project.
- c. Enhance the critical skills as an integrator of various engineering skills.
- d. Invaluable experience in the journey of restructuring and transforming the largest State Government department.
- e. Expand knowledge in project management in particular dealing with complexity.
- f. Learn key skills in effective networking and stakeholders management.



Site Visit of the proposed Administration Building, Bintulu



Opening of Pan Borneo Highway Serian Interchange section



Site inspections



Jepak cable stayed Bridge



Brooke Museum

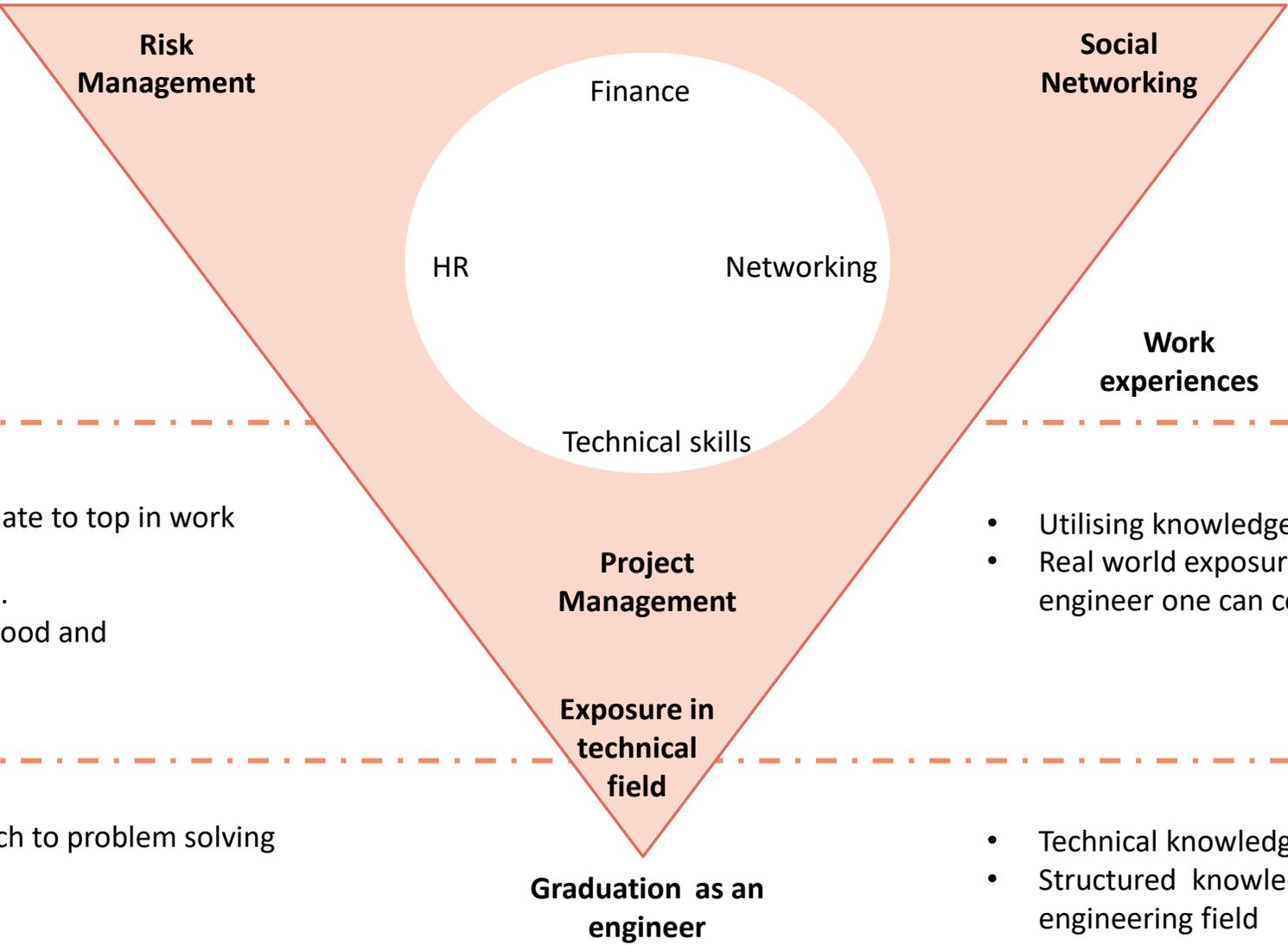
2.0 Developing the Seeds/Ingredients along the technocrat pathway journey

What we gain intuitively

“Ambiguity” needs to be acknowledged and understood: need array of skills, attitude development to manage the ‘envelope of ambiguity’.

