

2015

DAuto Newsletter

AUGUST EDITION



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

FERRARI 488 SPIDER

Ferrari has unveiled the 488 Spider, the most aerodynamically efficient open Ferrari ever built. It features a retractable hard top and will make its debut at the 2015 Frankfurt Motor Show.

The 488 Spider is based on an aluminum space frame chassis and body shell and is equipped with the new turbo-charged V8 that was introduced on the 488 GTB just a few months ago.

This is also the most aerodynamically efficient Ferrari spider ever built, thanks to a series of complex aero solutions designed to guarantee optimal downforce whilst reducing drag, two normally mutually-exclusive objectives.



The unit has a maximum power output of 670 CV combined with maximum torque of 760 Nm at 3000 rpm, enabling the 488 Spider to sprint from 0 to 100 km/h in 3 seconds flat and from 0 to 200 km/h in 8.7 seconds.



FERRARI 488 SPIDER

Ferrari was the first manufacturer to introduce the RHT (Retractable Hard Top) on a car of this particular architecture.



This solution ensures lower weight (-25 kg) and better cockpit comfort compared to the classic fabric soft-top.

This result was possible thanks to several innovative devices, including a blown spoiler and an aerodynamic underbody incorporating vortex generators.

The air flow studies also took into account factors relating to in-car comfort. The electric glass rear wind stop can be adjusted to one of three positions to guarantee maximum comfort when the top is lowered. Fully lowering the wind stop allows the occupants to enjoy the engine soundtrack even with the roof raised regardless of the weather or driving conditions.

HYUNDAI SANTA CRUZ WINS CONCEPT TRUCK OF THE YEAR AWARD

The Hyundai Santa Cruz Concept has earned the prestigious title of Concept Truck of the Year at the 14th North American Concept Vehicle of the Year (NACVOTY) Awards at the Concours d' Elegance of America at St. John's.



Presented at this year's North American International Auto Show in January, the Santa Cruz was recognized as the Concept Truck of the Year for its design, style, materials, technology, market visibility and market responsiveness – besting the Kia Trail'Ster and Mitsubishi GC-PHEV. The award was presented by Mark Phelan, auto critic at the Detroit Free Press and NACVOTY juror.

The Hyundai Santa Cruz crossover truck concept reflects a new interpretation of truck utility for a new generation of buyers, targeting the needs of a growing millennial lifestyle that Hyundai calls "urban adventurers."

HYUNDAI SANTA CRUZ WINS CONCEPT TRUCK OF THE YEAR AWARD

North American Concept Vehicle of the Year

Founded in 2002, the North American Concept Vehicle of the Year Awards recognize those concept vehicles that have made the strongest impact in terms of automotive design, engineering and market responsiveness.

Professional automotive journalists from throughout North America, representing dozens of outlets in virtually every media segment, serve as volunteer jurors to select the award winners.

The awards are given to the best Production Preview Vehicle, Concept Car, Concept Truck and Most Significant Concept Vehicle of each auto show season. To be eligible for the awards, a concept vehicle must make its North American debut during the current model year's auto show season.



This new crossover provides urban adventurers the expandable utility they need throughout their active week – from work-life professionalism to social interests to a variety of outdoor pursuits –without the typical compromises they have come to expect from the industry's current product offerings.

BMW CONCEPT PATH 22

Presented at the Wheels & Waves Festival, the BMW Concept Path 22 is a study of a scrambler inspired by freedom and dedicated to surfers.



The concept bike is the result of a collaboration between BMW and motorcycle club South siders MC, artist Ornamental Conifer and surfboard shaper Mason Dyer of Dyer Brand.



The name "Path 22" refers to one of the insider secrets among Europe's surf spots. This particular stretch of beach is inaccessible to cars, located on the Atlantic coast of southern France, half an hour's walk through one of Europe's biggest pine forests. The path leading to this spot bears the number 22.

The BMW scrambler interpretation is presented to Wheels & Waves Festival visitors in its own distinctive paint finish complete with BMW leather jackets designed especially by Ornamental Conifer and two surf boards created exclusively by Dyer Brand.



BMW CONCEPT PATH 22



"The BMW Concept Path 22 stands for freedom – freedom of thought and its expression. There are no boundaries. Whatever you like is allowed – as at the Wheels & Waves-Festival. The Concept Path 22 is based on the BMW R nineT, which we see as the epitome of a custom bike. It is actually designed to be modified – customized according to individual preferences. The idea of a BMW scrambler is not new to us. Now seemed to be the right time to present our interpretation of this legendary vehicle concept," says **Ola Stenegard**, Head of BMW Motorrad Vehicle Design.

TORINO DESIGN ATS WILDTWELVE

Italian design studio Torino Design is developing a hybrid supercar that is planned to reach limited production in the next years.

The goal of the project is to revive the ATS marque (Automobili Turismo e Sport (ATS) – a company founded in 1962 and closed only three years later, after an unfortunate Formula One experience.



The ATS brand has been re-launched by an Italian company and – more recently – by a Luxembourg-based company.

