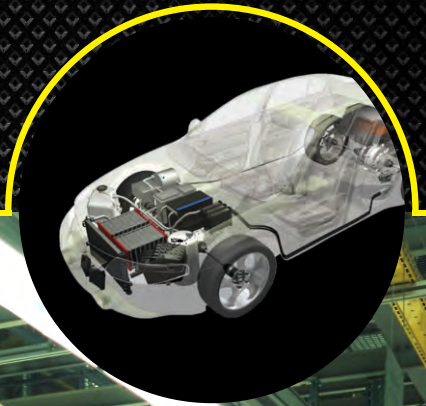
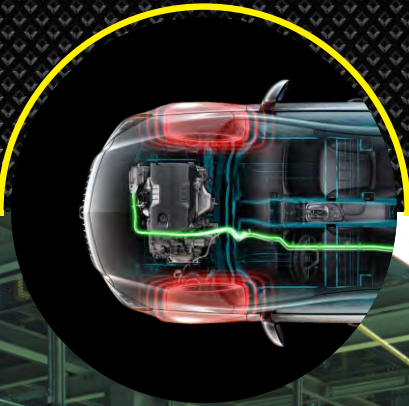


WORKSHOP ON  
AUTOMOTIVE SYSTEMS DESIGN  
AND VALIDATION

July 10<sup>th</sup> – 12<sup>th</sup>, 2013



## WORKSHOP OBJECTIVE

For the past 20 years, ALTEN has been working with the major OEMs and Tier-1s in the European automotive industry by providing technology consulting to speed up innovation and reduce time-to-market by overcoming problems associated with new product industrialization. ALTEN is bringing its know-how and industry best practices to India to help automotive OEMs and Tier-1 suppliers based in India exploit our real-world experience via a workshop.

The workshop will focus on the following areas:



### Powertrain System Architecture

- System simulation & components
- Components integration
- System calibration



### System Integration & Testing

- HW / SW integration
- Automated system validation
- Stressed SW testing



### Control Algorithm Design

- Control strategy design
- SW modules development (Autosar)
- Verification & validation



### OBD and Functional Safety

- OBD, Fault detection algorithms
- Diagnostic manager and services
- RAMS, Safety design and analysis
- ISO26262 - Standards and compliance

## SPEAKERS

For this workshop, ALTEN has a diverse, transnational group of speakers, each with extensive, real-world automotive experience spanning several decades.

**Didier MARCHET**



**Automobile Project Director and International Development, ALTEN**

Didier MARCHET has more than 2 decades of experience in the automotive industry. At ALTEN, he heads the Automobile OEMs Program and is also the Director of operations engineering companies Products & Processes. Before moving to ALTEN, Mr. MARCHET has worked in companies such as Valeo, Idestyle and Polymonth.

**Rémi CLÈVE**



**Head of Competence Center Direction for Mechatronics System Engineering, ALTEN**

Rémi CLÈVE has extensive experience in the areas of Diesel Engine control, EMS, Safety function, ISO26262, Model-based Development, Process Validation MIL, SIL and HIL functions, CM & DIAG. Prior to joining ALTEN, Mr. CLEVE has worked in several leading automobile manufacturers such as Renault, Delphi Diesel.

**Rajashekhara MURTHY**



**Senior Manager - Automotive Systems, ALTEN India**

Mr. Murthy has a decade of experience in the automotive industry working in the areas of ECU validation, Diagnostics and control algorithm validation, Systems engineering, HIL systems and test automation on projects for leading OEMs such as GM, Isuzu, Daimler, Hyundai etc. Prior to joining Altén, Mr. Murthy was with Delphi, Technical center India.



