

# 2013

DECEMBER  
EDITION

# DAuto NEWS LETTER

*Design engineers turn designs into reality. Without them, a great idea but nothing more than, .... well, a great idea.*

## LAMBORGHINI REVEALS THE HURACÁN LP 610-4

Lamborghini has revealed the first renderings and details on the new Huracán LP 610-4, the Gallardo successor that will make its debut at the 2014 Geneva Show.



### Story About The name "Huracán"

As in the marque's tradition, the name derives from the world of bullfighting. Huracán was a fighting bull of the Spanish Conte de la Patilla breed, known for his courage and strong sense of attack. He fought in Alicante in August 1879, showing his unrelenting character and remaining defiant and invincible, thus entering into the legend of fighting bulls' history.



## LAMBORGHINI REVEALS THE HURACÁN LP 610-4

### Technical Features

The Huracán's has a new hybrid chassis – an integrated structure of carbon and aluminum elements – which contributes to the overall weight of 1,422 kg



The main performance figures are a top speed is over 325 km/h and an acceleration from 0 to 100 km/h in 3.2 seconds and to 200 km/h in 9.9 seconds.

The new 5.2 liter V10 engine delivers a maximum power of 448 kW / 610 HP at 8,250 rpm and a maximum torque of 560 Nm at 6.500 rpm. In the new "Iniezione Diretta Stratificata" (IDS), direct and indirect gasoline injections are smartly combined.

This results in more power and torque with lower fuel consumption and emissions compared with the Gallardo V10 engine.

The unit is matched to a new 7-speed dual-clutch transmission "Lamborghini Doppia Frizione" (LDF) and fully electronically controlled four-wheel drive system.

## CADILLAC ELMIRAJ CONCEPT: THE USE OF 3D SCANNING TECHNOLOGY

### 3D scanning technology

3-D scanning uses projected light patterns and an advanced camera to capture three-dimensional shapes and translate them into math data that can be manipulated in digital modeling programs. Developers of Elmiraj, a modern update of a classic two-door grand coupe, extensively used the digital mapping technology.



"3-D scanning plays an increasingly important role in car design, which typically starts when a 2-D image is turned into a 3-D mathematical rendering."

"Math models serve as the basis for computer-controlled milling and hand-modeling in clay. 3-D scanners allow designers to quickly reverse engineer and update the master math model. Changes made to the math model are in turn updated in the physical model by milling the clay."



## KAWASAKI J CONCEPT

At Tokyo Motor Show Kawasaki has presented the J Concept, a futuristic three-wheels personal transport concept vehicle based on adaptable platform that offers two riding modes.



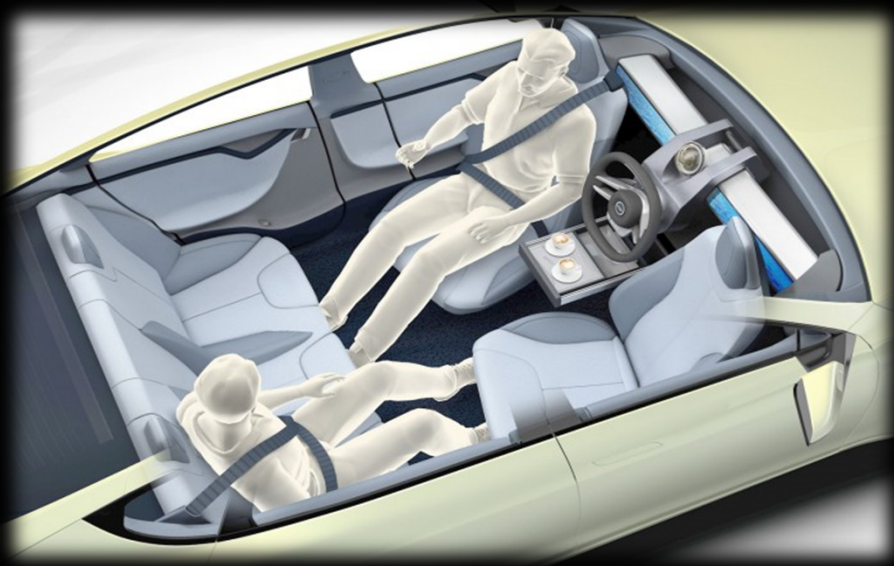
The J Concept explores new possibilities for the future of personal commuters, by proposing a futuristic vehicle that offers two riding modes: a sporty, low riding position for high-speeds and a comfort-oriented upright position. The J Concept features two wheels on the front axle and one large wheel on the rear axle, and is powered by an all-electric drivetrain. The conventional handle bar is replaced by two controllers – each connected to a wheel.

