



TECHNOLOGY AND INFORMATION SYSTEM  
SECP1513

ASSIGNMENT 3

INDUSTRY TALK: SKILLS IN UNIVERSITY AND  
INDUSTRY

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## **SKILLS IN UNIVERSITY AND INDUSTRY**

Encik Mohd Hakimi Iqmall, Encik Nik Mohd Habibullah

*University Technology Malaysia*

### **1. DESCRIPTION**

#### **1.1 Encik Mohd Hakimi Iqmall**

A UTM graduate in Computer Science (Graphic and Multimedia), shared his inspiring journey from a student to a System Analyst or known as Project Manager at UTMDigital. Throughout his year of studies, En. Hakimi has achieved academically in Diploma in Science Computer (Multimedia), UTM, Kuala Lumpur (2013-2014) and Degree in Science Computer (Graphic & Multimedia), UTM Johor Bahru (2014-2018).

He began his career in ME-Tech Solutions Sdn Bhd in 2017 up to one-year contract working in game development, then renewed his working contract with a new organization, Okakichi Sdn Bhd in 2018-2019 as a Game Programmer and dedicated his role and responsibility in the project Kingdom Ran (2018). It is said, he is ultimately grateful to be in this project and to be surrounded by such an understanding organization while accomplishing this project. En. Hakimi then joined UTM Research Computing in 2019-2021 resulting in projects such as RADIS 4.0 (Research and Development Information System) and ICESys (Industry & Community Engagement System).

Currently at UTMDigital as he is responsible for the Academic and Staff systems, Server or Data Management and Strategic and Innovative Projects. En. Hakimi leads a skilled team consists of 3 programmers in UTMDigital, enhancing staff efficiency and organizational planning while driving system improvements. Some of the projects that have been accomplished by him includes:

- a) Welfare Services System,
- b) Clinic Panel System,
- c) Kenaikan Gaji Tahunan (KGT),
- d) Payroll 2.0,
- e) SSPA System,
- f) Integrity System.

In his closing speech, he stated to be brave to challenge yourself, where life begins at the end of your comfort zone. Majority of students or even himself often scared to go beyond of our comfort zone. He suggested we should fight those thoughts and go through beyond our capabilities to prove our strength and connect with friends to increase the productivity. In addition, he stated to never stop learning no matter what and live as if you were to die tomorrow, learn as if you were to live forever (Iqmall, 2024).

#### **1.2 Encik Nik Mohd Habibullah**

Graduated from UTM in 2005, earning a degree in Computer Science Graphic Design. He once involved with graphic team in UTM.

Mr. Habibullah early career was making a video montage with Library UTM. Mr. Habibullah and his team was making a video about launching a video montage

Aman Malaysia and seen by Digital Library UTM. Through that, he invited to perform a video montage for launching Digital Library UTM. During that time, he does not have any company and he was studying his third-year degree. He also continued his internship at Digital Library UTM.

He active in the college association and that's what formed him into entrepreneur from UTM. Building on his education and initial experiences. Some of Mr. Habibullah companies are:

- a) NI solution,
- b) Micro Semiconductor Sdn. Bhd.,
- c) Internet of Things (IoT) (2013-2014),
- d) DatSINI (collaboration with UKM),
- e) GetMe Hired,
- f) Dialysis Manager.

Mr. Habibullah founded NIS Solution, a company that specializes in providing both hardware and software solutions. This included high-profile services for government contracts, emphasizing his capability to navigate administrative processes and meet public sector requirements. Mr. Habibullah elaborated on the inception of his company, GetMe Hired which represents a significant step in his entrepreneurial journey. This company is to help fresh graduates to get their CV. The company aims to develop large-scale and sustainable products tailored to meet market demands. His vision for GetMe Hired is not only to achieve commercial success but also to contribute positively to society by promoting sustainable practices across various sectors.

Mr. Habibullah shares valuable insights from his journey as an entrepreneur, focusing the importance of recognizing gaps in the market. Through his experiences, he hopes to inspire future entrepreneurs to take initiative and be flexible in their career paths (Habibullah, 2024).

### **2. SKILLS**

#### **2.1 COMPUTER SCIENCE**

- a) Computer science is the study of computers and computing including their theoretical and algorithms foundation and it is crucial to master fundamental skills in this field. The skills are categorized into two domains that contribute to technical skills (Aasheim, Li and Williams, 2009). As for programming language, proficiency in programming is an essential skill which is to understand the programming language such as C, C++, Java and Python. These languages are

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widely used in software development and data analysis. Subsequently, master in debugging system is essential for individual to excel in this field. Debugging involves identifying errors and fixing issues in code. Next, version control systems play a crucial role in technical skills. The tools highlight are :

- a) GitHub: A platform for hosting and sharing code,
- b) GitLab: Another powerful tool for version control and project management.

For the second skills which is management skills. Problem solving is a core skill in management, especially during planning and analysis phase. It is required in identifying the most effective solution to ensure the system alignment with objective. Other than that, effective communication is critical for bridging gaps between developers and client. It is crucial to have a good communication skills to ensure the planning and implementation process to run smoothly. Additionally, computer science professionals often work in teams, requiring leadership and team collaboration. Strong leadership encourage teamwork and efficient task management (Iqmall, 2024).

### **2.2 INDUSTRY**

The IT industry demands a wide variety of skills from university students preparing for careers in this field included soft skills. One of the soft skills is effective communication which enables people to explain intricate technical concepts to individuals who are not technical (Tariq Zafar, 2019). Additionally, teamwork is essential because project goals frequently require collaboration among diverse teams. Another important soft skill that helps professionals learn new technologies and methods as the industry changes is adaptability.

(Warrier, 2024) In terms of professional development, obtaining relevant certifications can significantly enhance a candidate's employability and demonstrate a commitment to continuous learning. Engaging in extracurricular activities like clubs or organizations also demonstrate initiative and leadership to increases a candidate's appeal to employers. These professional development initiatives and soft skills give students the advantage they need to succeed in the competitive IT industry.

## **3. REFLECTION**

### **3.1 SYAZMIN NADIA**

I learned the importance of stepping out of my comfort zone and continuously challenging myself to grow. Over the next four years, I will focus on enhancing my skills through hands-on projects and never stop learning to stay adaptable in the ever-evolving field of Computer Science.

### **3.2 FATIN NABILA**

Mastering the basic skills outlined in this report is essential for anyone that want to enter the field of computer science. A strong foundation in problem-solving, programming language and communication ensures the ability to adapt and succeed in computer science industry. By combining technical skills with management skills, individuals can address real-world challenges and contribute to

technological advancement.

### **3.3 AYZA NASEHA**

I'll concentrate on improving my soft skills like teamwork and communication in order to success in computer science over the next four years. My practical experience and adaptability in the IT industry will be further improved by participating in extracurricular activities.

### **3.4 AMNI ZAHIRAH**

The Industry Talk provided soft skills such as develop problem-solving and critical thinking abilities through coding challenges and competitive programming. By staying committed to continuous learning and strategic planning, I believe I can grow and succeed in computer science over the next four years.

## **4. REFERENCES**

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