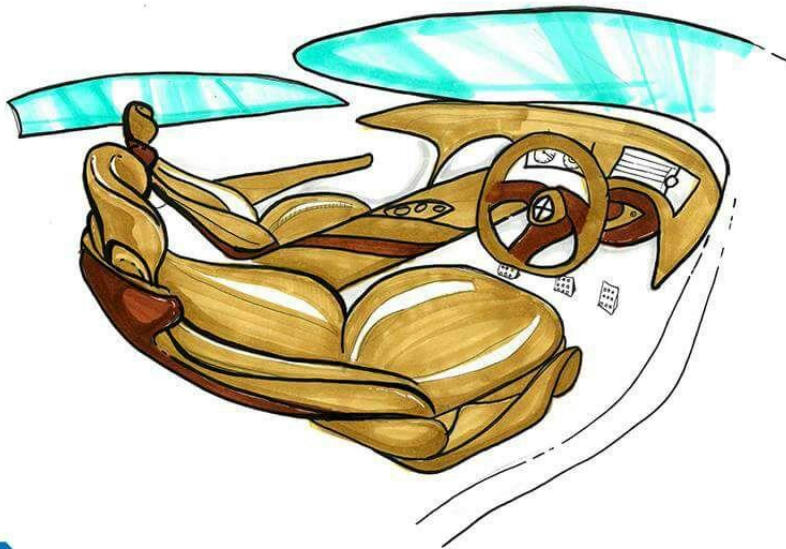
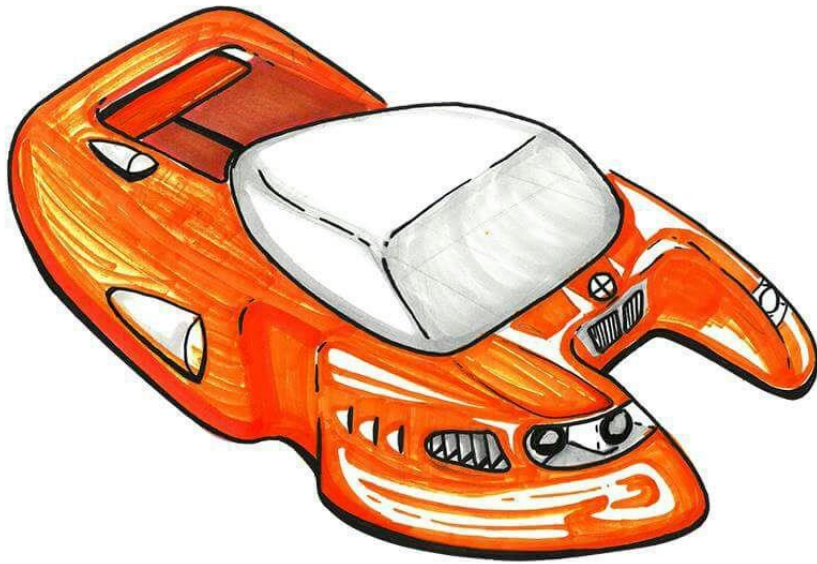


The Next BMW designer 2016

Our student S.3C Lau Pak Hei was awarded (Age group 13-15) Champion in 'The next BMW designer 2016' held by the prestigious German car brand BMW. The competition aimed to explore the potential and showcase the creativity of youngsters by letting the participants design their own signature car of Hong Kong. Lau Pak Hei's design was inspired by a type of shark called mako sharks. Mako sharks are the fastest among all types of sharks, reaching a top speed of 60/mph. He also chose the catchy color orange for the body of the car as it provides comfort to people in nature. With the use of ergonomic designs, the car seats could provide support to the backbone and also protect the passengers from any collision. With the use of Aerogel and Aluminum alloy, the car could be more resistant to extreme temperatures and traffic conditions. Entries will be featured in the BMW calendar 2017. Champions from each category will be rewarded a trip to Munich and will be invited to visit the BMW plant.