## WORKSHOP AGENDA

Time	Session →
9:30 am	Welcome Address
10:00 am	<b>ALTEN Automotive competency</b> <ul style="list-style-type: none"><li>a. ALTEN group introduction</li><li>b. About ALTEN India</li><li>b. Automotive competency in India</li><li>c. Focus on control systems-powertrain expertise</li></ul>
11:00 am	RAMS
11:45 am	Coffee Break
12:15 pm	HIL Solutions
01:15 pm	Lunch
02:15 pm	<b>HIL demonstration</b> <ul style="list-style-type: none"><li>a. Validation on HIL, Turn-key validation</li><li>b. ALTEN validation suite- UCM, Matelo, B2iAS,</li></ul>
04:00 pm	Vote of thanks

### REGISTRATION

To register for the workshop, please contact:

**Mr. Sathyanarayana R**

Director Sales

Mobile : +91 95001 61111

Email : [sathyanarayana.r@alten-india.com](mailto:sathyanarayana.r@alten-india.com)


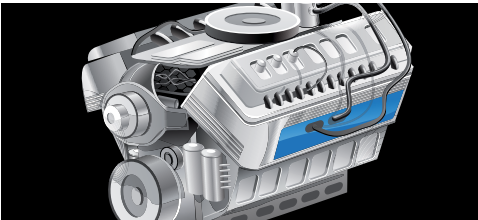

### VENUE

1st Floor, ESPEE IT Park,  
Plot No.5, Jawaharlal Nehru Road,  
Ekkatuthangal,  
Chennai - 600 032,  
India.



## AUTOMOTIVE ENGINEERING @ ALTEN

Automobile manufacturers spend billions of dollars a year on R&D to cope with rapidly changing demands of the industry. In markets such as India, however, there are very few technology companies that have the expertise to tackle the future needs of OEMs. ALTEN India can leverage its parent company's existing frameworks, tools and experience to provide advanced engineering services to OEMs and Tier-1s in India, in the following areas:

	Mechanical Engineering	System Engineering	Embedded s/w and Electrical Engineering
			
<b>Focus</b>	<ul style="list-style-type: none"> <li>- BIW</li> <li>- Exteriors and Interiors</li> </ul>	<ul style="list-style-type: none"> <li>- Powertrain</li> <li>- HIL Bench</li> <li>- Chassis Systems</li> </ul>	<ul style="list-style-type: none"> <li>- Infotainment</li> <li>- Body Electronics</li> </ul>
<b>Services</b>	<ul style="list-style-type: none"> <li>- Style</li> <li>- Planning</li> <li>- Architecture</li> <li>- Design &amp; CAE</li> <li>- Validation &amp; Prototypes</li> <li>- Industrialization</li> <li>- Life cycle</li> </ul>	<ul style="list-style-type: none"> <li>- Architecture: Control Algorithm</li> <li>- Design &amp; prototype</li> <li>- Safety: Operating, Reliability &amp; Diagnostics</li> <li>- Integration &amp; Tuning</li> <li>- Software</li> <li>- Verification &amp; validation</li> <li>- Modeling</li> <li>- Life cycle</li> </ul>	<ul style="list-style-type: none"> <li>- Architecture</li> <li>- Functions Modeling</li> <li>- Software development</li> <li>- Electronics &amp; power electronics product development</li> <li>- Driver Support</li> <li>- Wire Harness</li> </ul>

### About ALTEN Group

ALTEN is a European leader in technology consulting and engineering with almost 16,000 employees across 16 countries worldwide. With €1.2 billion in revenues, ALTEN helps some of the world's biggest companies with their R&D and information systems projects.

ALTEN's area of focus includes Automotive, Aerospace, Energy, Telecommunication and Financial sectors. The automobile industry is one of the mainstays of ALTEN's business and represents more than 16% of our revenues. A total of 2,000 ALTEN engineers and domain experts are working on projects for vehicle and automotive equipment manufacturers across the globe.

### ALTEN India

ALTEN India provides Mechanical & Systems Engineering, Embedded & Electronics Engineering, Technical Documentation and Information System services to product and technology companies in Automotive, Aerospace, Telecom, Healthcare and Education markets.

With 900 employees across 4 locations that ensure our proximity to customer locations, ALTEN India provides the agility and personalised service of a smaller company but with the ability to draw on the expertise and resources of our parent company.

ALTEN India's commitment to providing reliable, robust services is further reinforced by our accreditation to global quality standards such as CMMi 3 and ISO9001:2008.

