

ISSUE 02 | APRIL 2022

MIFA IN ACTION

MALAYSIA INDUSTRY FORWARD ASSOCIATION

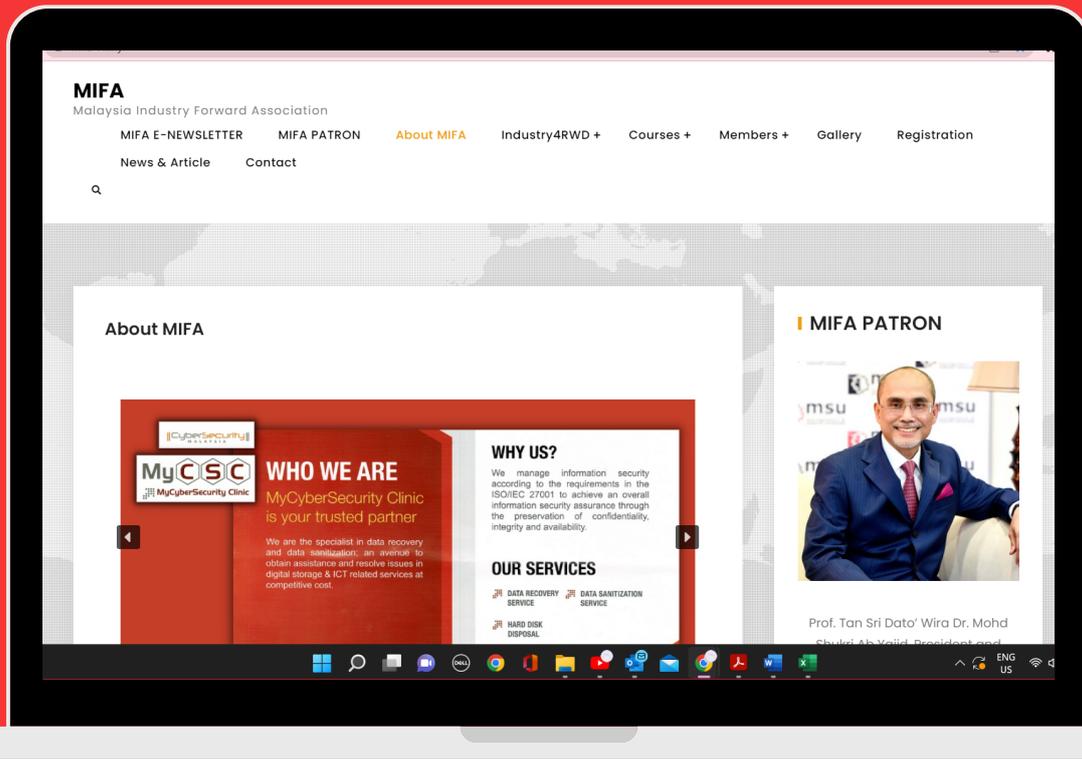
Cyber-attack
Cybersecurity
awareness

Strategic cyber
resilience
programs

**Dato' Ts. Dr. Haji
Amirudin Abdul Wahab**

CEO OF CYBERSECURITY MALAYSIA
MIFA's Special Advisor

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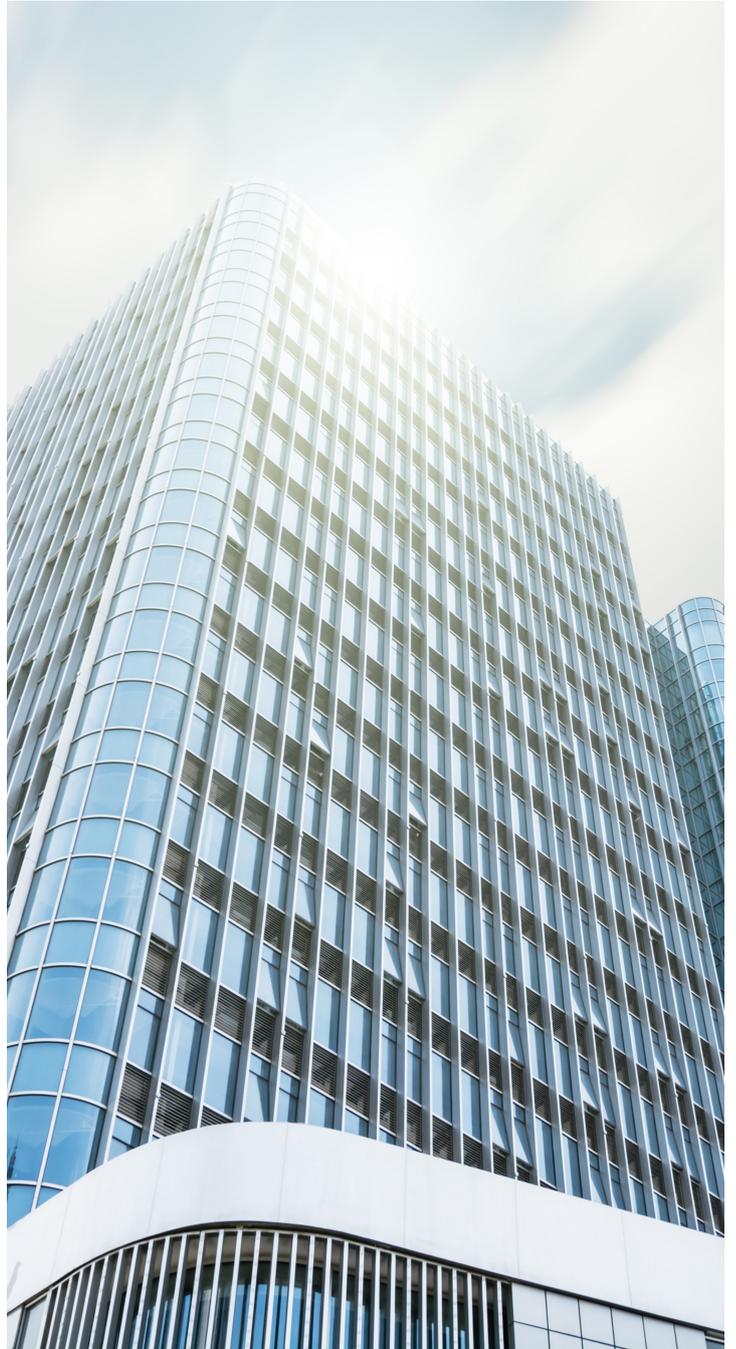
INTRODUCTION