GROUP AGE
13-15

LAU PAK HEI

THE NEXT BMW DESIGNER 2016

靈活移動的球型車輪、外觀矚目的閃爍型車頭、讓輪椅直入車廂的時尚汽車，這些獨特創意設計出自3個本地學生之手，並在德國著名汽車品牌BMW舉辦的「The Next BMW Designer 2016」汽車設計比賽中脫穎而出。他們設計的汽車不單外觀吸引，更迎合社會環境，照顧大眾生活所需。他們還將遠赴德國寶馬車廠及博物館交流，開展汽車設計之旅程。

「The Next BMW Designer 2016」汽車設計比賽

探索生活需要 創造夢想中的汽車



▲(左起)10至12歲組別冠軍蔡皓然、最佳參與學校員道書院周爾怡老師、13至15歲組別冠軍劉柏希、寶馬集團進出口商務(香港、澳門及台灣)副總裁孔楷文、16至18歲組別冠軍蔡嘉銘、寶馬汽車(香港)有限公司董事總經理劉家輝進行揭幕儀式，設計作品已於BMW寶馬展列室(土瓜灣)展出。

BMW為慶祝成立100周年，特別舉辦「The Next BMW Designer 2016」，給本地青少年成就汽車設計的梦想。寶馬汽車(香港)有限公司董事總經理劉家輝表示，比賽收到很多創新的作品，他們的創作概念很有趣，就連大人都意想不到，而最令他印象深刻的是他們的創作多從家庭及愛出發。

為繼續鼓勵年輕人投入汽車設計之旅，劉家輝指出，除在網上、學校和畫室進行宣傳和招募，會再發掘更多途徑，如在不同的青年中心或各大書店宣傳，讓更多人認識這比賽，從而激發學生的汽車設計潛能。「我們相信現在我們收集的2D畫作並不能完全表達出學生的創作意念，所以來年我們會研究提供不同的平台，讓學生能更全面地表達創新想法。」

10至12歲組別冠軍 蔡皓然
靈活球型車輪 解決交通問題

今年11歲的蔡皓然，自小鍾情交通工具，尤其喜歡跑車的外觀、性能及引擎聲音，經常製作模型及研究，並留意汽車改裝和比賽。他以《星球大戰》的BB-8為創作靈感，特別採用球型車輪設計汽車。他表示：「球型車輪可靈活橫向移動及原地轉動，有助解決城市泊車及轉急彎的問題。期望設計能解決交通問題，給駕駛者安全舒適的旅程。」

由於球型車輪的轉動模式有別於一般汽車的直線傳動軸，蔡皓然為力求完美，花了兩個月去想解決方法。他表示：「在翻查資料及詢問老師意見後，想到以磁浮方式將車輪及車軸連繫。」蔡皓然將設計融合不同交通工具的創意與性能，例如參考可以調節光線的飛機窗，又對Tesla及BMW車展了解電動車的車輪設計。他指出：「一般汽車前座的伸張空間小，但採用球型車輪後可以有一個角度作為伸張空間，座位則可調校成平坦的床，也可以轉動，方便與後座乘客面對面交流。」

他亦考慮以流行的自動駕駛作為操作。他解釋：「車上將設有多個鏡頭和感應器，沒有盲點位，令行車更安全。而自動駕駛亦令汽車不會過度佔據道路造成阻塞，車與車之間還可以分享資訊，了解附近道路工程、車況及人流，分析最合適行車路線。此外，車身裝上OLED燈，能夠如紅綠燈般提醒附近行人及踏車人士注意安全，亦可顯示Hello等字句，歡迎朋友乘車。」每項設計以生活出發，照顧各種需要。

為創作理想汽車，蔡皓然繪畫了多款設計，詢問家人及繪畫老師的意見，了解同學對未來汽車的需求，以琢磨汽車外觀。他表示：「由於網上資訊豐富，因此汲取與概念相近的內容，將不同概念融入自己的設計之中。另外，比賽除了創意，還需要掌握繪畫、製作簡報、英語表達等不同技巧。很高興比賽不單重視創意，參賽者還要對汽車有所認識，須具備實力才能取勝。在過程中還學到很多新知識，例如OLED屏幕應用，在觀摩其他參賽