- Being top in class does not equate to top in work life success.
- Rationality is just one attribute.
- Ambiguity needs to be understood and capitalized.

- methodical/systematic approach to problem solving



What we learn

Expand the envelope of knowledge and capability through:

- Further studies.
- Seminars/forums.
- Conventions.
- Giving talks.

- Utilising knowledge + skills as an engineer.
- Real world exposure of what value as an engineer one can contribute.

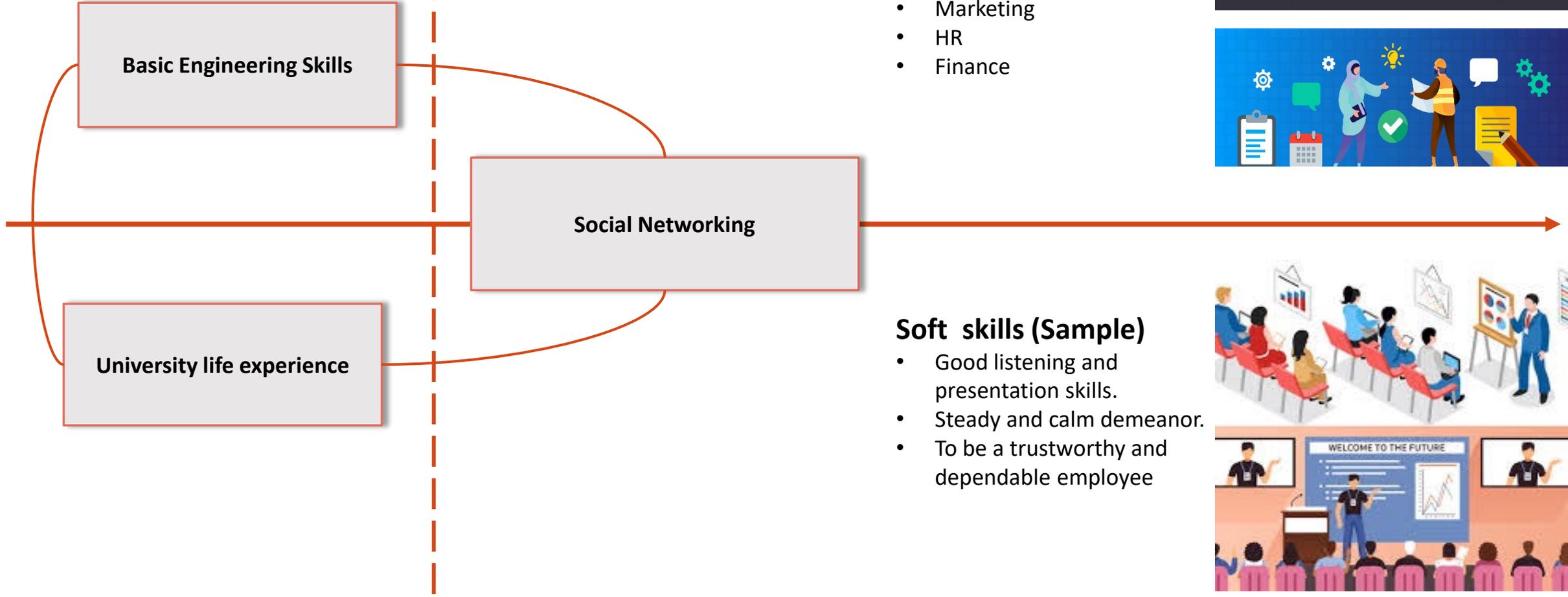
- Technical knowledge + skills.
- Structured knowledge enhancement in engineering field



Phase: Student life



Phase: Work life



Hard skills (Sample)

- Project Management
- Marketing
- HR
- Finance



Soft skills (Sample)

- Good listening and presentation skills.
- Steady and calm demeanor.
- To be a trustworthy and dependable employee



Conclusion

1. A career in Engineering can be a rewarding experience where an engineer can contribute in its tangible form the development of the country.
2. One pathway is how to be an effective technocrat. There are many other pathways that the engineer can pursue for example specialisation in one area in engineering.
3. The environment is now totally different from when we (baby boomers) started our career. For example, Artificial Intelligence (AI) will be a dominant aspect.
4. As for Sarawak context, opportunities can be in green economy field for example Hydrogen industry.





Question & Answer