In Sport Mode the track would narrow and the overall riding stance become more sporting and aerodynamic allowing the rider to be “as one” with the vehicle for fun, sport riding. In order to switch from the Sport mode to the comfort mode the wheel base is shortened, the footstep is pushed forward, the seat is heightened and the front track is extended for maximum stability.



## RINSPEED XCHANGE CONCEPT ENVISIONS THE INTERIOR OF FUTURE AUTONOMOUS VEHICLES

At the 2014 Geneva Motor Show Rinspeed will present the xChangE Concept, a fully electric, autonomous touring sedan showcasing an advanced infotainment concept. According to Rinspeed, autonomous driving is destined to become reality in the not-too-distant future. Starting from this assumption, the basic goal of the xChangE Concept was to put the occupants at the center of the driverless car.



Rinspeed designers created a fully electric sedan with a distinctive interior, featuring all-new seats reminiscent of the business-class seats of major airlines and an all-new operating and display concept. Among the revealed highlights is the movable steering wheel, which can slide to the center of the dashboard when the vehicle is in autonomous driving mode. The Rinspeed XchangE will make its official debut at the next Geneva Motor Show (March 6-16, 2014.)



## AUDI TEASES TWO-DOOR CROSSOVER CONCEPT

According to the first information, the new crossover, whose name is yet to be revealed, is conceived for everyday driving and recreational use and adopts some off-road-focused features, including a high ground clearance and the aluminium under body guard.

The road design features reduce the volume and underscore its off-road character. The aluminium under body guard at front and rear emphasizes the width and protects the car off road.

Design elements that are typical of e-tron models, such as the ribs in the Single frame grille and in the side air inlets, fit in harmoniously with the overall design concept. The dual headlights and the honeycomb-structured Single frame grille indicate the further development of the Quattro design language which Audi already presented with its Sport Quattro concept.



It is almost as if the outer skin of the two-door car has been modelled from a solid piece, from the Single frame grille and striking side tornado line to the taut, coupé-like rear. The overhangs are short; the roof line is low and it ends in a strong C pillar. The pronounced horizontal body line and the large 19-inch wheels emphasize the impression of concentrated energy.



