romanbasti

Slovensko
launchforth.io/romanbasti/

FOCUS AREAS OF INTEREST

3D Modeling | 3D Printing | Aerodynamics | Design Engineering | Exterior Vehicle Styling | Industrial Design | Industrial Engineering | Interior Design | Interior Vehicle Styling | Transportation Design | Virtual Reality

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ENTRY

Validated
renovato

ENTRY

Validated
RB_LocalMotorsSLR

Feedback

Entry: renovato

romanbasti 3 years ago

OVERVIEW

I am thinking of a vehicle made with multi-material 3D printer. The bonet /cage meeting nowadays safety standards/ including seats for passangers will be made of a composite material such as ABS plastic compound LNP™ polymeres /combination of about 80 percent ABS plastic and 20 percent carbon fiber reinforcement is tough as metal. It may look like too lightweight, but the carbon-reinforced ABS plastic is stronger and denser than it appears as they say in LM/ They are planning to manufacture an airbus with 3Dprint where the complicated curved fuselage will be done this way and first of all it should be 65% lighter than with traditional manufacturing methods /ref: http://www.forbes.com/sites/parmyolson/2012/07/11/... Sure there are many more forwardlooking options of HIGH-TECH MATERIALS used to be 3Dprinted like: nanotechnology and nanomaterials, graphene /200 times stronger than steel, but as thin as an atom/, aerogel /lightest materials/ or smarthphone glass /half the weight of conventional laminated glass/ where we can move over to get the most of LEIGHTWEIGHTING /ref: http://www.autoalliance.org/auto-innovation/high-t... According to stricter regulations new level of innovation must be applied in all parts of vehicle. We must get weight / cost and performance BALLANCED. After we change the powertrain to electric / hybrid and by lightweigting programme we can get into vehicle more batteries, change the capacicty of fuel tank, we use a small combustion engine /let's assume we run out of petrol in a d... batteries again on./ As they did by example wi... http://www.netcarshow.com/land_rover/2014-ra... using its all-aluminium monocoque Lightweight technologies cut weight by up to

AEREON 33

lucashernanlopez81

96 ★ 75 👁 49

entry Accepted

Team WIKISPEED SGT01

teamwikispeed

3 ★ 5 👁 45

entry Accepted

APALIS

sheetanshu

46 👁 23

entry Accepted

CAPACITY CONCEPT

reveszrichard90

56 ★ 18 👁 18

entry Accepted

Cubozoa.

sagdiyev

31 ★ 4 👁 16

entry Accepted

LITECAR

zhenek2481

26 ★ 2 👁 14

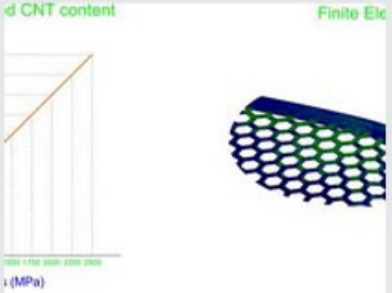
entry Not Valid

Drift EV - a plug and play car

Rob_Ellison

6 👁 14

entry Accepted



SMART ADDITIVE MANUFACTURI...

arfian

20 ★ 20 👁 13

entry Accepted

Aerodynamic water droplet with st...

tovara

Inflatable car

michalduclak

renovato

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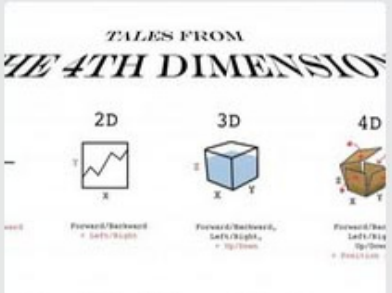

3D and4D printing,sustainable po...

marcelinoseko

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teamwikispeed

3 5 55

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lucashernanlopez81

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entry Accepted

CAPACITY CONCEPT

reweszrichard90

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entry Accepted

APALIS

sheetanshu

46 21

entry Accepted

Aerodynamic water droplet with st...

tovara

2 22 18

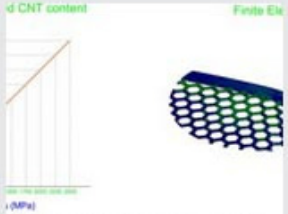
entry Accepted

Drift EV - a plug and play car

Rob_Ellison

5 14

entry Accepted



SMART ADDITIVE MANUFACTURI...

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entry Accepted

Cubozoa.

sagdiyev

21 4 12

entry Accepted

LITECAR

zhenek2481

26 2 11

entry Not Valid

SINTER

mihai

56 10 9

entry Accepted

SKELETOS

lakherasumit

11 8

entry Accepted

Meteor - Electric hybrid car with Di...

dam123

7 1 8

entry Accepted

The All Aluminum Avanti

Ambient Temperature Resistant EL...

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1923 Ford Model T Sedan with a S...

