

Registration Form

HALF DAY WORKSHOP ON ROBOTICS

22 March 2018, Thursday, 9.00am to 12.30pm. | TUS Lecture Room, Wisma IEM

Name of Organisation _____
 Mailing Address _____
 Email: _____ Hand Phone: _____
 Tel (Office): _____ Fax: _____
 Contact Person: _____ Designation: _____

I/We wish to enrol the following person(s) for the above-mentioned Course:

| Name | Reg. Fee (RM) |
|----------------------|---------------|
| | |
| | |
| | |
| SUB TOTAL | |
| ADD GST @ 6% | |
| TOTAL PAYABLE | |

Enclosed herewith a crossed cheque No. for the sum of RM issued in favour of "The Institution of Engineers, Malaysia" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/we withdraw after my/our application is/are accepted by the Organizing Committee but substitution of participant will be allowed. If I/we fail to attend the workshop, I/we will still pay the registration fee in full.

Signature: _____ Date: _____

| Registration Fee (6% GST included) | | |
|------------------------------------|--------------------|--|
| GRADE | ONLINE / OFFLINE | REMARK |
| IEM MEMBER | RM 50.00 per team | 1 TEAM: 1 Adult (IEM Member) AND 1 Child (10 years old and above) |
| NON IEM MEMBER | RM 150.00 per team | 1 TEAM : 1 Adult (NON IEM MEMBER) AND 1 Child (10 years old and above) |

PERSONAL DATA PROTECTION ACT

I have read and understand 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.

Cancellation Policy

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with prior notification and substitute will be charged according to membership status.

Correspondence

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 Bangunan Ingenieur, Lots 60/62,
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**GST is implemented
effective of 1 April 2015**



HALF DAY WORKSHOP ON ROBOTICS

Date/Time : 22 March 2018, Thursday, 9.00am to 12.30pm.

Venue : TUS Lecture Room, 2nd Floor, Wisma IEM

Organised by: Information and Communications Technology Special Interest Group, IEM

BEM Approved CPD/PDP hours: 3.5 Ref No: IEM18/HQ/103/W

Limited to
20 team
only

PREREQUISITES: As this is a hands on class, participants are required to bring your own Laptop.
 (All the necessary software will be provided during the class)

SYNOPSIS

Robotics is a multi-disciplinary subject which combines electronics, computer science and mechanics, among many other subjects as well as 21st century workplace skills like collaboration, creativity, critical thinking and problem solving. It is not taught in the main school curriculum, however, a lot of people still pursue it as a hobby and a fun way to discover science. In this workshop, we will teach robotics and coding using LEGO EV3 Mindstorms and VEX IQ robotics kits. Participants will learn how to design, build and program a robot and finally compete in a mini robot contest.

- Learn robot kit hardware
 - LEGO EV3 Mindstorms (3rd generation LEGO robots)
 - VEX IQ
- Learn coding
 - LEGO EV3 Mindstorms programming using National Instruments LabView-based software
 - VEX IQ using ROBOTC
- Learn 21st Century soft-skills
 - Collaboration and teamwork
 - Critical thinking
 - Creativity and imagination
 - Problem solving
- The workshop assumes participants have keen interest in electronics or robotics
- Participants recommended to bring laptops with install permissions

BIODATA OF SPEAKER



Mr. Mickey Koh graduated from the National University of Singapore with an honours degree in Mechanical and Production Engineering in 2000. He was selected to be a pioneer member of a technology transfer team for a waferfab start-up in Singapore for Philips Semiconductors, Taiwan Semiconductor Manufacturing Company (TSMC) and the Economic Development Board of Singapore (EDB) in June 1999 and spent two years in Nijmegen, Holland acquiring semiconductor engineering skills. He led work improvement teams which generated patents and was recognized by Spring Singapore with the MultiMillion Dollar Project Award 2003 and the Eureka Award 2004.

Upon his return to Malaysia after 35 years of being abroad, he noticed an urban-rural divide in terms of STEM (Science, Technology, Engineering and Mathematics) education and co-founded Applied Kinetics to use robotics and coding to promote STEM subjects and problem-solving skills to school children in the Central Spine region. Applied Kinetics was selected by Cradlefund as a promising start-up to participate in the Coach & Grow Programme Season 4 2017 with a RM30,000 business coaching grant.

He has coached students to win the global Google Lunar XPRIZE Moonbots challenge in 2015 and 2017 as well as a gold and a silver medal at the Japan Design and Innovation Exposition 2017. Besides raising awareness in STEM education, he also does corporate team building, innovation and problem-solving workshops.

He is also ex-military and currently does war-simulation software testing in his spare time.