



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## Talk on “IED & IoT”

Organised by: the Electrical Engineering Technical Division, IEM  
BEM approved CPD Hours: 2 Ref No: IEM16/HQ/262/T

**Date** : 1<sup>st</sup> October 2016 (Saturday)  
**Time** : 9.00am – 11.00am  
**Venue** : Cs &TUS Lecture Hall, 2<sup>nd</sup> Floor, Wisma IEM, Petaling Jaya  
**Speaker** : Fong See Ni

### SYNOPSIS

Intelligent Electronic Devices (IED) started gaining popularity since '80. The advances in microprocessor and telecommunication technologies over the last 30 years has brought about a paradigm shift for IED. It has been transformed from a standalone single-function IED to a complex multi-function IED of a SCADA system. With the coming of Internet of Things (IoT) and Big Data, IED will be transformed into an IoT. The potential of these transformed IEDs will be limitless, changing the way on how we use IED for electrical power protection, monitoring and control.

### The talk covers

- What is an IED?
- What is IoT and Big Data?
- Embedded system and its various essential components?
- From standalone system to connected system
- The effect of IoT and Big Data on the future of IED
- Some possible applications

### Speaker's Biodata

**Fong See Ni** is the co-founder and Director/Chief Technology Officer of Mikro MSC Berhad. He obtained his bachelor's degree in Electrical Engineering from University of Malaya in 1986. Since graduation, Mr. Fong has been involved extensively in the research and development of electronic and electrical products. Between 1986 and 1991, he was involved in the hardware and software development of building security systems, fire alarm systems, moving message display systems and other electronic devices & systems. Prior to his current position, Mr. Fong has worked in an air conditioning related electronic manufacturing company, responsible for the R&D, marketing and operation activities. In his tenure there, Mr. Fong invented and patented the built-in starter for air conditioners. Currently, he is involved in R&D and technical activities of Mikro, responsible for the technical development and activities.

**Ir. Yau Chau Fong**  
Chairman  
Electrical Engineering Technical Division, IEM

### ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (**pre-registration and online registration are NOT required**).
- Non members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of **RM15**. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

### ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

### PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

### CPD HOURS CONFIRMATION

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Membership No: .....

Signature: .....