The first vehicle under development is the Wild Twelve, designed by Torino Design and revealed for the first time in Torino on last June.

TORINO DESIGN ATS WILDTWELVE



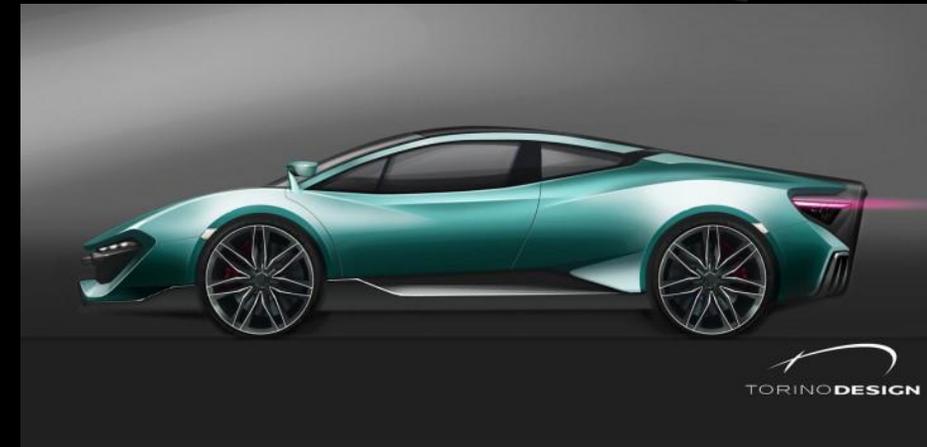
The supercar is powered by a hybrid drivetrain combining a 3.8 liter V12 engine connected to the rear axle via a nine-speed automatic transmission and two electric motors at the front axle.



The total power output is 847 hp and 678 ft lb of torque, that along with a weight of 1.450 kg, allow a 0-100 km/h sprint time of just 2.6 seconds and a top speed of 390 km/h.



According to company owner Piero Jacometti the plan is to build a minimum of 30 units in a former Bugatti factory located in Campogalliano, in northern Italy.





VITESSE AUDESSUS LAUNCHES ONE-PIECE CARBON FIBER WHEEL DESIGN

American bespoke carbon fibre atelier Vitesse AuDessus launches a line of one-piece, full carbon fiber wheels.

For this exclusive line-up of wheels, Vitesse AuDessus uses prepreg carbon fibre fabric that is hand-laid and autoclave-cured in CNC-milled aluminium moulds, a process shared by Formula 1 race teams and Sweden-based supercar manufacturer Koenigsegg. Each handcrafted, hollow wheel tips the scales at just over 13lbs (6kg) on average.

Vitesse AuDessus employs this same process for its range of bespoke carbon fibre exteriors, interiors, components and monocoques.



Retail pricing for OEM wheels starts at \$8,875/wheel, while bespoke pricing begins at \$10,125/wheel. Price factors include design, dimensions and performance requirements. Vitesse AuDessus carbon fibre wheels can be shipped all over the world to both individuals and businesses, with typical lead times of 3-4 weeks.

The improvements in performance and handling dynamics netted by reduced unsprung weight is a function of lowered translational and rotational inertia; this translates into less energy required for acceleration/deceleration and keeping the tyres in contact with the road.

Stiffness and tensile strength can be greatly increased in a pinpointed fashion with only minor weight penalties, a feat that is all-together impossible for isotropic materials such as aluminum or steel.

VISION G COUPE CONCEPT PREVIEW HYUNDAI'S PREMIUM MODELS

The Hyundai Vision G Coupe Concept will serve as an inspiration for the company's family of future premium products.



"Vision G" is purposefully understated, despite its size and dramatic lines. One example of this respectful luxury – and a nod to the self-sufficiency of the driver – is a technology that automatically opens the door as if being opened by a valet.



"The concept was designed with coordinated input from Hyundai design studios around the world, but was led by our team here in the U.S.," said **Peter Schreyer**, Hyundai's president and chief design officer.



During the design process, Hyundai's team of designers centered their work on the **notion of "chivalry"** – a word they felt best defined the idea that one doesn't need to shout to be noticed and respected.

VISION G COUPE CONCEPT PREVIEWS HYUNDAI'S PREMIUM MODELS



The underlying idea of respectful luxury flows into the interior, underscored by its clarity and simplicity. No glaring examples of luxury, but rather elegant lines and finishes.

The unit features high-pressure direct injection and an optimized intake runner length, enhanced timing chain for reduced friction and NVH, low-torque exhaust manifold, increased compression ratio and upgraded multiple-injection mapping.



The exterior styling of the concept is highlighted by a long hood, high-beltline and a cabin that presents a slingshot-like appearance.



The heart of "Vision G" is the award-winning 5.0-liter Tau V8 engine producing 420 horsepower at 6,000 rpm and 383 lb. ft. of torque at 5,000 rpm.