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LITECAR Challenge

Watching 4 Star 0 Edit

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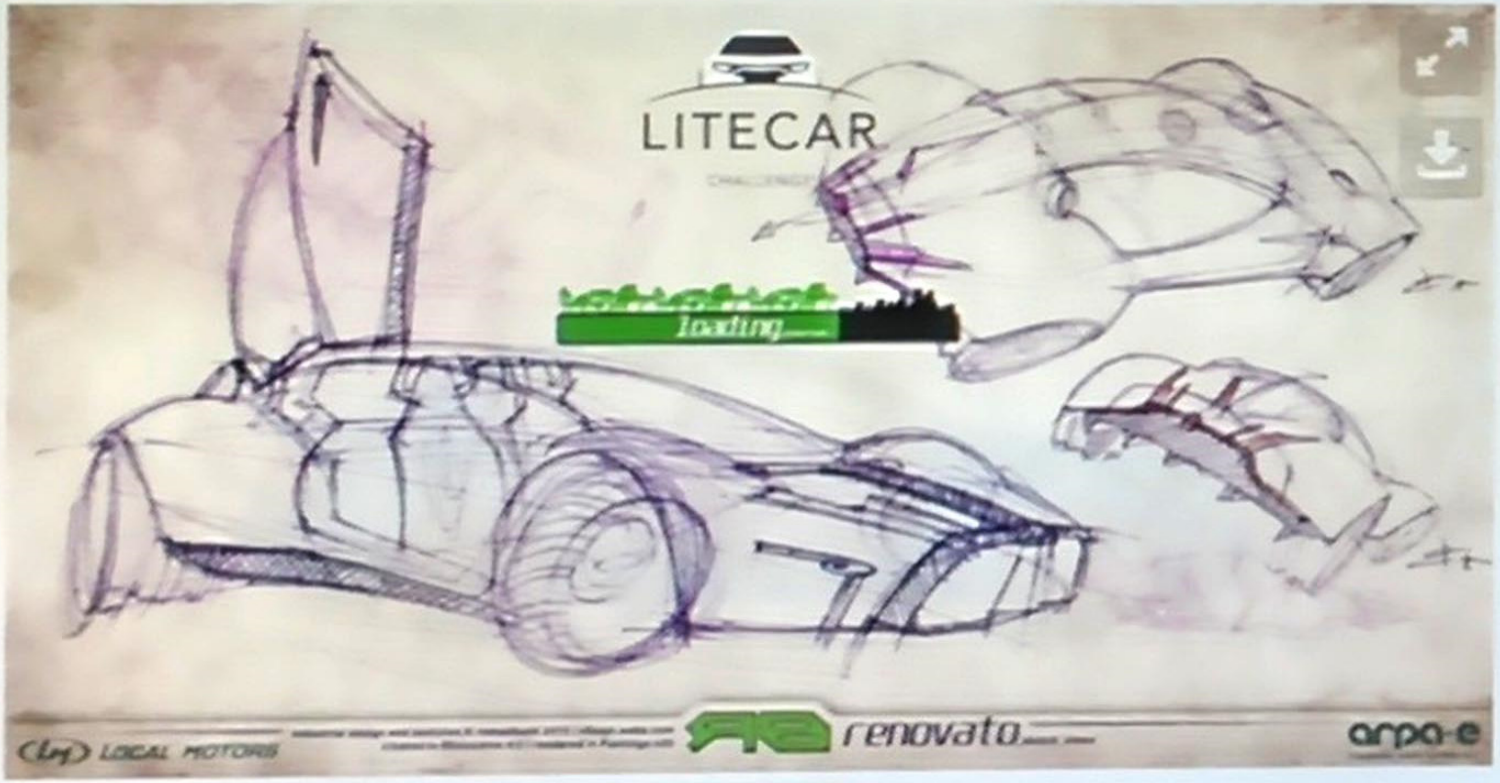

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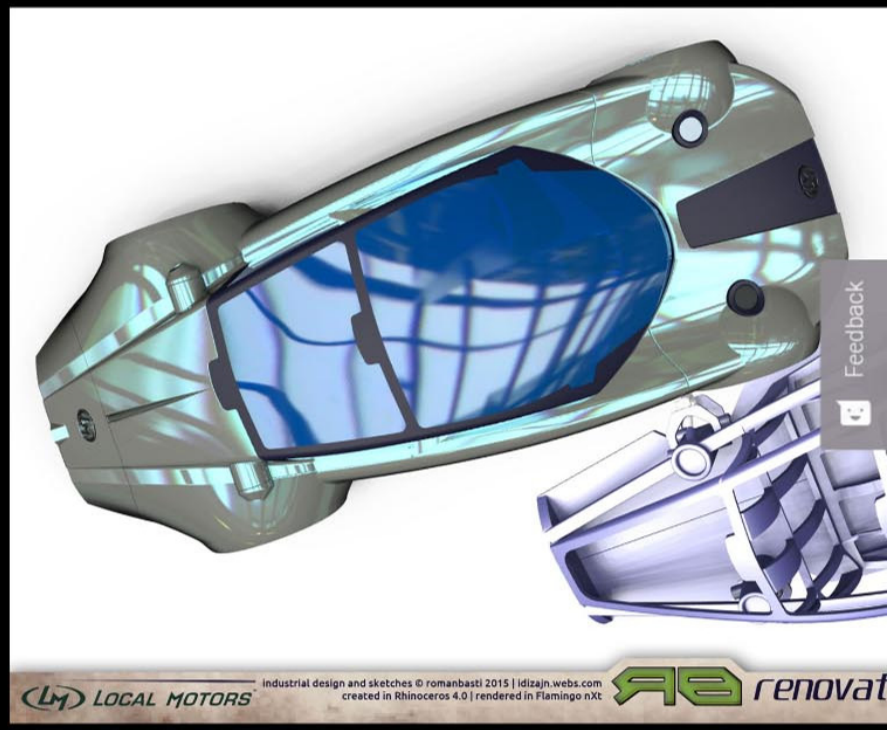