## MASERATI ALFIERI CONCEPT

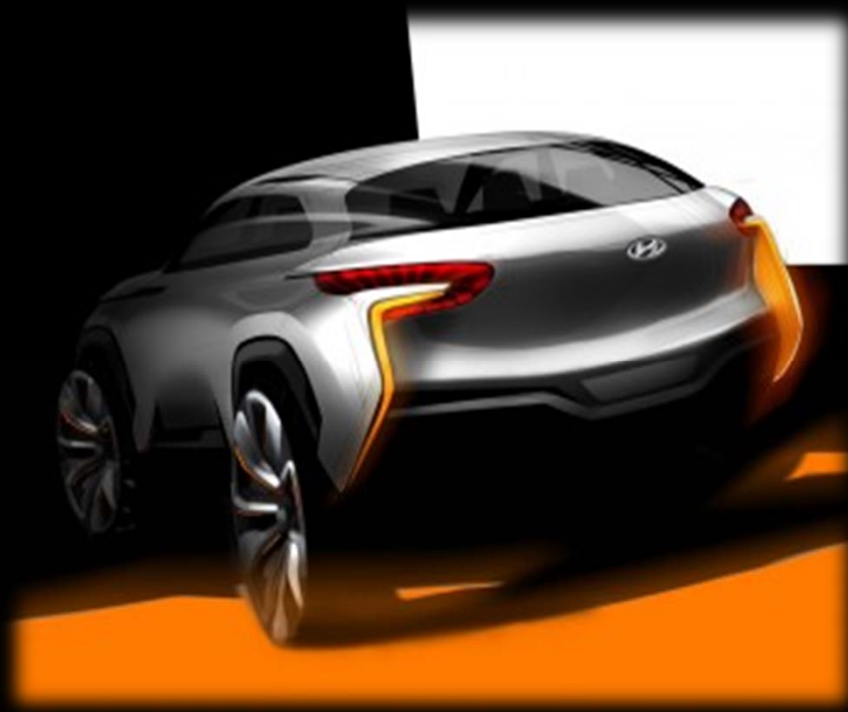
The Maserati Alfieri is a project of an exclusive four-seat one-off based on the Granturismo MC Stradale, created by designer Simone Porta in collaboration with Italian CEMI and inspired by the design and coach building heritage of the Turin area.



The basic idea for the Maserati Alfieri was to challenge the students of the "Technician of industrial modelling" course at the Centro Europeo Modellismo Industriale (CEMI – European Center for Industrial Modeling) school with a complex and at the same time exciting real-life project.

While evoking a classic style, the Alfieri also includes some modern and innovative features and technology: from the extensive use of carbon fiber composites to the distinctive "Thermo leather" treatment and the premium interior materials like Burl Wood and silk.

## HYUNDAI PREVIEWES THE INTRADO CONCEPT



Hyundai has announced that at the 2014 Geneva Motor Show it will present the Intrado Concept, a show car that will showcase the Fluidic Sculpture 2.0 design language and some innovative technologies. The car also features a next-generation hydrogen fuel cell drivetrain that is both smaller and lighter than that powering the assembly-line-produced Hyundai ix35 Fuel Cell. The Hyundai Intrado Concept will be built around a super-lightweight structure made from a mixture of advanced materials and joined using a revolutionary technique that according to the company "has the potential to change the way cars are constructed in the future."

## FORD REVEALS THE NEW MUSTANG



Ford has revealed the all-new 2015 Mustang GT, with a redesigned exterior featuring sportier proportions with a lower, wider stance. The new Mustang will be the first to be sold globally – including in European markets.



## THE LEAST COMMON DENOMINATOR CONCEPT



This project by Oliver Elst from Pforzheim University is a study of sportscar concept that aims at finding the a common denominator out of simplicity and lightness, while exploring a new visual identity.

The goal was to find a combination of simplicity and lightness adopting a creative approach in terms of both visual appearance and innovative technology solutions. To achieve this, he came up with a new sandwich material made of three different layers: the two outer ones give form to the exterior and the interior while the lightweight filling layer is used for cooling or lightning and is formed as an array of small spheres – a geometric shape that minimizes the surface/volume ratio of a body, thus further expressing the idea of “reduction”. The overall goal of this configuration is to visually convey a sense of lightness to the observer, which is not always the case with conventional lightweight materials.