OBJECTIVE

To be the leading community platform that provides outstanding members value relates to Malaysia Industry4WRD Policy. It will connect related stakeholders, entrepreneurs, researchers, and policymakers with a strong voice of influence on the innovation, development, and market deployment of I4.0 & IR4.0 technologies & applications while stimulating and spearheading a favorable business environment.

MISSION

- Advocating and shaping guidelines for the I4.0 & IR4.0 best practices and technology standards
- Generating new business opportunities, increasing collaborations with other members, and building professional standing
- Building a sense of community through events and education
- Enabling a network for collaboration and inspiration
- Developing a comprehensive digital library or knowledge bank with innovative and up to date content including successful implementation testimony and case studies.



PRESIDENT REMARKS



Alhamdulillah. MIFA's business has moved forward with support from, MIFA Patron Prof. Tan Sri Dato' Wira Dr. Mohd Shukri Ab Yajid, and MIFA Special Advisor, Dato' Ts. Dr. Haji Amirudin Abdul Wahab. With MIFA as the key venue to dignify industry 4.0 in Malaysia, I've got a new spirit to be more aggressive. I'm also pleased that government entities have come to recognize and trust MIFA in support of various IR4.0 programs or projects. All of this would be impossible without the unwavering support of MIFA's committee and its members.

Malaysia requires more talents or technologies to ensure that Malaysia becomes a pioneer in industry 4.0, particularly in the Southeast Asian region. Without continuous cooperation and hard work from all industry players, the country's efforts to elevate itself in the field of IR4.0 will be stunted.

I also would like to thank the government agencies involved, such as MOSTI and MITI, for their support and help in achieving MIFA's purpose and vision. MIFA expects more industry participants participating in Industry 4.0 to join MIFA and offer their energy and ideas to make MIFA a competitive organization not only in the nation but also in Asia and beyond.

BEST REGARDS,

***Ts. Muhammad Didi Hendra Shah Bin Norharashid,
P.Tech, CMILT
MIFA President
Managing Director of Hadi Venture Sdn. Bhd. &
IOT Sata Sdn. Bhd.***

THE IMPORTANCE OF

PLANNING AHEAD



Assalamualaikum wbt and Salam Sejahtera.

I would like to express my gratitude to Malaysia Industry Forward Association (MIFA) for giving me this opportunity to share my thoughts in MIFA's second edition e-newsletter publication.

In today's highly connected world, people's lives, their daily activities and day-to-day business have transformed significantly. This reveals an increasing reliance on Information and Communications Technology (ICT) as a vital tool for the nation to progress economically, socially, and politically.

However, today's highly connected world is more complicated and at greater risk. Cyber threats grow in tandem with emerging technologies and cybercriminals exploit technological innovations to refine their expertise to launch malicious attacks replacing traditional methods. The cyber threat now is highly complex and sophisticated as they adopt advanced strategies, and technologies and specialized in utilizing tools and resources to infiltrate victims.

DATO' Ts. DR HAJI AMIRUDIN ABDUL WAHAB FASc

Chief Executive Officer | Special Advisor of MIFA
CyberSecurity Malaysia

Hence, it is important for us to equip ourselves with relevant cyber security knowledge, skills, and capabilities to prevent and lessen the impact of cyber threats. We need to adopt a holistic cyber security approach, through People, Processes, and Technology, across sectors and societies to ensure the nation's readiness against any cyber-attacks.

We need to regularly identify platforms to improve our skills and knowledge of the latest technologies, such as participating in cyber security awareness or training programs. In the industry, it is essential to develop policies, and procedures and ensure they are regularly updated alongside practicing a strategic approach and constant review of risk management to streamline processes. Meanwhile, do not feel reluctant to invest and allocate large sums in new technology, research, and maintenance that elevate solutions for security vulnerability as well as update systems and software with the latest patches to boost systems' defense capability.

Another key factor to overcome cybersecurity risks is cyber resilience. A strategic cyber resilience program enables us to respond and recover from an attack quickly. As no single actor can act alone in this digital age, Public-Private Partnership (PPP) is another enabling factor arising from networking and collaboration with various stakeholders in the industry, in terms of technology advancement, expertise, and processes. Cybersecurity must include everyone. We must work together to bolster our defenses against common risks. No one knows when the next threat will appear.



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COURTESY VISIT & FIRST EXCO MEETING WITH MIFA PATRON



On Saturday, 22nd January 2022, the Exco members of Malaysia Industry Forward Association (MIFA) paid a courtesy visit to our Honorable Patron, Professor Tan Sri Dato' Wira Dr. Mohd Shukri Ab Yajid, the President and founder of the Management & Science University (MSU) and MSU College group.

The aim of the visit was to allow MIFA President and exco members to personally get to know our Patron and exchange their views and concerns on the current socio-economic situation and latest industry development. There was also a brief update to the Honorable Patron on the progress of preparation made for the official launch of MIFA which was scheduled on 27th January 2022 at MSU.