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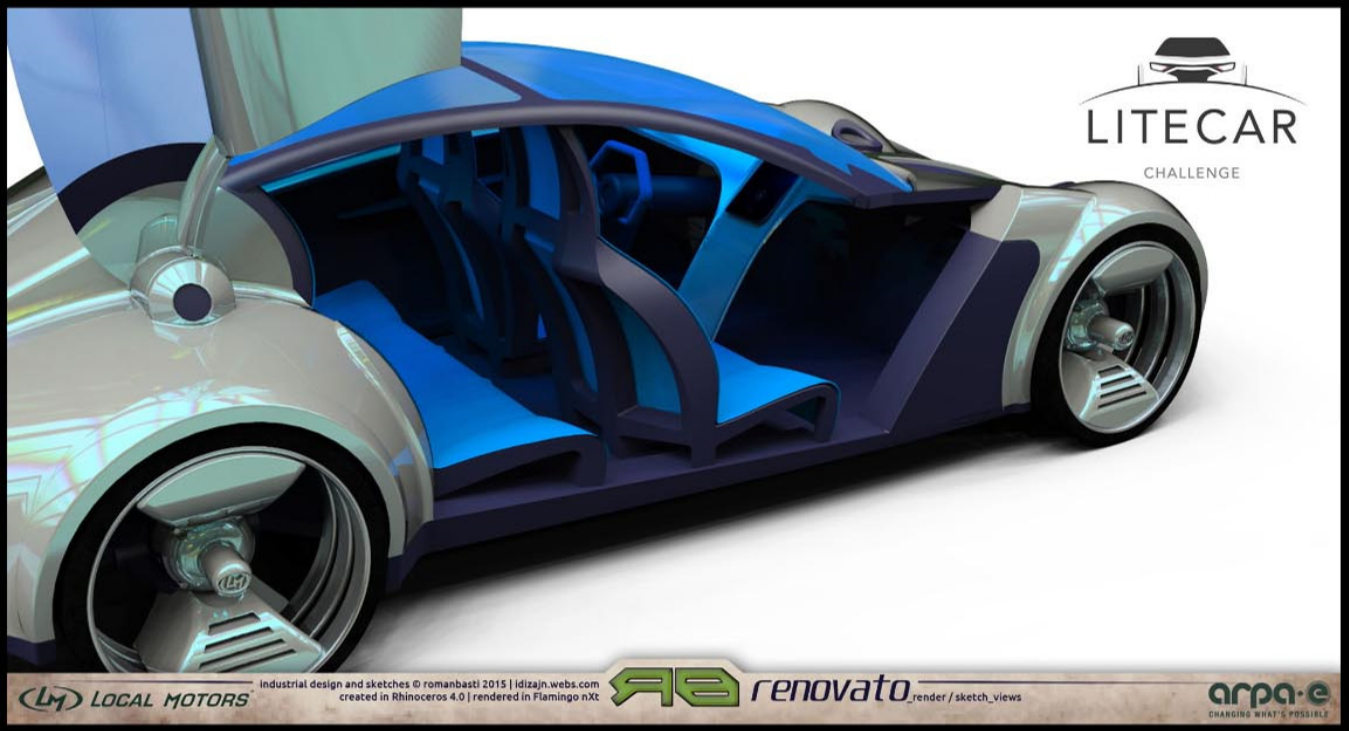