作品時也發現自己不足之處，對汽車設計及發展也有更深入認識。」他期望在德國之行中能親身認識工廠的生產線，以及寶馬的歷史，並學習德國人精益求精的態度。

13至15歲組別冠軍 劉柏希
獨特設計與外觀 照顧駕駛者身心需要

劉柏希對汽車的熱愛，源於小時候與爸爸遊車河，聽爸爸細說個人經歷，並講解各種物料的特質，使他喜愛設計及繪圖，更開始研究物料特性。

汽車面對不同交通情況，例如極端氣溫和交通意外，所以需要選用良好的物料，為乘客提供保障。」

劉柏希的汽車外觀獨特，車頭空間寬敞。他表示：「外觀有別於一般傳統汽車時的撞擊設計，希望以新角度為汽車，帶來耳目一新的感覺。這部車設有撞擊排指系統，在即將撞擊前會發出提示聲音，甚至可取代駕駛者操控汽車，避免意外發生；又會採用後置式引擎設計來確保安全。另外，汽車座椅會以人體工學設計，給乘客帶來舒適和保護。車身則選用橙色色調，能夠安撫情緒，帶來溫暖感。」

現今居住空間狹小，劉柏希不想汽車空間也變得狹小，因此採用兩座位設計，令車廂空間更加寬敞，亦突顯BMW強調的舒適感。他指出：「這部車的設計，由座位、顏色、撞擊預防系統等，都反映出個人的獨特性，幫助港人面對交通和生活需要。」

劉柏希認為比賽加深他對物料及設計的認識，了解更多成為汽車設計師的要求，並體會到爭取機會的重要性。他很高興透過比賽認識許多對設計充滿熱誠的人士。他表示：「很榮幸認識華人汽車設計師 Calvin (陸嘉銘)，期待到訪德國的寶馬汽車設計部門，跟 Calvin 等設計師交流，了解他們如何尋找靈感，學習他們的思考模式，並觀察各類汽車設計工具，例如曾在網上短片看到他們以麻繩製作汽車外觀。又希望參觀博物館一覽BMW首款R32型摩托車、有泡泡車之稱的Isotta等。」劉柏希期望日後有機會投身汽車設計行業，他表示：「雖然小時候喜歡跑車，但現在希望能設計大眾化的汽車，滿足感會更大。」

16至18歲組別冠軍 蔡嘉銘
時尚與實用兼備 關顧輪椅使用者需要

熱愛設計的蔡嘉銘，喜歡透過比賽累積經驗。由於要準備DSE考試，蔡嘉銘起初也猶豫應否參賽，但一次學校講座觸發他的設計靈感，於是決定參賽。

蔡嘉銘表示：「環境人士在講座上分享生活活動，有些內容與汽車有關，回

家搜尋更多資料，發現他們外出時非常不便，因此希望設計適合殘疾人士需要的汽車。」

有見輪椅使用者在乘坐汽車時，要將身體移入車廂，再將輪椅推合收起，相當不便，蔡嘉銘決定設計可讓輪椅直接進入車廂的汽車。他表示：「一般汽車的車廂較狹窄，車廂地板凹下，加上車門及道路狹窄，對輪椅使用者不便。因此新設計的汽車車廂會較為寬敞，車廂較高，增加空間感。新設計又會將四門改為三門，並改用趟門及設有踏板，方便上落之餘，又可節省空間。」

除了功能實用，蔡嘉銘也着重顏色及線條，期望以獨特的汽車外觀引起注意。他表示：「我選用了寶馬常用的灰色，以及自己喜歡的藍色。車型設計較圓，突顯「高科技」的感覺。汽車還加入自動偵測系統，可感應附近行人及移動的物件，即使駕駛者來不及反應，也能自動減速、停車及提醒司機，確保安全。」

蔡嘉銘喜歡設計和建築，以往沒想過當汽車設計師，但在比賽後對汽車設計有更濃厚的興趣。他表示：「除了注意材料及科技限制，原來還要注意未來汽車發展及不同人的需要。在過程中學到更多設計知識，了解設計並非只為銷售市場或讓人留下深刻印象，也要留意使用者的需要。」

對於獲勝，蔡嘉銘坦言感到不知所措，他表示：「既有機會參加頒獎禮介紹作品，也會到德國交流。除可參觀車廠，還可在寶馬的總部博物館了解不同汽車設計和演變，並欣賞德國的哥德式建築。」他認為香港缺乏發揮所長的機會，希望學習建築及汽車設計的相關知識，以作日後發展。

小學生踴躍參與 營造校園汽車設計氛圍

汽車設計充滿趣味，香港華人基督教聯合書院小學部學生紛紛報名參賽，更贏得最佳參與獎。負責責優教育的周爾怡老師表示：「質優教育旨在發掘和培育有潛質的學生，透過校內和校外活動讓學生發揮潛能。比賽是一個很好的機會，讓學生發揮多元才能，有助面對未來難以預料的挑戰。」