During the visit, Mr Ts. Muhammad Didi Hendra Shah, who led the exco team reiterated the mission and vision of MIFA establishment. He mentioned that he looks forward for a sustainable bonding and continuous collaborations among MIFA members under the supervision of our Patron's office to develop a strong industry linkage for the benefit of all parties involved.

YBhg Professor Tan Sri Dato' Wira Dr. Mohd Shukri, in his words of response had expressed his great interest to work hand-in-hand with all exco members who were present. He said as the Founder of MSU, one of renown higher learning institution in Malaysia, his passion is always to bring up and develop the best of talent among his students.

One of the reasons why he agreed to accept the appointment as MIFA Patron was that to help his mission and vision, among others, to equip students with industrial exposures from the industry people out there, which include members of MIFA, who are actively involved in all sort of emerging technologies the world has embarked on. He emphasized on the need for students nowadays to be exposed to current trends in technology adopted by various industries as part of their study process in all study program levels.

YBhg Patron said that he always welcomed all MIFA members to collaborate with MSU and urged exco members who were present to constantly communicate with his office for any good opportunities to be explored together.

In concluding his first welcoming speech, YBhg Professor Tan Sri Dr Mohd Shukri promised to support whatever the proposal which will be brought to his attention, provided it must be in line with MIFA's vision and mission and also MSU aspirations.

A big size of Patron's special photo with frame was presented by Mr President, Ts. Muhammad Didi Hendra Shah to YBhg Professor Tan Sri Dr. Mohd Shukri as a token of appreciation on his acceptance of the appointment as the Honorable Patron for MIFA.

Our MIFA delegates were also treated by YBhg. MIFA Patron to a scrumptious "Nasi Mandy" set with selection of fresh fruits and juice for lunch at VIP Diner Hall at the MSU Management Tower, Shah Alam, Selangor Darul Ehsan.



Thank you or the lovely Saturday meet and greet session Prof Tan Sri!

MIFA EVENT LAUNCHING



MIFA expressed gratitude to Deputy Minister Datuk Hj. Ahmad Amzad, Ministry of Science, Technology, and Innovation (MOSTI), MIFA Patron and President of the Management & Science University (MSU) Prof. Tan Sri Dato Wira Dr. Mohd Shukri Ab Yajid to witness the MOU exchange between MIFA and MSU, Cyber Security Malaysia, Crypto Valley, CMG, and Qitmeer in conjunction with the inauguration of the MIFA Launching, MIFA Academy and i4F Forum on 27th January 2022. The event took place in MSU's Performing Arts Theatre (PAT) on in Shah Alam Section 13 campus.



MIFA's goal is to be the foremost community platform that offers exceptional value to its members in relation to Malaysia's Industry4WRD policy. It will bring together relevant stakeholders, entrepreneurs, researchers, and policymakers to provide a powerful voice of influence on the innovation, development, and market deployment of I4.0 and IR4.0 technologies and applications, while also stimulating and spearheading a favorable business environment.

Industry4WRD is a national policy that runs from 2018 to 2025 and aims to change the manufacturing industry and related services in the country. The Ministry of International Trade and Industry, in collaboration with the Ministry of Finance, the Ministry of Multimedia and Communications, the Ministry of Human Resources, the Ministry of Education, and the Ministry of Energy, Science, Technology & Environment spearheaded its development.



CATCHING UP WITH NAZA GROUP CHAIRMAN

On Tuesday, 18th January, the Exco members Malaysia Industry Forward Association (MIFA), we held a catching up with NAZA GROUP. We meet Billionaires like Datuk Wira SM Faisal SM Nasimuddin. Many things we discussed, the main is to introduce Malaysia industry Forward to Datuk Wira SM Faisal SM Nasimuddin.

The content of our discussion is related to the vision of the future that can be framed together with our strengths in the Malaysia Industry Forward Association (MIFA). One of our exco focused on about the potential development of Digital Bank, Crypto Exchange, Blockchain Technology for Traceability, and he quite understands and understands the importance of blockchain technology.

We always stand with MIFA's goal is to be the foremost community platform that offers exceptional value to its members in relation to Malaysia's Industry4WRD policy. It will bring together relevant stakeholders, entrepreneurs, researchers, and policymakers to provide a powerful voice of influence on the innovation, development, and market deployment of I4.0 and IR4.0 technologies and applications, while also stimulating and spearheading a favorable business environment.

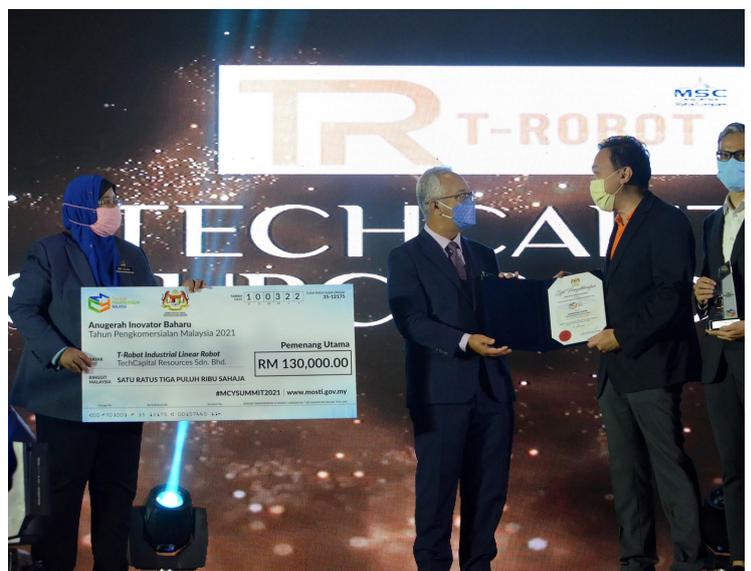
All MIFA exco members who attended this meeting were able to introduce about IR 4.0 and so on. Thank you to Datuk Wira SM Faisal SM Nasimuddin for taking the time to meet with MIFA exco members, we hope that in this meeting we can introduce MIFA in more detail.



