

2017

DAuto Newsletter

JANUARY EDITION

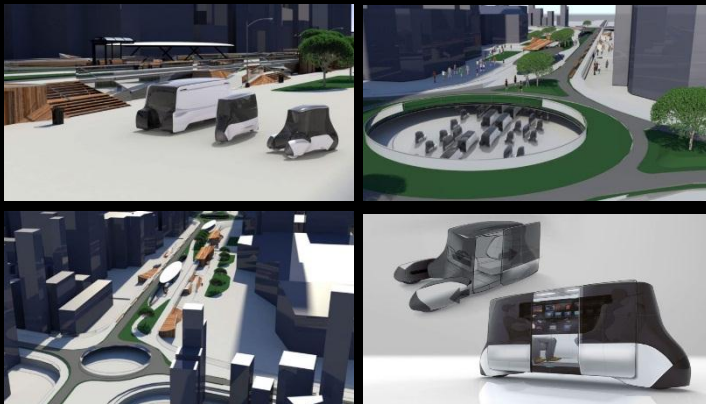


Design engineers turn designs into reality. Without them, a great idea but nothing more than, ... well, a great idea.

“DOUBLE STREET” CONCEPT MOVES SEOUL TOWARD SMARTER MOBILITY

A team of students and faculty from the College for Creative Studies has developed a sustainable mobility solution for the future of Seoul: an efficient surface road system that relieves the overcrowded subway.

Seoul, South Korea, is a densely populated city with typical big-city issues — traffic, overcrowded public transportation and high levels of pollution. The city also is a world leader in public transportation. As urban areas move toward a “smarter” paradigm, it makes sense that the next iteration of the city’s transport system also be developed in concert with smart technology.



The problem: develop a **sustainable mobility solution** for the future of **Seoul** that incorporates state-of-the-art technology and efficient service and that addresses the diverse needs of commuters, children, people with disabilities and the elderly.

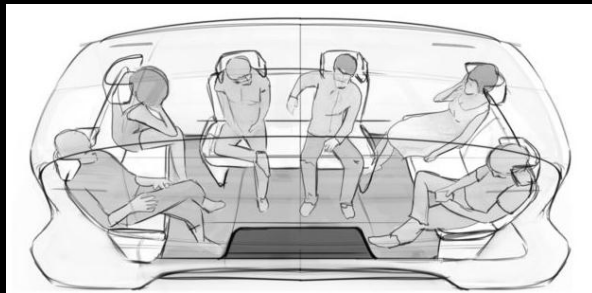
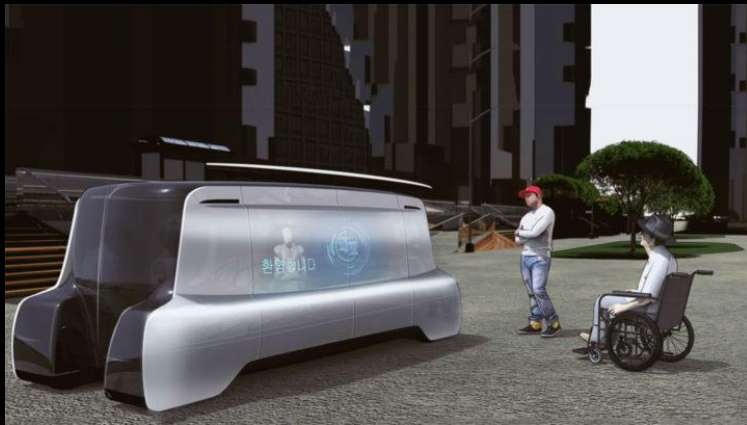
The answer: the “**Double Street**” **concept**, developed at the invitation of the Seoul Design Foundation by an interdisciplinary team of students and faculty from the College for Creative Studies led by Associate Professor and Chair of Transportation Design (BFA/MFA) **Paul Snyder**. The concept addresses Seoul’s greatest mobility issues by relieving the overcrowded subway with an efficient surface road system. The goal was to gradually transform the city’s existing streets into dedicated smart road automated networks — with minimal construction and service disruptions.

“DOUBLE STREET” CONCEPT MOVES SEOUL TOWARD SMARTER MOBILITY

“Double Street” is a sustainable, dual-layer infrastructure combined with a fully automated vehicle system, including all-electric vehicles that operate within a connected network system. This system enables universal access and rapid shared or personal transit for all.

The most important aspects of CCS’s Mobility Lab “Double Street” concept and smart mobility design are more productive workers who spend less time commuting,

healthier citizens who have more communal and green space, and more affordable living space available for growing and aging populations.



