

# Virtual Half-Day Workshop on “Autonomous Robotics in Modern Manufacturing: Innovations Shaping Tomorrow’s Industries”



10 January 2026, Saturday  
9.00 am – 1.00 pm



Zoom Platform

BEM Approved CPD: 4 Hours  
CPD Ref No.: IEM25/HQ/600/W (w)



Ir. Ts. Sukhairul Nizam Abdul Razak



**Register Now!**

**Closing Date: 2 January 2026**

## REGISTRATION FEE'S (subject to 8% SST)

	Online	Normal
IEM Student Members	RM40	RM50
IEM Graduate Members	RM75	RM90
IEM Corporate Members	RM125	RM150
Non-IEM Members	RM240	RM300



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# SPEAKER’S PROFILE

Mr. Ts. Sukhairul Nizam Abdul Razak holds a Bachelor’s in Mechanical (Aeronautical) Engineering from UTM Skudai and an MBA from Charles Sturt University, Australia. He is a registered ASEAN Chartered Professional Engineer (ACPE) and a Professional Mechanical Engineer with a practicing certificate (PEPC) from the Board of Engineers Malaysia, in addition to being a certified Professional Technologist (MBOT).

With a career spanning over two decades, he began as a Body Design Engineer in R&D at Proton Manufacturing in 1995, later holding diverse roles including Branch Sales Manager, Warranty Operations Manager, and Head of Division at Proton Edar. He has also contributed to international projects, such as with Accenture Malaysia for the Daimler Group.

His extensive industry experience includes designing and developing automotive components, overseeing anti-corrosion and painting systems, aerodynamic refinement, and crash testing for the national automotive company. Beyond engineering, he specializes in automotive sales training, coaching, and product recall management.

In the academic sphere, he has served as a Senior Lecturer at City University Malaysia, Programme Coordinator at First City University College, and as Regional Director at Leanmax Pro Sdn Bhd. Currently, he is the Managing Director of Enviroklar Tech Sdn Bhd.

With a foundation in aeronautical engineering, Mr Ts Sukhairul Nizam has further pursued drone pilot training and regularly teaches autonomous robotics and drone technology to computer science and engineering students, graduate engineers, blending hands-on industry expertise with modern educational insight.

## SYNOPSIS

Join us for an engaging half-day workshop that uncovers the essential concepts and real-world impact of autonomous robotics in today’s manufacturing environment. Discover how intelligent robotic systems are elevating productivity, improving precision, and transforming processes across assembly, inspection, and quality management.

Participants will also gain insights into the practical challenges of integrating autonomous technologies and explore emerging trends such as smart factories, advanced automation, and human-robot collaboration in the era of Industry 5.0. Whether you’re expanding your engineering expertise or exploring new career pathways, this session provides a clear and forward-looking perspective on how autonomous robotics is redefining the future of manufacturing.

### WHY SHOULD YOU ATTEND THIS WORKSHOP?

- 1.Understand the basics and advancements in autonomous robotics.
- 2.Learn real-world applications and industry use cases.
- 3.Gain insights into overcoming challenges in robotics integration.
- 4.Discover emerging trends shaping the future of manufacturing robotics.

### WHO WILL BENEFIT WITH THIS WORKSHOP:

- Engineering students with an interest in manufacturing industries.
- Engineers and professionals eager to explore robotic integration.

## PROGRAMME

**\* IEM reserves the right to postpone, reschedule, allocate or cancel the workshop**

Time	Programm
9:00 am	<b>The Fundamentals of Autonomous Robotics</b> <ul style="list-style-type: none"><li>• What are autonomous robots?</li><li>• Key technologies: sensors, actuators, AI, and machine learning.</li><li>• Evolution of robotics in manufacturing.</li></ul>
10:30 am	<b>Applications of Autonomous Robotics in Manufacturing</b> <ul style="list-style-type: none"><li>• Autonomous robots in assembly, material handling and inspection.</li><li>• Case studies from leading manufacturing sectors.</li></ul>
11:30 am	<b>Challenges and Opportunities in Implementing Autonomous Robotics</b> <ul style="list-style-type: none"><li>• Barriers to adoption: cost, skills gap, and integration.</li><li>• Overcoming challenges: training, collaboration, and innovation.</li></ul>
12:30 pm	<b>Future Trends in Autonomous Robotics for Manufacturing</b> <ul style="list-style-type: none"><li>• <b>Robotics and Industry 5.0.</b></li><li>• Smart factories and human-robot collaboration.</li></ul>
12.45 - 1:00 pm	<b>Q &amp; A Session and Adjourn</b>

REGISTRATION FORM

Virtual Half-Day Workshop on “Autonomous Robotics in Modern Manufacturing: Innovations Shaping Tomorrow’s Industries”  
10 January 2026 (Saturday)  
Closing Date: 16 January 2026  
Email: suriani@iem.org.my

REGISTRATION FEE'S (subject to 8% SST)		
	Online	Normal
IEM Student Members	RM40	RM50
IEM Graduate Members	RM75	RM90
IEM Corporate Members	RM125	RM150
Non-IEM Members	RM240	RM300

NAME	MEMBERSHIP NO. / GRADE	FEES (RM)
Sub Total:		
SST Added 8% :		
Total Amount Payable :		

PAYMENT DETAILS :

- ☐ Cash RM\_\_\_\_\_
- ☐ Cheque no. \_\_\_\_\_for the amount of RM \_\_\_\_\_(non-refundable) .

**FULL PAYMENT must be settled before commencement of the course**, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE the closing date**. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Person: \_\_\_\_\_Designation:\_\_\_\_\_

Name of Organization: \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

Telephone No. : \_\_\_\_\_(O) \_\_\_\_\_(Fax No.)

\_\_\_\_\_ (H) \_\_\_\_\_(HP)

Email : \_\_\_\_\_

\_\_\_\_\_  
Signature & Stamp

\_\_\_\_\_  
Date