



## Preparing Geometries for FEA Analysis using SpaceClaim

### Introduction

Traditional CAD software, designed for manufacturing documentation, is not optimized for CAE experts. Before SpaceClaim, CAE users were forced to use CAD tools designed for CAD specialists or ask the CAD team to create or simplify models for them. The result: wasted time and energy. All too often, engineers wouldn't be able to perform simulation until after the detailed models were complete, causing unnecessary compromises and time-consuming changes late in the process.

### Objectives

This hands-on workshop provides attendees the opportunity to explore the advantages of SpaceClaim for simulation.

In this workshop, we'll show you how SpaceClaim can:

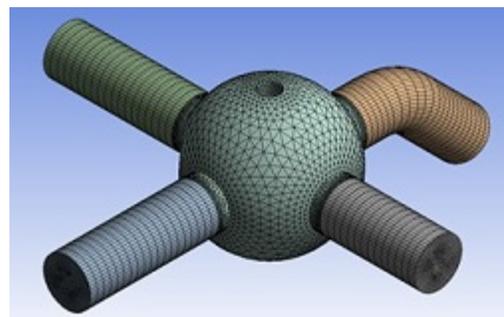
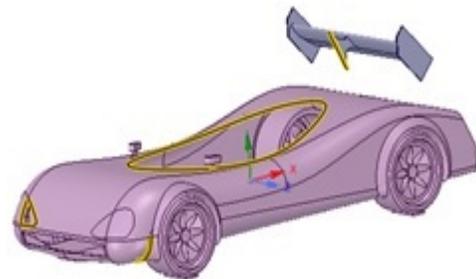
- Open and edit parts from any CAD system
- Detect and repair common issues with CAD geometry
- Remove unnecessary small features such as rounds and holes
- Check for shared topology and ensure non-manifold junctions
- Add your own custom driving dimensions to optimize CAD parts
- Create and edit new concepts to drive detailed design

### Benefits

ANSYS SpaceClaim Direct Modeler is the easiest and fastest solution to prepare geometry for simulation. SpaceClaim's direct modeling solution speeds up time to analysis by removing the geometry bottleneck, and it shortens the time needed for analysis by allowing engineers to simplify models during pre-processing. SpaceClaim also provides a CAD neutral environment, freeing engineers to focus on the physics and modeling.

### Who Should Attend

Engineering Managers, Design Engineers, CAE Analysts



## What customers say about SpaceClaim

"Before SpaceClaim, it took four or five hours to completely clean up and prepare a model. Now we can do this job in five minutes."

**Alexander Häse, Director of Engineering, Salzgitter Mannesmann Forschung**

"We use CATIA in-house because it's driven by our major automotive customers. It's fine as an engineering design tool, but it's so laborious to create thoughts and ideas in non-complex models quickly. We were looking for some quick but high powered kit and SpaceClaim dropped into that space."

**Jason Glasse, General Manager, Expert Tooling and Automation**

"We used to spend a lot of time and resources in making our customers deliver the CAD drawings with the required level of detail, which was a time drain and ineffective. Now with SpaceClaim, I can continue to make edits and perform simulation as a continuous loop until we're satisfied with the results. This has saved us at least 50 percent in time to model."

**Casper Falkenstrøm Mieritz, Consulting Engineer, Highvoltage.dk**

"SpaceClaim is really a hands-on tool for us to make prototypes. Rather than being bogged down with CAD file conversions, we can work quickly, creatively and easily to ensure our customers receive designs that optimize their automotive or appliance products. With SpaceClaim, you just pull, move, fill and combine and you're done...SpaceClaim is easy and flexible. The software does everything we need it to do. It's so cost effective it's almost too good to be true."

**Kevin Woody, Co-Owner, Auto Metal Craft**

## Presenter Profile



Ahmad Faridzul Hilmi bin Shamsuddin is an Applications Engineer with CAD-IT Consultants (M) Sdn Bhd. He has a Masters degree in Mechanical Engineering from University of Applied Sciences RheinMain in Germany. Before joining CAD-IT Consultants, he worked with Perusahaan Otomobil Nasional Sdn Bhd (PROTON) for 2 years in Computer Aided Engineering (CAE) Strength department under Research and Development (R&D) division, where he was involved in different kinds of analysis using various simulation software solutions.

## Event Information

**Date** : 29th September 2015 (Tuesday)  
**Time** : 9:00 am - 12:30 pm  
**Venue** : CAD-IT Consultants (M) Sdn Bhd  
605, Block A, Kelana Centre Point, No. 3, Jalan SS 7/19,  
Kelana Jaya 47301 Petaling Jaya, Selangor, Malaysia ([view map](#))

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- Register online for this **FREE** event.
- CAD-IT Consultants reserves the right to cancel or postpone the event due to unforeseen circumstances.

For enquiries, please call **03-78064758** or email at [eventsml@cadit.com.sg](mailto:eventsml@cadit.com.sg)

## About CAD-IT Consultants

Founded in 1991, CAD-IT is a leading global ISO 9001:2008 certified Product Life Cycle Management (PLM), manufacturing and education provider. CAD-IT's mission is to provide world-class solutions and services that enable companies and their supply chains to achieve greater product innovation, quality and productivity with drastically reduced time-to-market and costs.

CAD-IT is honored to have received over 80 international and national awards since its inception for marketing and service excellence. Among its most recent accolades are the Singapore Enterprise 50 Award (2014, 2013, 2012), Singapore SME 1000 (2014, 2013, 2012, 2011), Asia Pacific Entrepreneur Award (APEA) - Outstanding Entrepreneur Award (2012, 2010, 2009), the Singapore Prestige Brand Award SPBA - Established Brand Award (2012, 2011, 2010, 2009), SPBA - Regional Brand Award 2012 and SPBA - Hall of Fame 2012.

CAD-IT Consultants' suite of PLM solutions include ANSYS (System-level, Multiphysics Simulation), Goldfire Innovator (Innovation Process Management), Moldflow (Plastics CAE), Stampack (Sheet Metal Forming), Deform (Bulk Metal Forming CAE), SpaceClaim (3D Direct Modeler), Mentor Graphics Valor DFM (Design For Manufacturing), Valor MSS (Complete Manufacturing Execution Suite) and Cortona3D (3D Technical Documentation).

Since February 2010, CAD-IT has partnered the Singapore Workforce Development Agency (WDA) to offer Advanced Certificate courses in PLM and Engineering Simulation, under the Workforce Skills Qualifications (WSQ) framework, with the charter to upgrade the technological capabilities of organizations in Singapore so as to enable them to undertake high value-add design, engineering, manufacturing and R&D activities.



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