EXCO VISIT : T-ROBOT & INDUSTRIAL LINEAR ROBOT

MIFA Exco recently paid a visit to the T-Robot headquarters at MTDC. The purpose of the visit is to take a tour of the robotics facilities and plan for future collaboration, as well as to participate in a discussion about the advantages and problems of robotic applications in the manufacturing business. T-Robot was recently honored with MCY 2021 Award in the New Innovator Award category. Ts. Syed Zaini Putra Al-Jamalullail Bin Syed Yusoff, T-Robot Director, expressed gratitude for the distinction, saying that they could not have done it without the support of their dedicated team.

Well done and congratulations to all recipients of the MCY Award 2021. Nine (9) local researchers and entrepreneurs who have successfully commercialized their R&D products in the local and international markets throughout the year 2021 were recognized through the MCY Award. The rewards, which include trophies and certificates of achievement, are worth a total of RM950,000.00.



BUSINESS COLLABORATION WITH KOLEJ PROFESIONAL BAITULMAL KL

MIFA Academy, the education & training (E&T) arm of Malaysia Industry Forward Association, has been active in exploring opportunities and extend its collaborative networking with public and private learning institutions.

On the 3rd of March 2022, MIFA Academy, represented by its CEO Mr Mohd Zakry and accompanied by MIFA President, Mr Ts. Didi Hendra Shah paid a courtesy visit to Kolej Profesional Baitulmal Wilayah Persekutuan Kuala Lumpur (KPBWPKL), a leading professional college located in the heart of Kuala Lumpur metropolitan.

The visiting delegate was warmly greeted by KPBWKL Chief Executive Officer, YBhg Tuan Radzuan Razali and his executive team Puan Norazah Hashim, the head of Corporate Planning Unit and Puan Salbiah Zainal, the head of KPBWPKL's IT Unit.

Apart from initiating a strategic collaboration between KPBWPKL & MIFA Academy, the aim of the visit was also to present to the professional college executive team about MIFA and its mission & vision. Members of the meeting exchanged their views and concerns on the current and latest trending in the education sector, particularly during the recent Covid-19 pandemic, which has boosted the need for all academic institutions including schools, colleges and universities to fully adopt online and blended learning modes, which has become a new norm these days.

As such, MIFA Academy offers a wide range of practical courses, which can be conducted online and offline, of which are in high demand in the market nowadays, including Industrial Internet of Things, Blockchain & Fintech, Industrial Automation, Big Data Management, Robotics & Drone courses, and all these courses are certified by the relevant bodies and agencies in Malaysia.



In his response, the honorable CEO of KPB Tuan Radzuan Razali commended the effort of MIFA in bringing up these valuable courses and had promised to look into the suggestions carefully, before considering to accept them and offer these courses for their students at all level of studies. In addition to that, he told MIFA Academy delegate that it was always the aspiration of KPBWPKL to upgrade the campus into a fully modern campus by adopting the IOT elements in its building facilities, and they would require the expertise of MIFA members to come forward with any suggestions and a workable proposal for their considerations.





The CEO of KPBWPKL also expressed his great interest to explore into the emerging technologies available to enhance the role and responsibilities of his office in making sure that the learning and training institute, which is a fully subsidiary institute of Majlis Agama Islam Wilayah Persekutuan (MAWIP), are keeping itself updated with the latest technology available for the benefit of its students, lecturers and staff.

He emphasized on the need for lecturers and students nowadays to be exposed to current trends in technology adopted by various industries as part of their study process in all study program levels.

At the conclusion of the visit, a limited-edition physical copy of MIFA's 1st newsletter, "MIFA IN ACTION" was presented by Mr President, Ts Muhammad Didi Hendra Shah to YBhg Tuan Radzuan Razali as a token of appreciation for inviting MIFA Academy to form a collaborative partnership with KPBWPKL.

It is with a great hope that with this collaborative partnership will enhance business visibility and creating a lot of opportunities for the common benefit of all parties involved, in particular MIFA members.

MEETING WITH CEO MIDA

Our MIFA President recently met with the CEO of MIDA to introduce the MIFA mission and how MIFA can venture overseas to expand the market, as well as to discuss MIDA's facilitation of cross-border and direct investment abroad.

MIFA is working hard to open up investment opportunities and make the manufacturing and service sectors more accessible.

MIDA is evolving to become more knowledge-intensive and productivity-driven as Malaysia embraces the Fourth Industrial Revolution. Many global corporations have made Malaysia their hub, catering to their activities throughout the area and beyond, as a result of the rising prospects and cost-competitive business environment.



CYBERSECURITY WORKING VISIT



MIFA President, Mr Ts. Muhaammad Didi Hendra Shah was invited by the Chief Executive Officer of Cybersecurity Malaysia, YBhg Dato' Ts. Dr. Haji Amirudin Abdul Wahab, who is also MIFA special advisor, for a working visit to Cybersecurity Malaysia HQ at Menara Axis, Cyberjaya, Selangor Darul Ehsan.

The working visit was held on 28th January 2022 at Cybersecurity Malaysia, literally one day after the successful launch event of MIFA by the Rt Honorable Datuk Haji Amzad Mohamed, the Deputy Minister of Science, Technology & Innovation (MOSTI).

Mr Ts. Muhammad Didi Hendra Shah led the visiting team from MIFA, including the Chief Executive Officer of MIFA Academy, Mr Mohd Zakry Mohd Sa'ed and Mr Ali, an industry expert of Industrial Internet of Things (IIOT) technology.