在得知BMW舉辦汽車設計比賽後，周爾怡老師即向全級B3(小學五年級)學生介紹比賽規則，教他們搜尋資料。她表示：「學生反應非常踴躍，在網上尋找相關影片和同學分享，氣氛很好。有學生還拿設計圖給我看，很高興看到他們自發參與。」

比賽既要繪畫汽車外觀及內觀，並要撰寫百多字解釋設計意念，要求嚴謹。周老師除鼓勵及幫助學生寄出作品，也引導學生思考設計內容。她笑言：「主要是透過問問題，例如未來的汽車是否需要加入環保設計等，讓學生思考。」

學生投入汽車設計，最終有20名學生遞交作品參賽，當中小五女生王思雅(Sarah)更在比賽中獲得第三名。周老師表示：「Sarah對獲獎感到高興，認為是一個肯定。她用心預備簡報圖、演說稿及問題卡，初稿也修改了數次。由於入圍後要向寶馬工程師、設計學院教授等詳列介紹作品，因此Sarah非常緊張，更主動找我協助。期間與她在校內練習了很多次，很高興最終Sarah在演說中對流程暢，將整個設計意念完全表達出來，回答評判提問時也大方向體。」

▲得獎者將可帶同兩名親友，同赴德國慕尼黑BMW Welt、博物館及汽車製造廠。

▲專業評審團包括(左起)香港老普普會副會長張瑞、香港汽車會行政總裁盧卓奇、寶馬汽車(香港)有限公司董事總經理劉家輝、寶馬集團(香港、澳門及台灣)進口業務部市場推廣經理Florens Kalusu、德國寶馬汽車設計師陸嘉偉及香港理工大學設計學院副教授韓智賢。

▲「The Next BMW Designer 2016」的參加者反應踴躍，並獲近5,000名公眾以「讚好」支持。



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THE FUTURE CAR

BMW invited local youths to design their dream car as the prestigious carmaker celebrates its centenary.

Automotive design must be quite a romantic vocation in the minds of youngsters, as it fulfils their penchant for all things tech and gadgetry, while allowing them to pursue their dream lifestyle. BMW, in celebration of its 100th anniversary, has recently held "The Next BMW Designer 2016" motor vehicle design competition in Hong Kong, asking students to imagine their own signature car that incorporates BMW's core values and Hong Kong's unique characteristics.

It was not an easy task but the response was overwhelmingly positive with many entrants expressing unique ideas on aesthetics, functions, ergonomics and what constitutes their own signature BMW.

A champion was selected in each of the three age groups by a panel of professional judges comprising Mr. Calvin Luk, Exterior Designer of BMW Group, Professor Fred Han, car designer and Associate Professor at the School of Design, Hong Kong Polytechnic University, Mr. Carl Yuen, Vice Chairman of The Classic Car Club of Hong Kong, Mr. Chacky Ip, Chief Executive Officer of Hong Kong Automobile Association, Mr. Joseph Lau, Managing Director, BMW Concessionaires (Hong Kong) Limited and Mr. Roman Kalusa, Marketing Manager of BMW Group Import Office Hong Kong, Macau and Taiwan.

Lau said: "The competition was inspired by the story of Calvin [Luk], who is now a designer with BMW in Munich and whose parents were from Hong Kong. It made me realise that while Hong Kong may be too small a market to have our own car brand, we can still develop talents to serve the global automobile industry. Therefore we organised this competition so our youngsters can make good use of their creativity, and some of them can have the chance to visit our factory in Germany and be inspired."

The champions will be rewarded with some truly precious experiences. They will travel to Munich next Easter with their families to visit the BMW Welt, Museum and Plant, and their winning entries will be featured in the BMW Calendar 2017, along with nine other finalists.

Luk is of Chinese heritage from Hong Kong and studied the US. He joined BMW at the age of 22 and became one of their youngest car designers in history, with BMW X1 being one of his masterpieces. During the finalists' presentations, he explained that while BMW celebrates its 100th birthday, it also thinks about the future.

"Design helps to carry BMW's core values: innovation, precision engineering, great design and social responsibility. All these things combine to influence what design is. I was happy to see all these things addressed in today's presentations so that they are aligned with BMW's commitments to the future."