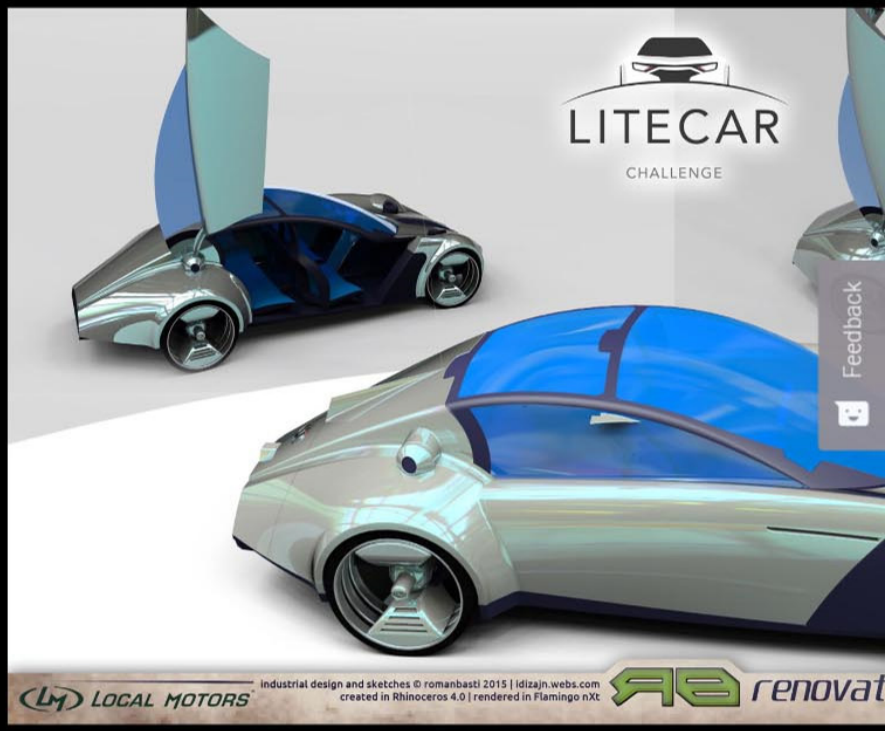

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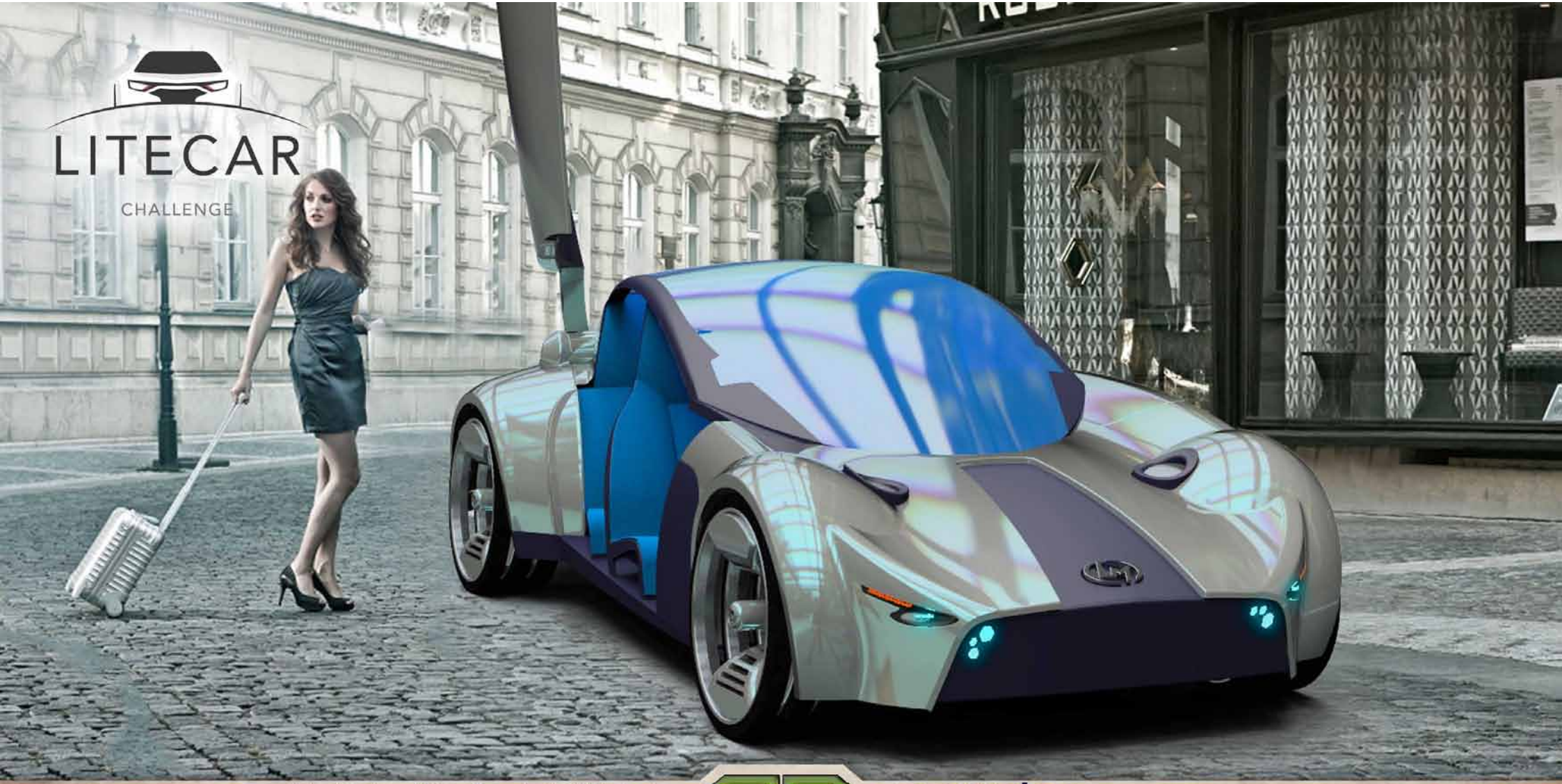