Among other things that was discussed during the official visit was a call for MIFA to become Cybersecurity Malaysia's industry partner in promoting the cybersecurity awareness among industry players.

There was also an in-depth discussion between the invites and the host on the need for a special and regulated industry standard which is applicable to the cybersecurity in the industrial IOT (IIOT), as mounted concerns and feedback were received from few industry players on the security part of the data which are being transferred and communicated using multiple devices, before ended up into machines.

YBhg Dato' Ts. Dr. Haji Amirudin Abdul Wahab in his replies positively commended the suggestions and represented concerns and urged MIFA to write in officially to Cybersecurity Malaysia for further discussion and technical considerations on this issue. The special advisor of MIFA also emphasized on the need for MIFA to become the strong voice representing the industry players in influencing and contributing to the policy making process which will benefit the targeted group.

YBhg Patron said that he always welcomed all MIFA members to collaborate with Cybersecurity Malaysia on their respected fields and relevant expertise, as cybersecurity is the major component of all emerging technologies the world has ever seen, and would definitely need a constant engagement with Cybersecurity Malaysia as the safeguarding agency for a safe cyberspace complex environment.

MIFA visiting team were also accompanied by the senior executives of Cybersecurity Malaysia in a walkabout session to Malaysian Security Evaluation Facility (MySEF) labs, which housed the Research and Development Division (R&D) facilities in cybersecurity, which include advanced computers and industrial machines for multiple industries.

A special plaque was presented by Mr President, Ts. Muhammad Didi Hendra Shah to YBhg Dato' Ts Dr Amirudin Abdul Wahab as a token of appreciation for his contribution and consultancy role played as the Special Advisor for MIFA.

It is with hope that MIFA will always be the supporting NGO to Cybersecurity Malaysia in all its activities and agenda, at national and international levels.



MIFA INVOLVEMENT IN KUWAIT



Among the topics are a description of the Smart Vertical Farming project and a drone-based Air Quality Monitoring System. In the hopes that MIFA will become well-known not only in Malaysia but also in developing countries such as Kuwait, which has a high-income economy.

MIFA President and Exco, Dr. Zaiton from UMT, SG Education Group's Dato' Julie Roaini, and corporate representatives are in attendance to discuss commercial expansion potential in Kuwait.



MIFA EVENT PLANNER

Year of

2022

January

22/01/2022

- **MIFA Exco Meeting with Patron @ MIFA**

27/01/2022

- **MIFA Official Launch Event @ MSU**

February

15/02/2022

- **MIFA 2nd Exco Meeting @ MTDC**

22-26/02/2022

- **Advanced Industrial IoT Training**

March

14-18/03/2022

- **Advanced Industrial IoT Training**

22/03/2022

- **Workshop : Smart Urban Farming**

April

- **Ihya' Ramadhan**

22/04/2022

- **Minggu Sains Negara by MOSTI - " Planetary Health & World Earth Day "**

May

30/05-1/6/2022

- **Participating in Hanover Messe Expo 2022 @ Hanover, Germany**

22/05/2022

- **Minggu Sains Negara by MOSTI - " Kimia & Bioteknologi "**

24/05/2022

- **Workshop : Cybersecurity**

June

14-16/06/2022

- **Robotic Controller Programming & IoT Application Training**

18/06/2022

- **MIFA Mid Year Review & Conference**

5/06/2022

- **Minggu Sains Negara by MOSTI - " Sains Nuklear "**

July

7/07/2022

- **MIFA Sports Day**

18-20/07/2022

- **MIFA RoboCon & Drone Fest 2022**

15/07/2022

- **Minggu Sains Negara by MOSTI - " Inovasi Sosial "**

August

17/08/2022

- **Linear Robot and Its Application in SME**

1/08/2022

- **Minggu Sains Negara by MOSTI - " Kejuruteraan 50th Anniversary Board of Engineers Malaysia "**

23/08/2022

- **Seminar : Electrical Vehicle**

September

- **MIFA Courtesy Visits to All Relevant Ministries & Agencies**

7-10/09/2022

- **Minggu Sains Negara by MOSTI - " Nanotechnology " " World Nano Day "**

October

- **ASEAN Industry 4.0 Networking Month (Singapore / Indonesia / Thailand / Brunei)**

4-10/10/2022

- **Minggu Sains Negara by MOSTI - " Space Theme "**

November

17/11/2022

- **MIFA Year End Review & Submit Conference**

28/11/2022

- **Advanced Industrial IoT Training**

December

6-8/12/2022

- **MIFA Academy Virtual Open Day 2022**

19/12/2022

- **Workshop : Big Data**

27/12/2022

- **Workshop : AR/VR**



Prof. (A) Kamaruzaman Bin Jahidin
UNITAR
K6 Tech Sdn Bhd
Solution Architect)

DIGITAL LEADERSHIP

Traditional Leadership

A leader is someone who does the right thing. They choose so not because someone is looking or might notice, but because it's the right thing to do. And this often occurs in difficult or challenging circumstances. Leaders look for solutions. Leaders don't go to their manager with a problem and ask for it to be fixed. They identify an issue and think about potential solutions. Then they present the issue and solutions to seek an opportunity to create changes and improve the situation.

Some people are natural leaders and often find themselves in situations where others look to them for direction. If you're unsure if this quality is one you hold, think back to a time when you have met a challenge within a group. Leaders will often choose the task that no one else is keen to do, to move the whole group forward in accomplishing their goals. Leaders commit to what needs to be done and inspire confidence in those around them that challenges can be achieved.