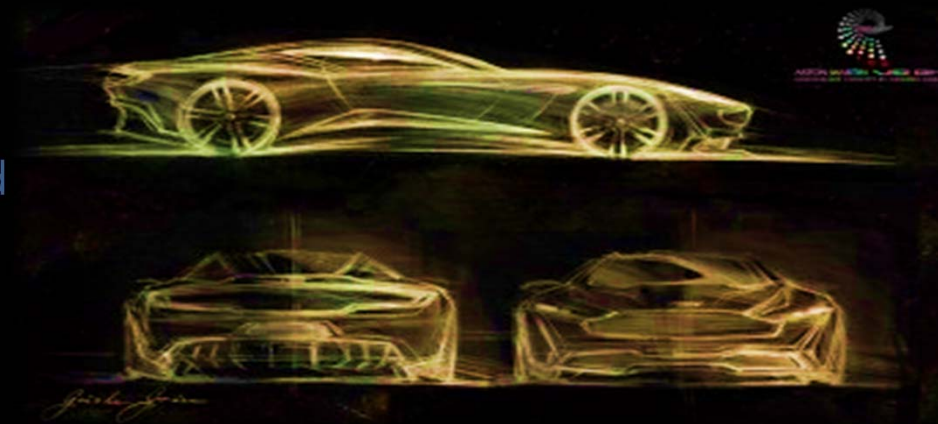
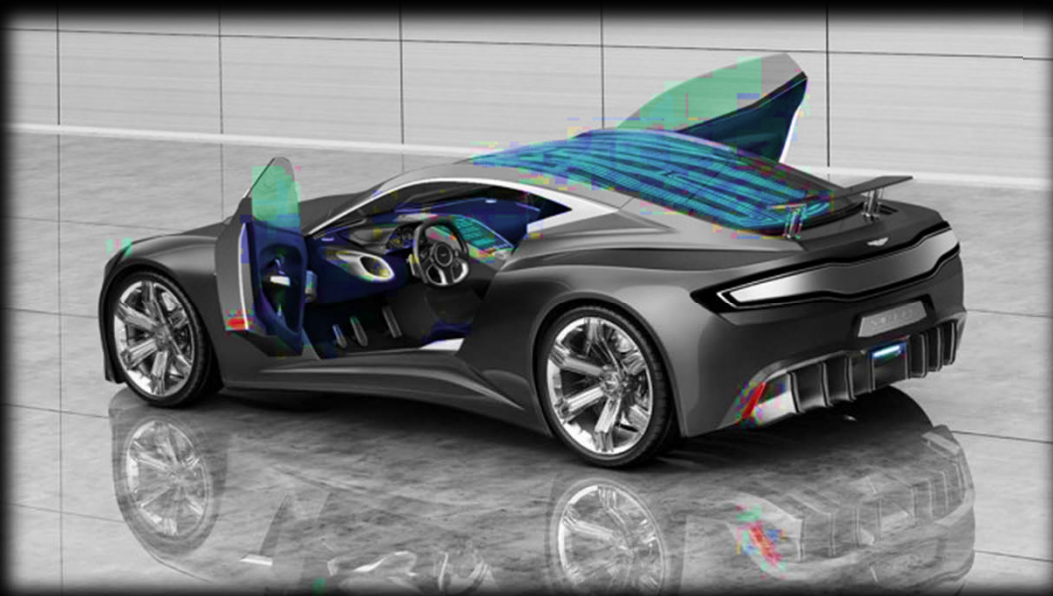


Another goal was to combine several functions within individual components in order “to tidy up” the vehicle.



## ASTON MARTIN VIE GH 100 CONCEPT

The VIE GH 100 Concept combines some of the trademark proportions and design elements of the British brand with an aggressive look defined by sharp edges and a number of feature lines and sculpted elements.



The low, powerful stance is underlined by the muscular shoulders, the side air openings behind the front wheels and the wedge-shaped sill. The overall look and proportions recalls the 2009 One-77. When the car stands still, all the glass-made elements – including the headlights, tail lights and windshield – take the same shape and colour as the body.

The body also features a number of active aerodynamic elements, including the side air outlets, the rear diffuser and spoiler and the front grille. The opening rate is adjusted depending on the speed and aerodynamic conditions.

## EVOLUTION OF RENAULT LOGO

### RENAULT

Renault, now involved in one of the world's biggest alliances with Nissan, changed its logos for over 10 times since it was founded. The French carmaker used an entirely different badge, showing the initials of the three Renault brothers (Louis, Ferdinand and Marceek) drawn on a medallion. The diamond badge was only adopted in 1925, while the 3D perspective was added in 1972 by Victor Vaserely. The last "facelift" of the logo was rolled out in 2007 when the company placed the Renault designation just underneath the diamond, on a yellow background - which is believed to stand for quality.