LOCAL MOTORS

created in Rhinoceros 4.0 | rendered in Flamingo nXt

renovato_render / sketch_views

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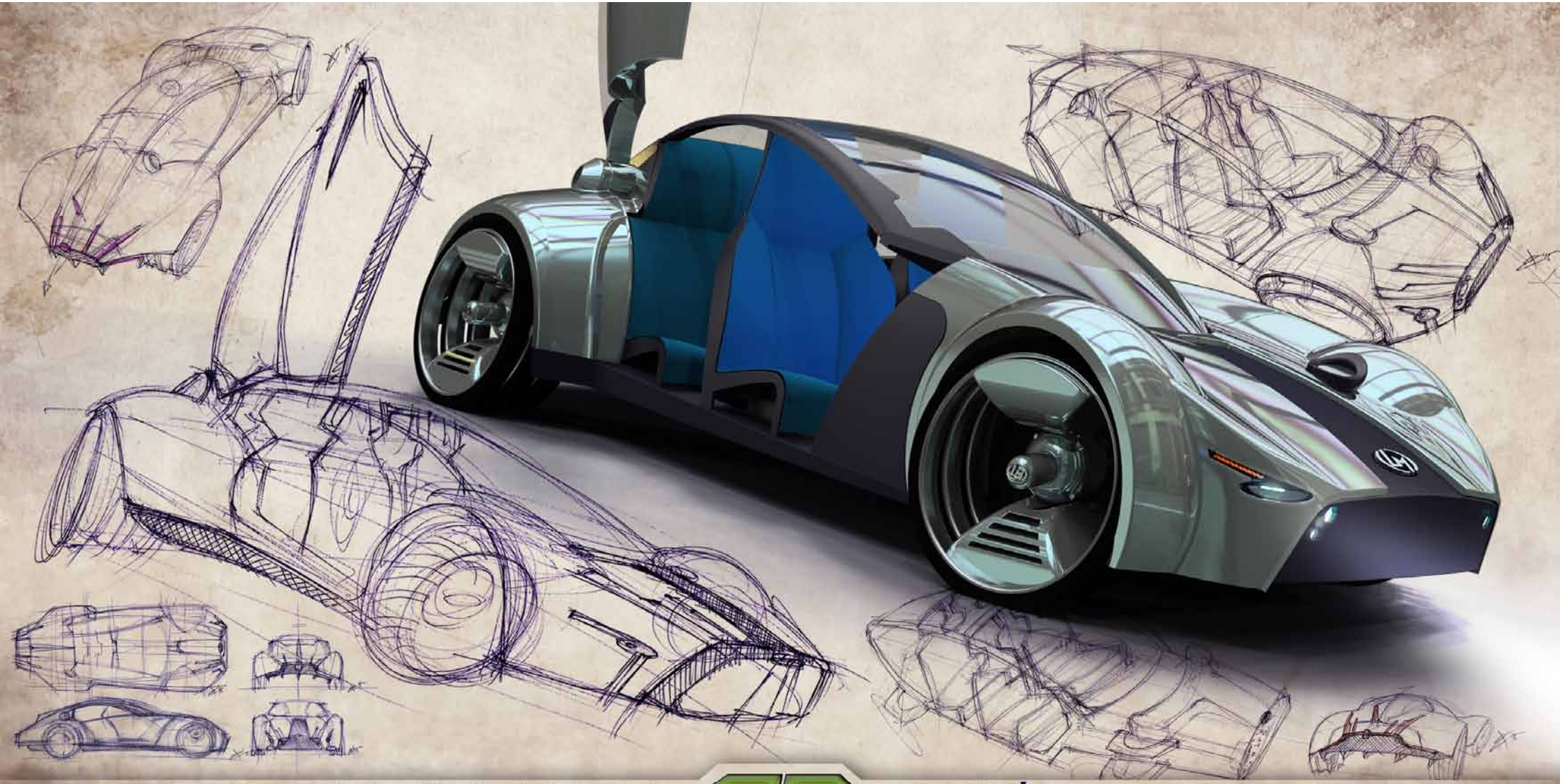