Leaders normally do linear thinking to solve some issues. They are often trapped in the traditional way of thinking. They are based on instinct and responses from their subordinates. And sometimes they failed to think strategically. That's why leaders need data in order to take action and make decisions. Leaders cannot manage the team if they don't measure it. Traditional leaders often perform a power-driven management style. They always control the subordinates not empowering them.

DIGITAL LEADERSHIP

Digital leadership is the strategic use of a company's digital assets mainly data to achieve business goals and satisfy customers' requirements. Digital leadership is a long-term perspective that leverages available resources to improve and implement anticipating changes within an organizations' culture aims at a common digital competence based on which future concepts can be applied and developed.

An effective digital leader will be aware of the business goals and knows how their job responsibilities support them. At an organizational level, the digital leader could for example be a company that has successfully taken advantage of its digital assets to gain and also maintain a competitive edge. These digital leaders will explore how technology can be used to help their businesses become much more responsive to the needs of their customers and the ever-changing business requirements. Enabling leadership that explores innovations needed to support digital transformation.

A successful digital leader understands the importance of inbound data and the processes within the business that supports it. As quoted by W. Edwards Deming: 'Without data you are just another person with an opinion. From data, leaders can view a situation where they can perform descriptive analytics, diagnostic analytics, predictive analytics, and prescriptive analytics. Digital leaders place a high value on their communication, creativity, and willingness to explore the ways that new emerging technology and digital information can be used to help business projects.

It's also important to also understand exactly what digital transformation means to help understand the role of a digital leader. There are four types of digital transformation: Process Transformation, Business Model Transformation, Domain Transformation, and Cultural & Organizational Transformation. Digital Leader needs to choose which types of digital transformation to start with. Like most companies, they will start with Process Transformation and Cultural & Organizational Transformation. Essentially this is the use of new, fast and frequently changing digital technology that is here to solve problems.



So why is digital leadership so important? Firstly, effective digital leadership helps an organization to create the workflow and business processes that allow these new technologies, products, and services to be rolled out quickly whilst also making sure that any existing legacy applications and IT operations are being maintained.

The benefits of this digital leadership are:

- **It builds a digital culture** – different departments within a business will require different digital tools to improve their work. Having an effective digital leader helps to make this happen within your organization by giving them the right tools available to them.
- **Makes employees more productive** – the tools provided to your organization are designed to increase productivity levels, however, without digital leadership to drive this, employees could struggle to implement and get the most out of these tools. Digital leadership ensures that your workforce can concentrate on using it straight away.
- **Improves customer satisfaction** – a satisfied customer will have no reason to leave your business for a competitor, but a dissatisfied one will have several reasons. Digital leadership can help this by improving and introducing convenience, speed, and customer support, for example. This in turn makes a customer increasingly satisfied with your product or service.
- **Increases revenue** – it's simple, serving more customers in less time is an effective recipe for making more money within your business. There are many ways that digital leadership can help increase revenue. Some of these are:
 - a. Improving retention rate: when you can better serve your customers with digital tools, they become increasingly satisfied and turn into loyal customers.
 - b. Increasing the number of customers served: digital tools help you to serve your customers at a lower operational cost.



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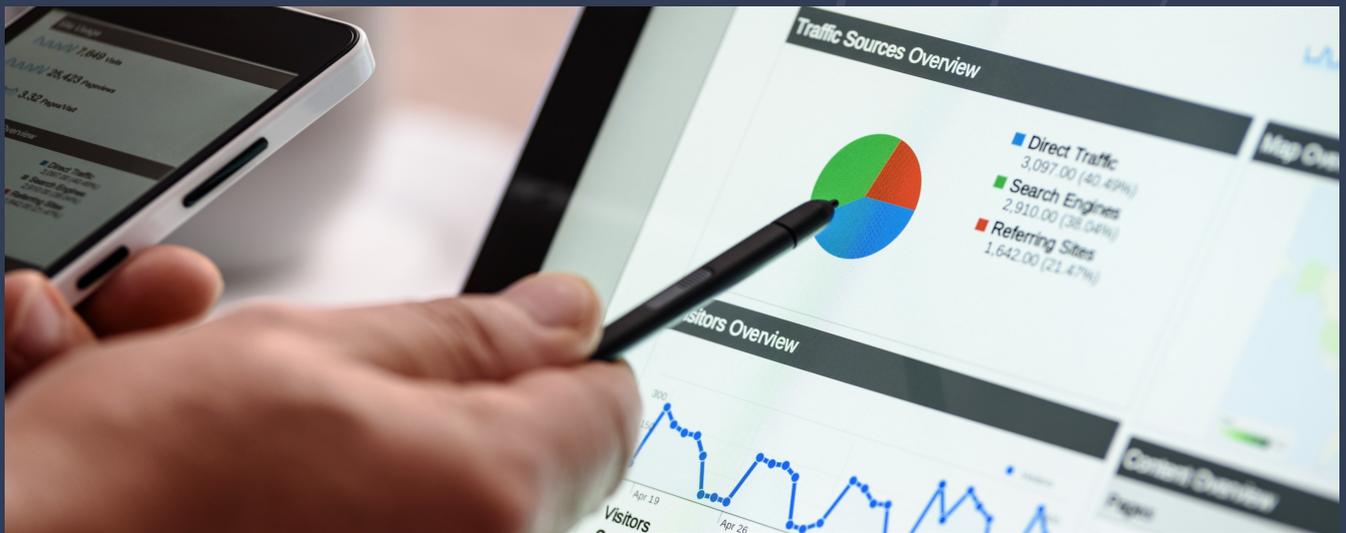
IOT ROLE IN NATURAL DISASTER

Global warming has caused changes in weather patterns today. The average temperature of our planet has increased by 1.2 °C and is projected to increase up to 2.7 °C at the end of the century¹. In the past, Malaysia used to have consistent monsoon weather which dictate rainy and dry seasons in peninsular Malaysia. However, this assumption is no longer true especially proven recently when 8 states in Malaysia were affected due to unexpected few days of heavy rain. Weather stations in Selangor state have recorded a tremendous amount of rainfall which is equivalent to a month's worth of rainfall that has not occurred in 100 years.