GM MOVING FORWARD ON SALE OF INDIAN CAR PLANT TO CHINA'S SAIC



A subsidiary of China's top carmaker SAIC Motor Corp. plans to acquire certain General Motors manufacturing assets in India, a filing with the country's competition watchdog showed on Friday 2017.

As part of a side deal, GM also plans to buy out SAIC's 9.2 percent stake in SAIC General Motors Investment -- a joint venture it formed with the Chinese automaker in 2009 to expand its presence in emerging markets like India, a separate filing showed.

The assets, which could give the Chinese automaker a toehold in the Indian car market, will be acquired via an Indian subsidiary of SAIC that is yet to be incorporated, according to the filing with the Competition Commission of India.

GM, in an emailed response to a leading media partner's query following the filing, said discussions with SAIC on the sale of Halol -- its plant in the Western state of Gujarat -- were progressing well and that the two parties were working to secure necessary approvals.

"We'll share any progress at the appropriate time," GM said.

It was not immediately clear whether the two deals are being structured as some sort of asset swap, or whether there would be payments made by both parties for the assets. A spokeswoman for SAIC declined to comment.

GM MOVING FORWARD ON SALE OF INDIAN CAR PLANT TO CHINA'S SAIC

Sources familiar with the matter had told to the media last April 2016 that the Chinese carmaker was in discussions to buy GM's Gujarat plant and had been evaluating car models to launch in India.

GM said in 2015 that it planned to stop production at one of its two plants in India by mid-2016 and consolidate operations at one location. GM's Halol plant can manufacture up to 110,000 vehicles a year. GM also runs a plant in Talegaon in the western state of Maharashtra that has a capacity of about 170,000 vehicles a year.

Sagging sales and a regulatory crackdown on diesel-powered vehicles had forced GM to redraw its plans in India.

Several foreign carmakers such as GM, Volkswagen AG and Ford Motor have struggled to ramp up sales in India, expected to be the world's third-largest car market by 2020, and are now pushing exports from the country to utilize idle manufacturing capacity.

In July, GM said it was re-evaluating a planned \$1 billion investment in India and had put on hold moves to bring a new car platform to the country that would have helped it better compete against market leader Maruti Suzuki.

Between April and November, GM's India sales fell 19 percent to 17,868 vehicles, while total passenger vehicle sales in India rose 10 percent over the same period, industry data showed.

TANVAS: USERS CAN FEEL THE TEXTURE VIA ELECTROSTATICS

Tanvas has finally revealed its first Haptic feedback system where the user can actually feel the texture they touch on the tablet. The device was launched in Vegas, at the world's biggest tech event, CES 2017.

The company was founded in 2011 by Haptics Pioneers Ed Colgate and Michael Peshkin. The company headquarter is in Chicago. Last 2015, the company received a Chicago Innovation Award. The team revealed that the technology emerged from ten years of research at the Neuroscience and Robotic Lab at Northwestern University, and they finally launched the Haptic Feedback System which uses electrostatics to modulate friction.



Tanvas is the company known for redefining touch by enabling users to feel what could be seen on any the touchscreen. It is adaptable to any virtually touchscreen Smartphone or tablet. From retail, consumer electronics and gaming to advertising, automotive, visual impairment and the arts, the potential application for Tanvas Touch are limitless. The Tanvas Touch technology would require their screen to send more precise responses when someone touches the screen using electromagnetic pulses.



Furthermore, TanvasTouch carries a new branch of surface Haptics that brings real-time control of the forces acting between a fingertip and the touch surfaces. This combination of sensing and Haptics on the same level, TanvasTouch is unlike anything in the world.

The company has designed a touch screen device which would allow the users to feel the texture of the fabric by touching the screen. The digits would bump along a series of horizontal lines making the user feel a tinge of the roughness of sandpaper.

In partnership with Bonobos, an apparel company, the company is showcasing another interesting application. The app showed two pairs of pants, a cotton fabric, and a corduroy, and they let users feel the fabric.

Despite the advances in graphics, vibration, and sound, today's touchscreen is still just a motionless window to the digital world. TanvasTouch unlocks a new level of creative freedom and interactivity without any need for a hand trackers or headset.

THE NEW 2017 KIA NIRO: A HYBRID CROSSOVER UTILITY VEHICLE

Kia stopped by Motor Trend Headquarters just this week to reveal its new baby, the 2017 Niro, a hybrid crossover that will compete against the Toyota Prius. The car is Kia's first dedicated hybrid and is said to be a sister car to the Hyundai Ioniq. The car will go on sale early next year just right after the Optima hybrid and plug-in hybrid comes to market.