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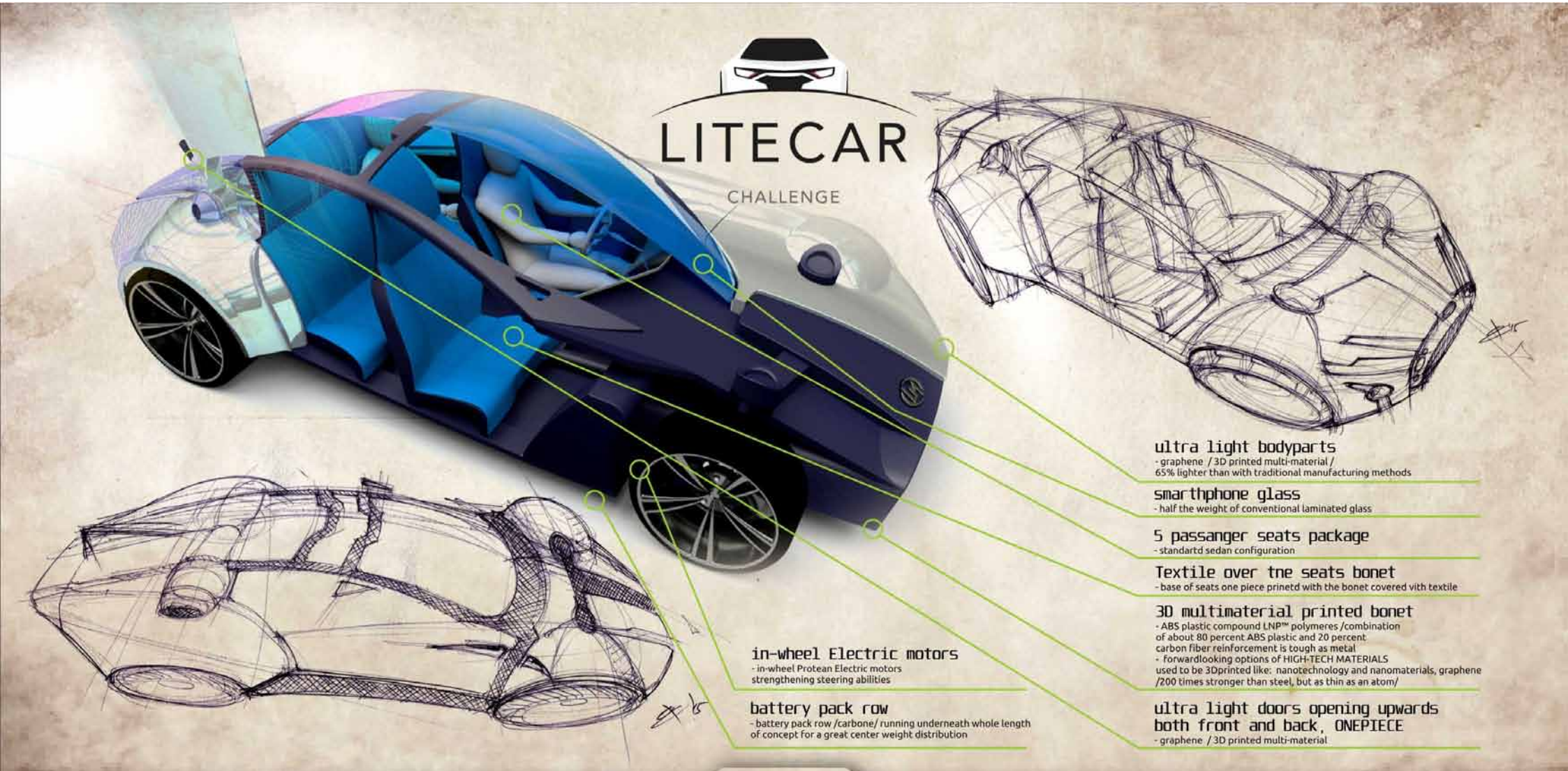
renovato_localmotors.com | LITECAR Challenge design entry

LOCAL MOTORS LITECAR

LITECAR

CHALLENGE



ultra light bodyparts
- graphene / 3D printed multi-material /
65% lighter than with traditional manufacturing methods

smarthphone glass
- half the weight of conventional laminated glass

5 passanger seats package
- standartd sedan configuration

Textile over tne seats bonet
- base of seats one piece prinetd with the bonet covered vith textile

3D multimaterial printed bonet
- ABS plastic compound LNP™ polymeres /combination
of about 80 percent ABS plastic and 20 percent
carbon fiber reinforcement is tough as metal
- forwardlooking options of HIGH-TECH MATERIALS
used to be 3Dprinted like: nanotechnology and nanomaterials, graphene
/200 times stronger than steel, but as thin as an atom/

ultra light doors opening upwards both front and back, ONEPIECE
- graphene / 3D printed multi-material

in-wheel Electric motors
- in-wheel Protean Electric motors
strengthening steering abilities

battery pack row
- battery pack row /carbone/ running underneath whole length
of concept for a great center weight distribution

LOCAL MOTORS

created in Rhinoceros 4.0 | rendered in Flamingo nXt

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CHANGING WHAT'S POSSIBLE

C pillar
- inside the bonet to follow nowadays safety standards made of a 3D printed muli-material composites