## CARS THAT COMMUNICATE WITH EACH OTHER AND THE ROAD



These technologies could transform the way we drive and increase automotive safety dramatically. Good thing car companies and the government are already working to try to make this a reality.

Imagine approaching an intersection as another car runs a red light. You don't see them at first, but your car gets a signal from the other car that it's directly in your path and warns you of the potential collision, or even hits the brakes automatically to avoid an accident.

A developing technology called Vehicle-to-Vehicle communication, or V2V, is being tested by automotive manufacturers like Ford as a way to help reduce the amount of accidents on the road.

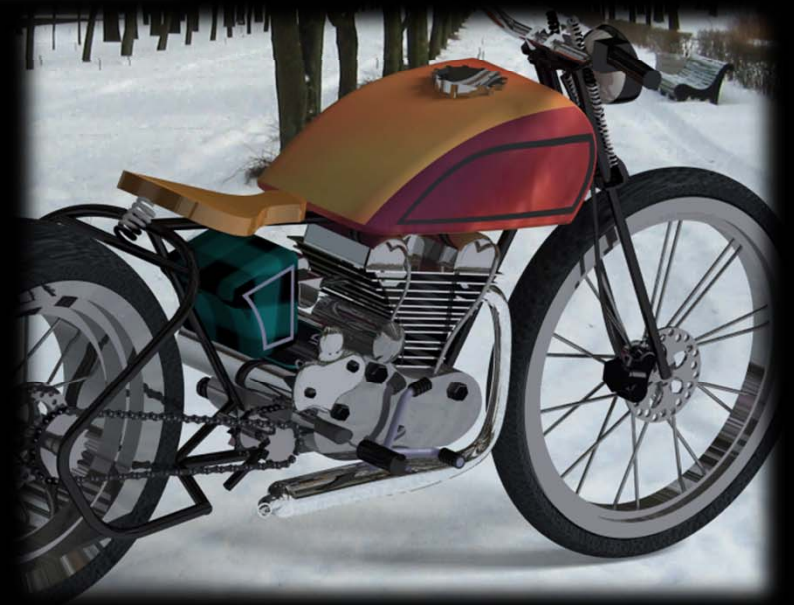


## STUDENT'S CORNER

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## News from DAuto Family

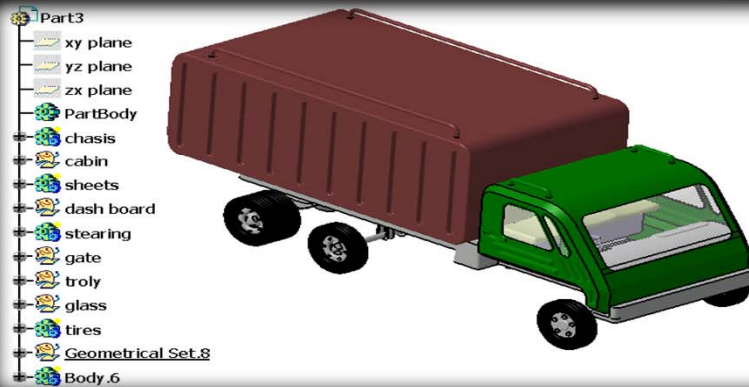


This Chopper Bike has been Created and Presented by Dheeraj Dham (CIST, Bhopal) students of DAuto CAD School during the period of Software Training on CATIA V5.

Students of DAuto CAD School during the period of Software Training on CATIA V5.

## STUDENT'S CORNER

### News from DAuto Family



This Heavy Duty Truck has been prepared and envisioned by Manish Dongardiye (TIT-Excellence, Bhopal) students of DAuto CAD School during the period of Software Training on CATIA V5.

Students of DAuto CAD School during the period of Software Training on CATIA V5.

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