

## Multiphysics Simulation for Defense Industry

**14th August 2017 | 9 am - 5 pm**

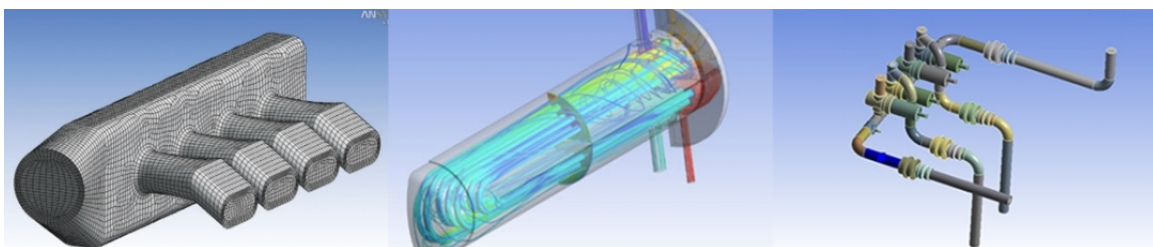
CAD-IT Consultants (Asia) Pte Ltd,  
159 Sin Ming Road #03-05 Amtech Building,  
Singapore 575625

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Register now for this one day Multiphysics workshop intended to familiarise you with ANSYS technology.

The workshop will be a mixture of technical presentations followed by a hands-on workshop sessions on topics related to High Frequency Electromagnetic, Structural and Fluid Dynamics analysis, specific to the Defense Industry.



### Agenda

*Morning Session: 9am - 12pm*

**Introduction to ANSYS Electromagnetic Solver and its applications**

## **Presentations**

Introduction to High Frequency Electromagnetic analysis

EMC/EMI related topic – channel interference and field solving

Multi-physics analysis – High or low frequency electromagnetic analysis

couple with flow and structural solvers for thermal stresses, heat dissipation analysis.

## **Workshop**

EMI analysis – signal interference between two radio communication devices

EMI analysis – radiation analysis on a PCB in a casing

*Afternoon Session: 2pm - 5pm*

## **Introduction to ANSYS CFD and Structural Solver and its applications**

### **Presentations**

Introduction to Structural analysis (Vibration, linear and non-linear contact and material, composite)

Introduction to Fluid dynamics analysis (ANSYS Fluent and ANSYS Mechanical)

Fluid Structural Analysis with ANSYS Fluent and ANSYS Mechanical

### **Workshop**

Multiphase Fluid dynamic analysis

One-way Structural FSI for a flow Probe

Modal analysis of suspension system of Tank, In order to avoid resonance of suspension system

Stress analysis of structure and optimization of stiffeners

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## **Presenters' Profile**



**Dr. Zheng Boyu** (left) joined CAD-IT in 2013, after working as team leader and R&D engineer in various organisations such as Institute of

Microelectronics (A\*STAR Singapore), United Test and Assembly Centre, EPCOS, and Huawei. He holds a Ph.D. from Nanyang Technological University, Singapore.

Dr Boyu has a strong background in RF/Microwave, wireless, and microelectronics with more than 14 years' experience in the research and development of RF circuits, antennas, and high-speed systems including design and electrical modeling, optimisation, prototype development and testing. He has also 6 years' experience in microelectronic industry focusing on advanced packaging development. Dr Boyu is now a Lead Technical Consultant for ANSYS's electronics business unit in the region.

*Dr. Zheng is the trainer for the Electromagnetics Workshop (morning session)*

**He Yawei** (middle) joined CAD-IT in October 2015. He has two Masters degrees, from NTU and Wuhan University of Technology. Prior to joining CAD-IT, he worked as a Mechanical design engineer and had been in charge of 10 projects within 4 years. He is currently an Applications Engineer, focusing on ANSYS Multiphysics (Mechanical +Maxwell+ SCADE).

*He Yawei is the trainer for the Structural Workshop (afternoon session)*

**Dr Vincent Chai** (right) is currently a technical consultant at CAD-IT Consultants (Asia) Pte Ltd. He is part of the technical team that supports customers in various disciplines. He graduated from NTU with a Ph.D. in Mechanical and Aerospace Engineering, where his thesis is focused on flapping wings aerodynamics for unmanned vehicles. He has worked as a project officer for DSTA project on debris flight analysis and as a Research Engineer at NIDEC Singapore.

*Dr Vincent is the trainer for the Fluid Dynamics Workshop (afternoon session)*



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