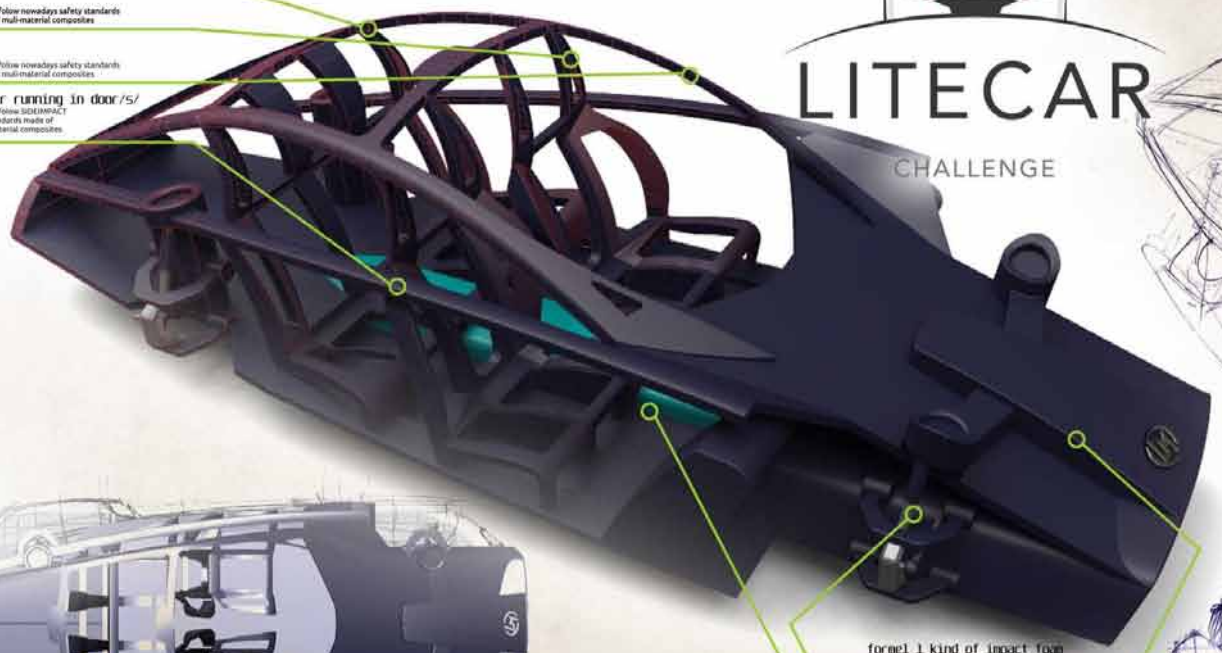
B pillar
- inside the bonet to follow nowadays safety standards made of a 3D printed muli-material composites

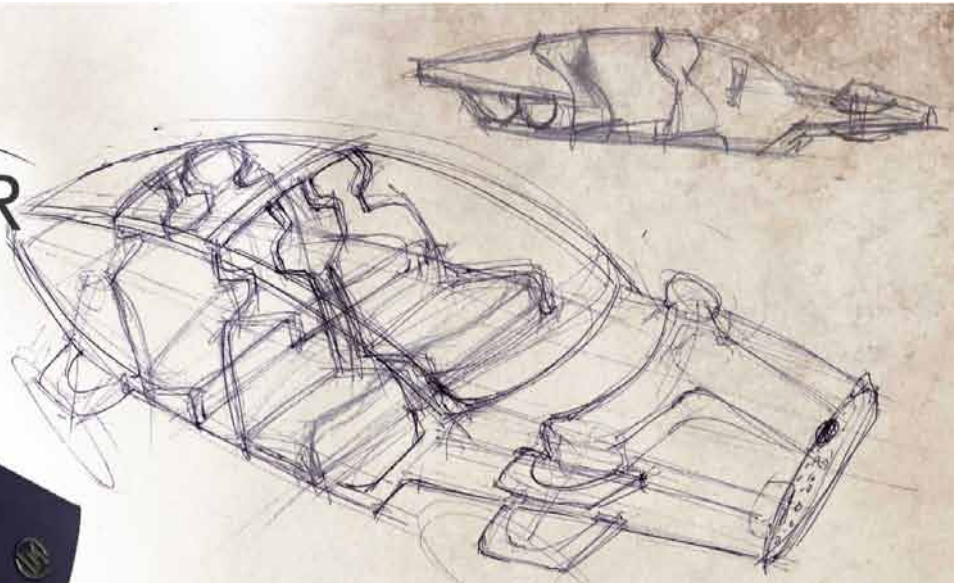
A pillar
- inside the bonet to follow nowadays safety standards made of a 3D printed muli-material composites

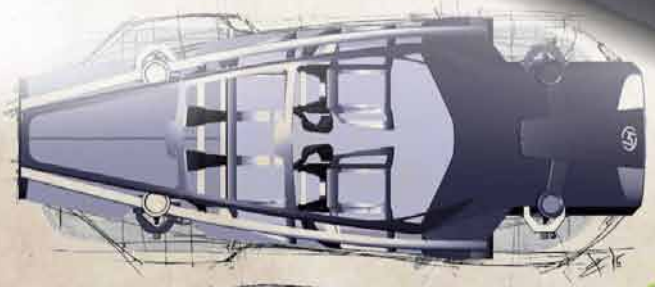
cross pillar running in door/s/
- inside the bonet to follow SIDEIMPACT nowadays safety standards made of a 3D printed muli-material composites