He felt inspired by all the different ideas, including those that did not make the final cut. "I want to let people know that even if the design does not continue in the studio, it always inspires many people and leads to many ideas. So if you have great ideas, it's important to continue to speak out, study, and talk to people like Prof. Han or me. You can't give up after the first setback. Eventually something will come along."

HKCCCU Logos Academy won the award for the highest number of participants, including one of the finalists. "As an IB school, we try to develop students in every way we can and this is one of those opportunities. We guided them through the process and offered them advice. They're all self-starters and I was very touched by the presentation of our finalist," said Ms. Winnie Chau, the school's Gifted Education Teacher-in-Charge.



From left: Tsoi Ho-yin (10-12 age group winner), Ms. Winnie Chau of HKCCCU Logos Academy, Lau Pak-hei (13-15 age group winner), Mr. Kevin Coon, Vice President, BMW Group Importer Centre, Hong Kong, Macau and Taiwan, Tsoi Ka-ming (16-18 age group winner) and Mr. Joseph Lau, Managing Director, BMW Concessionaires (Hong Kong) Limited.

but also performance. I really look forward to visiting the BMW production line and see how cars are manufactured," said Tsoi.

Fluid like a shark

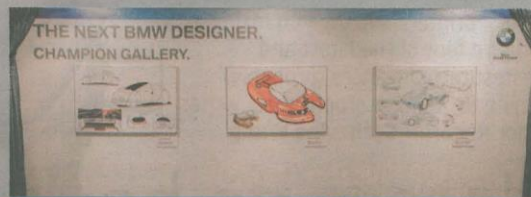
Inspired by the speed and grace of a mako shark, 13-15 age group winner Lau Pak-hei believes his design encapsulates his philosophy that life can be joyful. Apart from its distinctive appearance, his car features ergonomic seats that memorise body shapes for maximum comfort, and in case of emergency, they re-align to absorb the impact of collision.

Lau, design lover and lego builder, said he did not know much about cars before but started out by researching a form of polyethylene which he felt could be used to make very safe cars for its exceptional strength. "In the BMW museum, I will try to find the R32, the first BMW motorcycle made after WWI, and also learn more about the history of Germany during the trip."

Cool and hi-tech

Tsoi Ka-ming, winner of age group 16-18, has created a vehicle very much in line with BMW aesthetics. Its unique sliding door system can save space and reduce accidents caused by opened doors. There is ample space inside the car with highly adjustable seats, as well as a ramp so that an entire wheelchair can be pushed in without having to be folded.

"I've gained a deeper understanding of cars because of this competition, and learned how to make a proper design sketch. I've always been interested in design so hopefully I can follow in this direction when I go to university. Regardless of the discipline, design is meant to improve life so it's challenging and meaningful." He hopes to have the chance to visit the BMW studio to see how cars are designed.



The designs of the champions - Tsoi Ho-yin, Lau Pak-hei and Tsoi Ka-ming - are currently displayed at the BMW Matauwei Showroom (1/F BMW House, 163 Matauwei Road, Tokwan) and will be featured in the company's 2017 calendar.

Robotic wheels

Tsoi Ho-yin, winner of the 10-12 age group, has designed a futuristic vehicle that emphasises safety and comfort. Its wheels, inspired by Star War's BB8 robot, are supported by magnetic levitation, enabling the car to move in all directions so parking in cramped city spaces is never easier. It also has extra safety features for pedestrians and fellow motorists.

"I've always been interested in cars but this competition got me to seriously design a car from scratch, taking into account not just looks



上周收到寶馬代理精心炮製的2017年日曆，內裏收錄了十二幅由本地年輕人所創作的「未來寶馬」得獎作品。寶馬代理董事總經理劉家輝（圖左）向筆者透露，他們為慶祝寶馬誕生100周年，特別與市場部同事構思出一個名為「The Next BMW Designer 2016」的公開設計比賽，給本地10至18歲兒童及青少年參加，結果吸引逾一百五十人踴躍參賽，代理選出12位參加決賽，再從中選出各組別冠軍，得獎者可免費到德國慕尼黑參觀寶馬總部。

據知決賽當日各年輕參賽者都「有備而戰」，除了上台詳盡介紹自己的設計，也能有問必答地向評審解釋細節，十分認真，可感受到他們對汽車的熱情。劉家輝表示這個由香港代理自創的活動如此成功，已決定明年再辦，甚至希望以後每年舉行，讓本地年輕人發揮創意之餘，也為汽車業界帶來更多正能量。