The advancement of technology enables us, as a human being to be able to track the amount of rain and river level throughout the year. These data used to be stored isolated and only accessible to certain departments or groups of people. Over the past 15 years, the microcontrollers and sensors cost reduced significantly which enables us to deploy more sensors in the field³. Moreover, the booming of Cloud Server, as well as the arrival of 5G, should be utilized to connect these sensors to create a faster network that could deliver a critical warning to the mass people. In addition to that, users nowadays are using smartphones which enables not only text data being sent over, but with all the high-content media including photos and videos. Seeing is believing. Sensor data can be curated in the form of charts and animation to send a proper message to users, be it danger or non-danger.

The vast volume of data collected at high frequency means nothing without proper data analysis. For example, end-users who are receiving every second of rain reading will not be able to appreciate the value. Instead, these data should be processed through Machine Learning to determine whether the imminent danger is approaching a particular area and only particular end-users should be alerted.



Connected sensors (IoT), high-speed connectivity (5G), cloud servers, and machine learning are the key to the weather alert today. These areas should be grown and utilized not only as business opportunities but also as public service by the government since many souls and assets could be saved if early warning could be delivered to the people. Imagine, if the tremendous rainfall measurement and river level together with river flow prediction could be used to alert users who are living in the potential flood areas, many lives and assets could be saved, and proper planning could be executed.



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SMART BUILDING IN THE CONCEPT OF INDUSTRY 4.0

A smart building is a building that uses technology to enable efficient and economical use of resources while creating a safe and comfortable environment for people. While Industry 4.0 is related to the “fourth industrial revolution” which is the transformative era of technological advancement where automation is increasing, the need for hands-on human interaction is decreasing and data is used for enabling business and industry to grow and change at an unprecedented rate.

The advance of Industry 4.0 boost-up and significantly change the concept and idea of smart buildings which has been around for several years but is not commonplace across the board. Now automation is not the only main idea in the smart building concept. Integral of Internet of Things (IoT) sensors, building management systems, artificial intelligence (AI), and augmented reality are among some of the mechanisms used in smart building to control and optimize its performance. The ways of buildings are designed, constructed, operated, and maintained has changed by implementing smart sensors and systems to allow the system to communicate with each other and collect data to analyze and optimize the management system.



Benefits of Smart Building

The proper smart system and associated Industry 4.0 technology give the building managers access to the previous amount of data that can be beneficial in the future. Here are the main benefits of smart building implementation:

1.Reduced Energy Consumption

Smart building system helps in improve energy efficiency by reducing the need for unnecessary consumption of energy in the building. The smart building should be designed to consume and use energy at a minimum level and avoid waste of energy in unnecessary area. Data collected in the smart building system can be used to identify the loophole and finally optimized the building management system.

2.Reduced Operating Cost

Optimized energy consumption can lead to reducing the operating cost of the building management. This will reduce the building overhead by identifying patterns around under-utilized spaces and predicting the maintenance for the system.

3.Increased Productivity

Socially, a smart building can increase productivity and improve the efficiency of the occupants. The concept of a smart building is to identify and understand how people used and move around the building so the owner can improve the physical layout towards optimization of frequented space while minimizing waste. The building will operate smartly for the people and improve their efficiency in work.

Finally, the smart building uses a wide range of existing technologies. It is designed or retrofit in a way that allows for the integration of future technological development and network and internet become a core in establishing the system.

NO	TRAINING TITLE	DAY(S)	PRICE (RM)
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PROGRAMMING LANGUAGES

1.	JAVA	3	2,500
2.	PYTHON	3	2,500
3.	JSON	3	2,500
4.	NODE-RED	3	2,500
5.	R LANGUAGE	3	2,500
6.	FLUTTER PROGRAMMING	2	2,700
7.	JAVASCRIPT	5	2,600
8.	HTML5	2	1,500
9.	CSS3	2	1,500
10.	TYPESCRIPT	3	1,800
11.	JAVA – Entry level Java Programmer: JAVA SE7 Fundamentals	5	3,400
12.	JAVA – Professional Programmer: JAVA SE7 Fundamentals	5	3,400
13.	JAVA - Servlet & Java server Pages (JSP) Developer	5	3,400
14.	PHP – Beginner to Intermediate	5	2,600
15.	PHP – Oriented Programming (OOP)	5	2,600
16.	PHP 7 Programming	5	2,600
17.	COLDFUSION – Beginner to Intermediate	5	2,600
18.	COLDFUSION - Advanced	5	2,600
19.	C# - Programming C# with Microsoft Visual Studio	5	2,600
20.	R Programming	4	2,200
21.	Secure Programming	5	2,600
22.	Unit Testing Programming	5	2,600
23.	LUCEE	5	2,600

