FUTURE MANUFACTURING SERIES

WORKSHOP ON CONNECTED FACTORY

Building the Industrial Data Backbone with Unified Namespace (UNS)

Day 1

Date: 4 Nov 2026
Time: 1530 - 1730
Venue: Room 1, MITI
BEM Approved CPD/PDP: 2.0 Hours
Ref. no.: IEM26/HQ/520/W

Day 2

Date: 5 Nov 2026
Time: 0900 - 1100
Venue: Room 1, MITI
BEM Approved CPD/PDP: 2.0 Hours
Ref. no.: IEM26/HQ/520/W1

Moderator: Ir. Prof. Dr Tan Chee Fai
Trainer: Danny Lim Thiam Lai
Fees: FOC

Scan for registration

Synopsis:

The workshop introduces participants to how a Unified Namespace can create a structured, contextualised and reusable industrial data foundation across machines, automation systems, MES, ERP and digital applications. Discussions will explore common factory data challenges, interoperability, information architecture, MQTT-based connectivity, data context, scalability and readiness for AI and advanced analytics. The workshop aims to help participants understand the practical role of UNS in reducing data silos, improving system integration and enabling more agile, scalable and future-ready smart manufacturing environments. Participants will leave with a clearer understanding of UNS principles, key implementation considerations and practical pathways for progressing from fragmented industrial data towards a connected, AI-ready factory architecture.

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IEM The Institution of Engineers, Malaysia
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DANNY LIM THIAM LAI

Trainer Profile

Danny Lim Thiam Lai is an accomplished Malaysian engineering professional, entrepreneur, and technology innovator with extensive experience in industrial automation, robotics, manufacturing engineering, and Industry 4.0 solutions. He holds a Master of Science in Industrial and Systems Engineering from Universiti Putra Malaysia and a Bachelor of Applied Science (Honours) from Universiti Sains Malaysia.

Since beginning his engineering career in 1989, Danny has built a distinguished track record spanning semiconductor manufacturing, engineering management, industrial consultancy, and technology entrepreneurship. He is the founder of Intellogic Technology Sdn. Bhd., a Malaysian Digital (MD) Status company established in 1996 and contributed to the development, design and built of industrial IIOT edge devices, MES and AI platform for the manufacturing industries. He provides technical training and engineering consultancy through Universiti Putra Malaysia and IK Academy.

His engineering expertise encompasses the design and implementation of advanced automation systems, robotic applications, precision machinery, programmable logic controller (PLC) systems, industrial Internet of Things (IIoT), production monitoring, data acquisition, and smart factory solutions. His project portfolio spans diverse industries, including automotive, electronics, food processing, pharmaceuticals, and manufacturing.

Danny's commitment to engineering excellence is reflected in his contributions to technological innovation, robotics development, applied engineering research, and industrial automation. His work has received recognition from industry and engineering communities, demonstrating his dedication to advancing practical engineering solutions and manufacturing capabilities.

He is an ASEAN Engineering Technologist and an Associate Fellow of the Academy of Engineering and Technology of the Developing World (AETDEW). He is also a registered member of the Malaysia Board of Technologists (MBOT) and a member of the Institution of Engineers Malaysia (IEM) Manufacturing & Industrial Engineering Group.

Beyond industry, Danny actively contributes to engineering education and professional development as an Industrial Advisory Panel member at German-Malaysian Institute and MAHSA University, an invited speaker, trainer, and technical consultant. Through knowledge sharing, talent development, and the integration of engineering with digital technologies, he remains committed to improving industrial productivity, strengthening Malaysia's engineering capabilities, and helping businesses embrace smart manufacturing and future-ready technologies.