

**URBAN CRUISER**



**ANSWER FOR ECOLOGICAL CITY**

Diploma project of ecological electromobile

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The concept is to create lightweight vehicle with motorcycle design language, but with car comfort. Main usage is for sport activities especially in summer time. In this vehicle you should be able to reach the nature areas near to the city. Car is dedicated to young people between 25 and 35, who are active, and they like spend their free time in active and sport way.



You don't need powerful and expensive car to ride within city. Every city can be split in four zones, depending on speed and applied vehicles. If you can reach other cities by mass transportation, within the city you can get by an alternative electromobile. Which one you will choose, depends only on your personality.



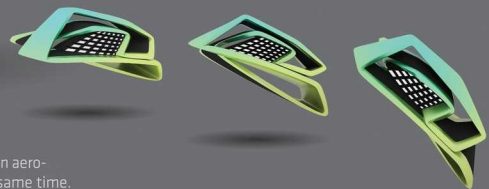
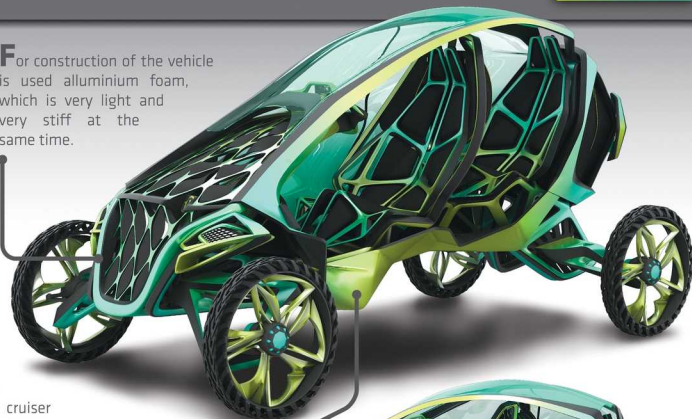
**A**s a cover for rain is used glass with a gradient growing from bottom for a more intimacy. For less conservative people he will be able to change colors or gradient intensity electronically by the smartbook.

**B**atteries will be flexible conductors. This technology enables you to make whole bodywork from this material. You don't need to search place for cruiser weight batteries. They take place at the bottom of car.

**F**or construction of the vehicle is used aluminium foam, which is very light and very stiff at the same time.



4+4 LIGHTWEIGHT U-CAR



**T**he tire tread pattern is designed to clean themselves. It is flexible, and if you make it dirty, on solid road they will push out all mud or other sludge. This pattern arises as a variation of airless wheels.

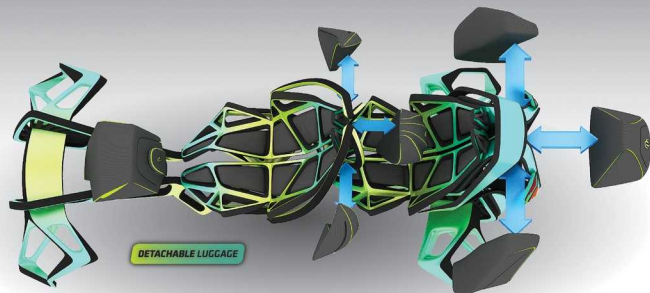
**C**ar can be charged on the fly by feature called wind powered braking system, which is situated in front of the vehicle. It is structure of airscrews which is active only if you push the brake pedal. If so, the airscrews will shrink, so they make an aerodynamic resistance, which slow down the vehicle and also recharge battery at the same time.





For variety of sport you need a lot of equipment for which you need space. For example climbing, sport diving, roller skating, paragliding, and others more or less adrenaline sports. Accordingly, important interior features are detachable luggage, which you can take anywhere you want.

There is no useless space in this car, only backpacks, which you can decide to take with you. This fact is related to the sporty nature of the car.



U-BOOK CONTROL UNIT



The vehicle is closely connected with smartbook usage. This device takes care about battery stamina, also notice you about how many kilometers you can drive with your charged battery according to distance measured by GPS module. It also serves as a reduced dashboard which displays basic drive information.

Some of the backpacks when attached to the interior body, can serve as a storage space for personal things, such as a driving license, ID card, etc.



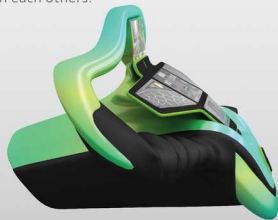
The unified port named CAR PORT enables you to connect supported devices to your vehicle. This is similar philosophy as USB port, which enables you connect some USB devices and in fact improve abilities of your computer. Here you can check your power management, navigation, and many other services which provides NG CONNECT network.



CAR-PORT SYSTEM



You can stay connected with all your social networks and news channels in the car and also anywhere you go. This concept expect usage of existing NG connect network which is supposed to connect all cars on the network and assemble information about roadway, drive conditions and share with each others.



Smartbook can be easily folded to compact version which is similar to size of small book, or slightly bigger wallet. So that you can take with you all your connectivity and be online anywhere you want. Compact packing is made by firm textile, so if it will damage, it is more easily changeable than some solid mechanic parts. The flexibility of folding is also more easily with textile than with some mechanic joints.



A large, light gray silhouette of a car is centered on a dark gray background. The car's shape is simplified, showing the hood, roof, and rear. The wheels are represented by stylized, multi-spoke patterns. The overall aesthetic is modern and minimalist.

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