The majority of the hybrids today comes with a CVT, however, Kia, like its sister brand Hyundai, is against the idea of belt-type transmissions. Instead of using a torque converter automatic for the car, Kia equipped the 2017 Niro with a six-speed dual clutch unit to help assure that it doesn't drive like the typical hybrid. The car also rides on the similar platform that Hyundai Elantra and Kia Forte are using. But because the car is a dedicated hybrid, the platform itself only shares 10 percent of its parts with the chassis sitting under the two compacts.

The car will be powered by a new hybrid powertrain that combines a 1.6 liter I-4 coupled to an electric motor for an output of 146 horsepower and 195 lb-ft of torque. In addition, designers at Kia designed the car with a more utilitarian approach and developed what the automakers call a hybrid utility vehicle, a family-friendly hybrid with outstanding levels of practicality.



THE NEW 2017 KIA NIRO: A HYBRID CROSSOVER UTILITY VEHICLE

Meanwhile, a few months after the standard the car will go on sale early next year, the plug-in hybrid version will soon be revealed to the public. Expect it to have an EV mode range of 25 miles or more, which should make it easier to the wallet of the customers.

The 2017 Kia Niro crossover hybrid will start at a selling price of \$23,785, including destination, when it goes on sale early next year. It will be offered in 5 different trims: FE, LX, EX, Launch Edition and Touring. The most expensive model will be starting at \$30,545. The limited run edition is only available in snow white pearl or aurora black pearl paint with gray 18-inch alloy wheels, touchscreen navigation, 10-way power driver's seat, and premium audio.



2017 FORD GT: THE FASTEST CAR SO FAR

The two-seater mid-engine sports car underwent a series of observation and planning as it will be redesigned to be Ford's 2017 GT. After a long time of waiting, the multinational automaker conglomerate has recently released the full specs of their latest model.



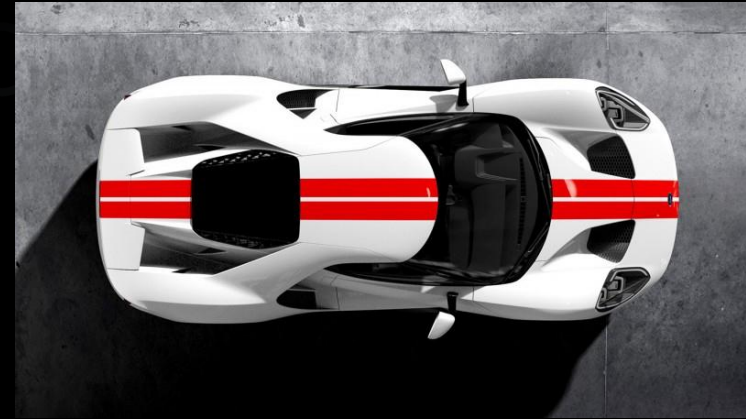
As for its spec sheet, the Ford supercar has a high speed of 216 mph from its 647 hp at an rpm of 6,250 and a 550 lb-ft torque at a 5,900 rpm. This is obviously like a wind blowing fast. It is also noted that the model has laid down a 2 minutes and 9.8 seconds time while its rivalry McLaren 675LT did 2 minutes and 10.8 seconds and Ferrari's 458 Speciale is 12 seconds away from the GT with a duration of 2 minutes and 21.9 seconds when it was at the Calabogie Motorsports Park that is located in Canada.

The American sports car is weighing 3,045 pounds alone excluding the fluid's weight that would add up another hundred or more. Its power to weight comes in 4.72 pounds per horsepower. This makes the GT as the closest competitors of the Ferrari 488 and McLaren's 675LT.

2017 FORD GT: THE FASTEST CAR SO FAR

According to the global director of the company's performance, Dave Perick, "Our expectation has always been that the EcoBoost V6 would perform exceptionally well in the Ford GT -- both in terms of power as well as aerodynamic efficiency," he also added, "We tested and developed this powertrain through the Daytona Prototype race car that ran in IMSA for two seasons, last season racing with Ford GT. We are extremely pleased with how it performs, both on the track and on the road."

The 2017 GT is the fastest car to have a Ford badge that will have a price starting around \$400,000. There are only 500 fortunate consumers who can get the GT while the rest will be left dreaming of having one.



MERCEDES-BENZ LAUNCHES A-CLASS AND B-CLASS 'NIGHT EDITION' VARIANTS



Leading luxury car maker Mercedes-Benz kicked off the New Year by further strengthening its new generation cars portfolio by rolling out the Night Editions of its popular A-Class and B-Class compacts.