ROBOTICS AND AUTOMATION TRAININGS

24.	PROGRAMMABLE LOGIC CONTROLLER - SIEMENS	3	3,900
25.	PROGRAMMABLE LOGIC CONTROLLER - MITSUBISHI	3	3,900
26.	PROGRAMMABLE LOGIC CONTROLLER - OMRON	3	3,900
27.	PROGRAMMABLE LOGIC CONTROLLER - PANASONIC	3	3,900
28.	PROGRAMMABLE LOGIC CONTROLLER – SCHNEIDER ELECTRIC	3	3,900
29.	PROGRAMMABLE LOGIC CONTROLLER - ABB	3	3,900
30.	INDUSTRIAL HMI	2	2,600
31.	SCADA SYSTEM	5	6,500
32.	ADVANCE PLC, HMI & SCADA SYSTEM	10	11,700
33.	ROBOTIC AUTOMATION	5	6,500
34.	ROBOT OPERATING SYSTEM (ROS)	3	4,700
35.	ARM CONTROLLER & IOT PROGRAMMING	3	3,500
36.	SCARA ROBOT (SELECTIVE COMPLIANCE ARTICULATED ROBOT ARM)	3	5,800
37.	PLC & IOT (PROGRAMMABLE LOGIC CONTROLLER)	3	3,500
38.	LINEAR ROBOT	2	4,500
39..	AUTONOMOUS MOBILE ROBOT	3	4,500
40.	MOBILE ROBOT DEVELOPMENT	3	5,700

INDUSTRY 4.0 – IOT & IIOT TRAINING

41. FUNDAMENTAL OF INDUSTRY 4.0 & INTERNET OF THINGS (IOT)	3	3,500
42. IOT FOR SMART AGRICULTURE	3	3,500
43. IOT FOR SMART CITIES	3	3,500
44. LORA-WAN TRAINING	3	3,500
45. IOT WITH RASPBERRY PI (NODE-RED)	3	3,500
46. IOT WITH RASPBERRY PI (PYTHON)	3	3,500
47. IOT WITH RASPBERRY PI & FAVORIOT	3	3,500
48. BASIC INDUSTRIAL INTERNET OF THINGS (IIOT)	3	3,500
49. ADVANCE INDUSTRIAL INTERNET OF THINGS (IIOT)	5	4,850
50. BASIC INDUSTRIAL INTERNET OF THINGS (IIOT) WITH SIMATIC GATEWAY – CERTIFICATION FROM SIEMENS	3	4,600
51. ADVANCE INDUSTRIAL INTERNET OF THINGS (IIOT) WITH SIMATIC GATEWAY – CERTIFICATION FROM SIEMENS	5	6,500
52. ARDUINO & IOT PROGRAMMING	3	2,700
53. RIG : IOT ALL IN ONE	3	4,500

INDUSTRY 4.0 - CLOUD COMPUTING & BIG DATA TRAININGS

54. CLOUD COMPUTING FOUNDATION	3	3,500
55. DATA SCIENCE FOUNDATION	3	3,500
56. BIG DATA ANALTICS WITH MONGODB ATLAS CLOUD	5	4,800
57. BIG DATA ANALYTICS WITH AWS CLOUD	5	4,800
58. BIG DATA ANALYTICS WITH HADOOP TECHNOLOGY	5	4,800
59. DATA MINING AND WEKA SOFTWARE TOOL	3	4,800
60. BASIC ARTIFICIAL INTELLIGENCE TRAINING	3	3,500
61. MASTERING ARTIFICIAL INTELLIGENCE & DEEP LEARNING	5	4,800
62. ANDROID PROGRAMMING AUGMENTED REALITY (AR)	5	4,800
63. ANDROID APPS	3	2,700
64. MACHINE LEARNING	3	3,700
65. CLOUD COMPUTING	3	3,700
66. BLOCK CHAIN	2	4,500
67. MYSQL DATABASE ADMINISTRATOR	3	1,800
68. MYSQL QUERYING	3	1,800
69. DATABASE DESIGN	3	1,800

DATA ANALYSIS

70. GOOGLE ANALYTICS	3	1,800
71. BUSINESS INTELLIGENCE (BI)	3	2,600
72. MICROSOFT EXCEL DASHBOARD	5	2,600
73. WIRESHARK	2	1,800

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74. JAVA	3	2,200
75. PHP	3	1,800

DISTRIBUTED VERSION CONTROL

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MOBILE APPS

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78. CROSS-PLATFORM: REACT NATIVE	5	2,600
79. UI FRAMEWORK: IONIC FRAMEWORK	5	2,600
80. UI FRAMEWORK: FLUTTER FRAMEWORK	5	2,600
81. NATIVE: JAVA FOR ANDROID	5	2,600
82. NATIVE: SWIFT FOR IOS	5	2,600

UI FRAMEWORK

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84. VUE JS	5	2,600
85. EXT JS	5	2,600
86. REACT JS	5	2,600
87. METEOR JS	5	2,600
89. BOOTSTRAP	3	1,800
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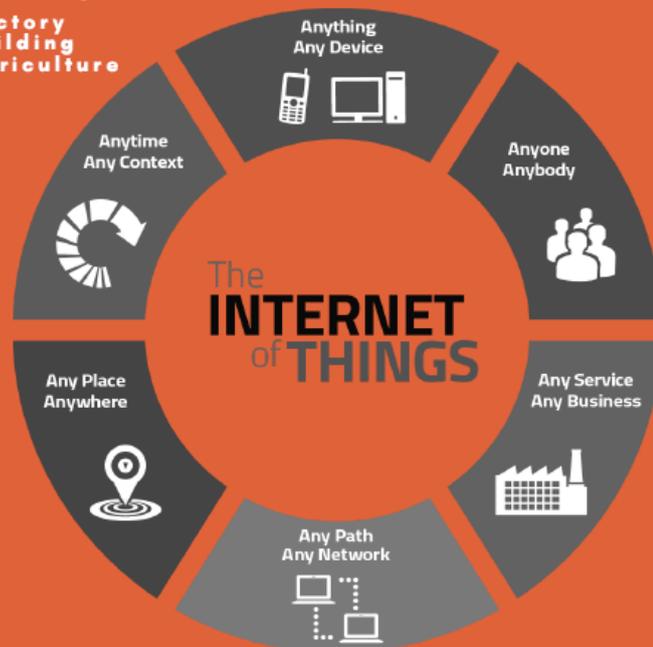
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