

Webinar talk on “ABCDE The World: Blockchain, IoT and Smart Cities: What’s in It for the Automotive Engineering Industry?”

BEM Approved CPD Hours: 2
Ref No: IEM25/HQ/628/T (w)

Date : 24th Jan 2026 (Saturday)
Time : 10.00 am - 12.00 pm
Platform : Zoom
Speaker : Mr. KOH HOW TZE



REGISTRATION FEES IEM
Students: Free
IEM Members: RM15
Non-IEM Members: RM70

Biodata Speaker



Koh How Tze is an author, speaker, futurist, and strategic business & technology advisor to companies and governments. He advises organizations to improve their efficiency and performance strategically by using emerging technologies like Artificial Intelligence (AI), Blockchain, Computing, Big Data, etc., with underlying Ethical elements. An entrepreneur with a Degree of Bachelor of Engineering (Computer) from the University of Technology Malaysia (UTM), Skudai, Johor, he has been serving business clients since the dinosaur age of the internet. He started his career as a system architect and programmer working on Web Based Retail Management System during an era where people were still using dial-up connections with 56k modems (the fastest at that time) to go “online.” He witnesses how the Information Communication Technology (ICT) industry progressed from the DOS-based system era to the modern cloud computing era, bringing about changes and progress to the world today. His clients include start-ups, Small and Medium Enterprises (SMEs), Multi-National Companies (MNCs), charitable organizations, and government agencies. Throughout his 25 years+ career path (since 1997), with numerous project implementation and system management, he understands the ICT systems and their implications across multiple disciplines. An advocate for sustainable developments, he is committed to the movement of ABCDE The World, which is building an AI-driven, Blockchain-based Cognitive resource management system powered by Data, Ethically. Being one of the beneficiaries of open source software ideology, he is willing to share wholeheartedly whatever experience and expertise deemed suitable for the right audience. He firmly believes that the best way to predict the future is to create it, and the best way to formulate the future is to connect the dots forward, consciously and strategically.

Synopsis

The automotive industry is at a historic crossroads, transitioning from traditional mechanical engineering to a software-defined, hyper-connected mobility ecosystem. As vehicles evolve into "computers on wheels," the roles of engineers are being redefined by the convergence of Blockchain, the Internet of Things (IoT), and the infrastructure of Smart Cities. This third installment of the "ABCDE The World" series explores how the ABCDE Framework—comprising Artificial Intelligence, Blockchain, Connectivity, Data, and Ethics—is revolutionizing the automotive sector. This session will move beyond the theoretical to discuss how these technologies solve real-world engineering challenges in the era of Connected, Autonomous, Shared, and Electric (CASE) mobility.

Key areas of discussion include:

- **Blockchain in Automotive:** Beyond cryptocurrency; how distributed ledgers ensure trust in supply chains, secure vehicle-to-everything (V2X) communication, and enable "Vehicle Identity" for autonomous transactions.
- **IoT & Connectivity:** The role of IoT as the sensory nervous system for modern vehicles, enabling real-time predictive maintenance, over-the-air (OTA) updates, and fleet optimization.
- **Smart City Integration:** How the automotive industry acts as a crucial node in the urban ecosystem, focusing on intelligent traffic management, EV-to-Grid (V2G) energy balancing, and the future of urban mobility.
- **The ABCDE Perspective:** Navigating the technical and ethical implications of data privacy, cybersecurity, and the shift from "product-based" to "service-based" automotive engineering.

Participants will gain strategic insights into how they can future-proof their careers and organizations by "connecting the dots" between these disruptive technologies. This session aims to empower engineers to transition from traditional designers to architects of a resilient, sustainable, and intelligent transport future.