STUDENT'S CORNER



DAuto Training Yield



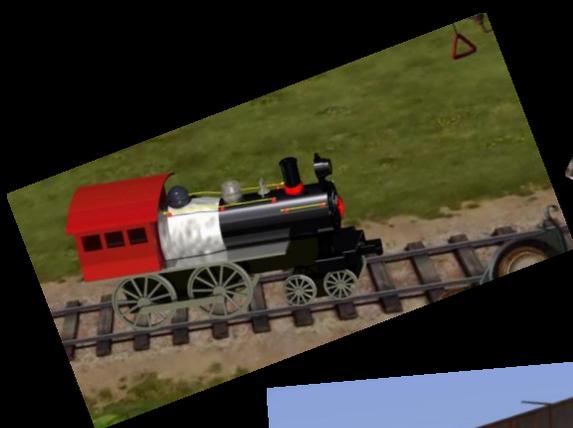
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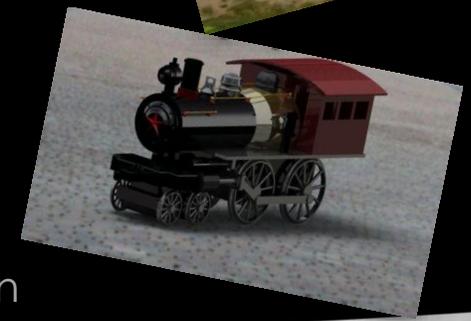
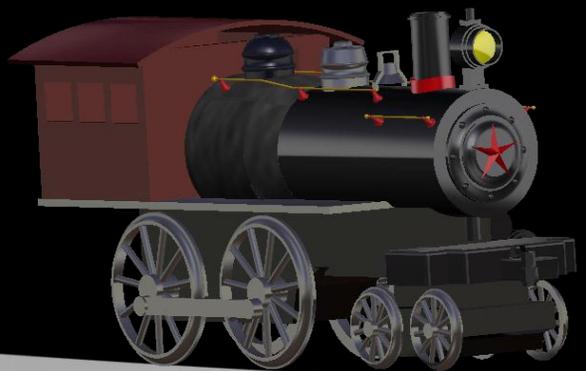
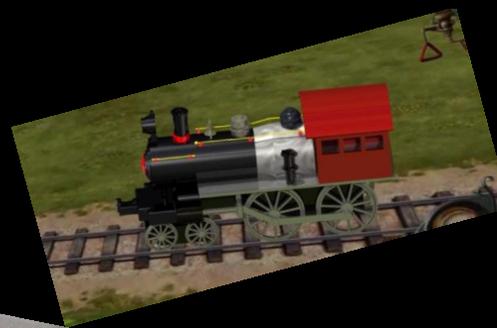
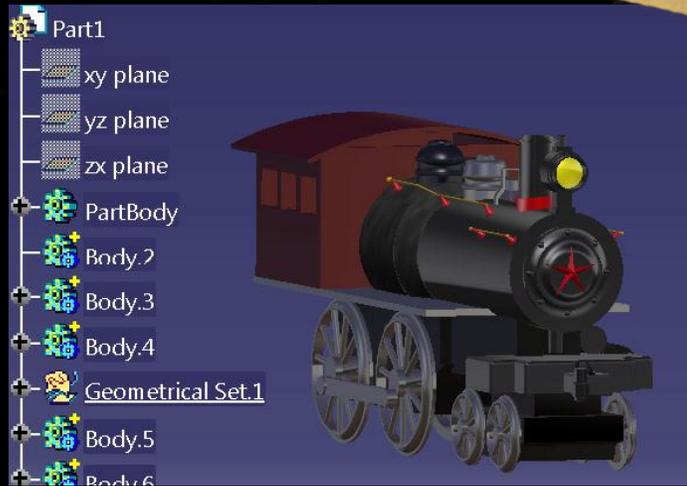
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STUDENT'S CORNER



Designed by
Harshandra Mehta
(OIST, Bhopal)
On CATIA V5

DAuto Training Yield



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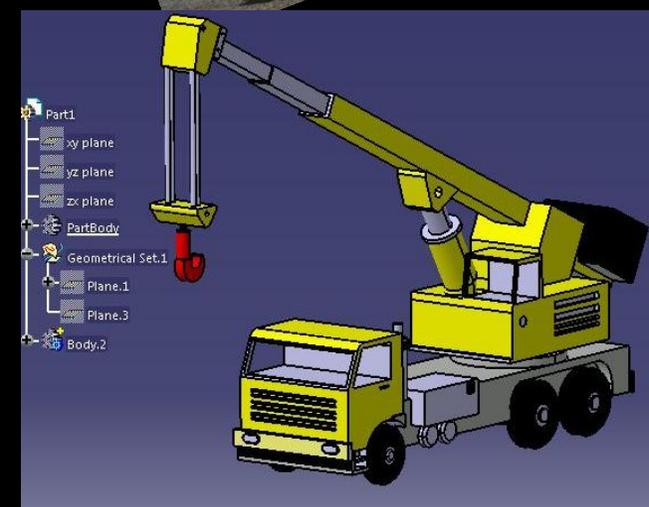
STUDENT'S CORNER



Designed by
Kamlesh Kumbhare
&
Ankit Soni
(SIRT, Bhopal)
On CATIA V5



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