Both the models come with a 7-speed dual clutch automatic transmission. The company said the Night Editions will have only 100 exclusive units each for the domestic market.

While the petrol variants of both the cars are mounted on a 1.6-litre engine, the diesel variants come with a 2-litre engine. The A 180 petrol is priced at Rs 27.31 lakh, while its diesel model A 200 d comes at Rs 28.32 lakh. Besides, B 180 petrol comes at Rs 29.34 lakh and its diesel variant B 200 d has a price tag of Rs 30.35 lakh. All prices are ex-showroom Pune, the company said in a statement.

Last year, Merc, which retained its market leadership for the second year in a row in spite of a marginal dip in sales due to the 8-month long diesel ban in its largest market Delhi and then the two-month noteban, had launched 13 models which was more than its original plan.



MERCEDES-BENZ LAUNCHES A-CLASS AND B-CLASS 'NIGHT EDITION' VARIANTS

The German luxe car maker sold 13,231 units in 2016, as against 13,503 units in the previous year due to these external headwinds. The company has not said so far how many models it will roll out this year.

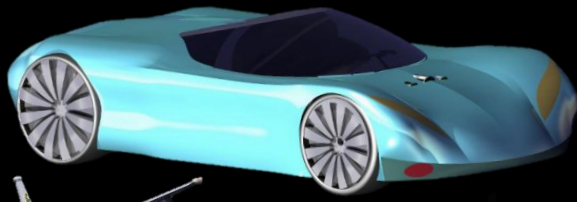
Launching the A-Class and B-Class Night Editions, Mercedes-Benz India Managing Director and Chief Executive Roland Folger said these are designed for the 'go-getters' who believe in arriving in style wherever they go. "As the most progressive models in the compact luxury segment, the A-Class and B-Class have been instrumental in making brand Mercedes-Benz more youthful. Both the cars embody the changing preference of the youth in today's social milieu, which increasingly prefer compact luxury," Folger said.

While Merc assembles nine of its top-end models at its Pune plant, all the variants of the A & B Class as well as those launched are all imports.

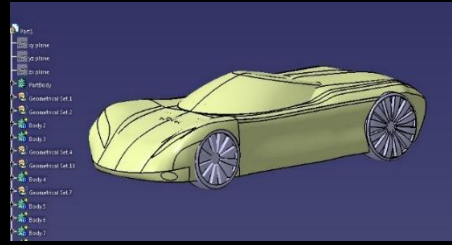


STUDENT'S CORNER

By :
MD.Firoz Alam
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Design Tool :
CATIA V5



DAuto Training Yield

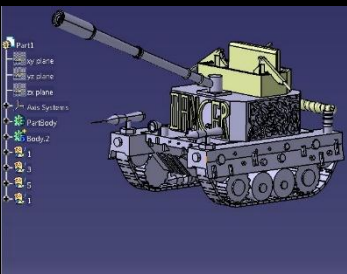


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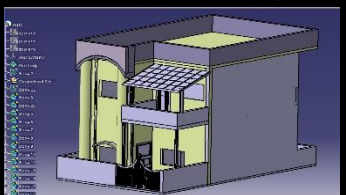
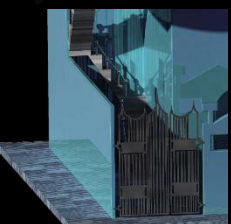
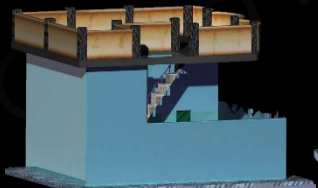
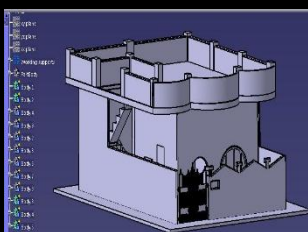


STUDENT'S CORNER

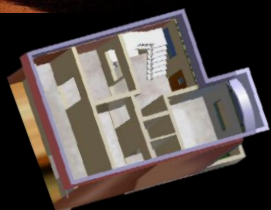
DAuto Training Yield



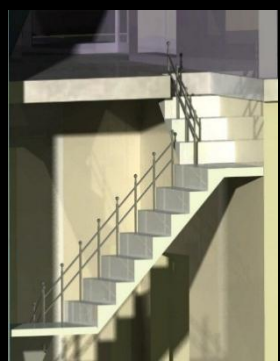
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