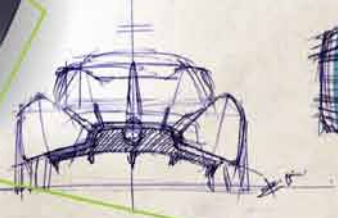
LITECAR

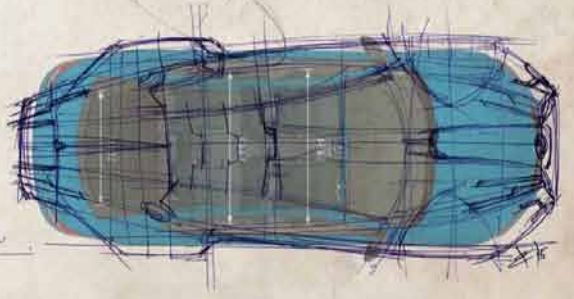
CHALLENGE











formel 1 kind of impact foam
- impact absorbing structure beeing part of a front

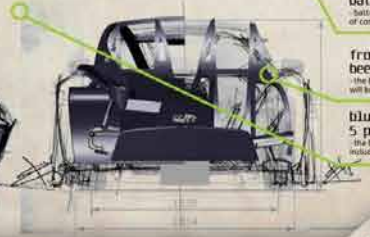
blueprint of a standard 5 passanger sedan
- standartd sedan configuration comparation of the concept

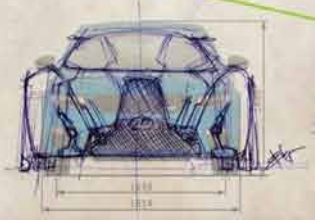
3D multimaterial wheel suspension
- made of a 3D printed muli-material composites

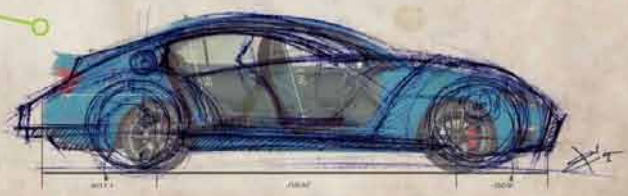
battery pack row
- battery pack row /carbone/ running underneath whole length of concept for a great center weight distribution

front cut of seats showing B pillar beeing a part of bonet
- the bonet including seats for passangers will be made of a composite materials

blueprint of a body bonet standard 5 passanger sedan
- the bonet /cage meeting nowadays safety standards/ including seats for passangers will be made of a composite materials







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CHANGING WHAT'S POSSIBLE

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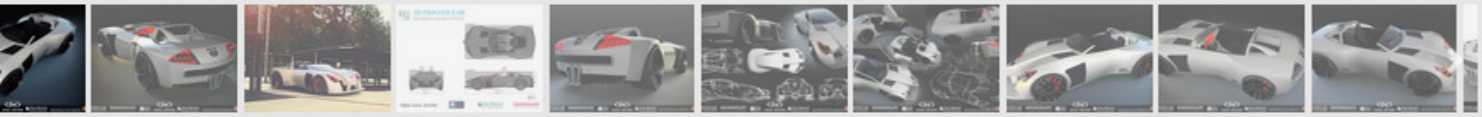

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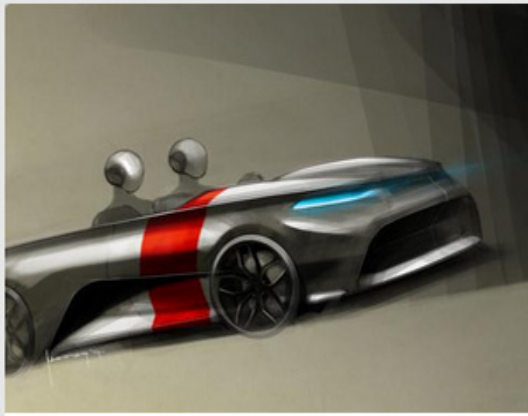
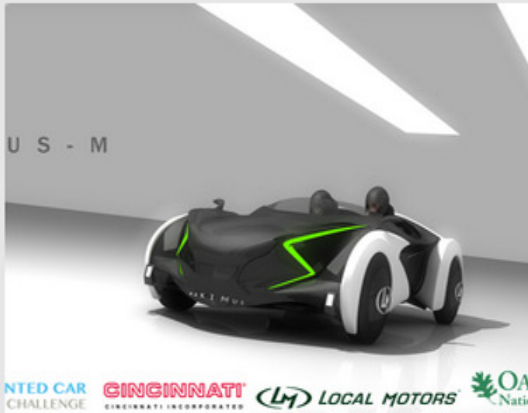


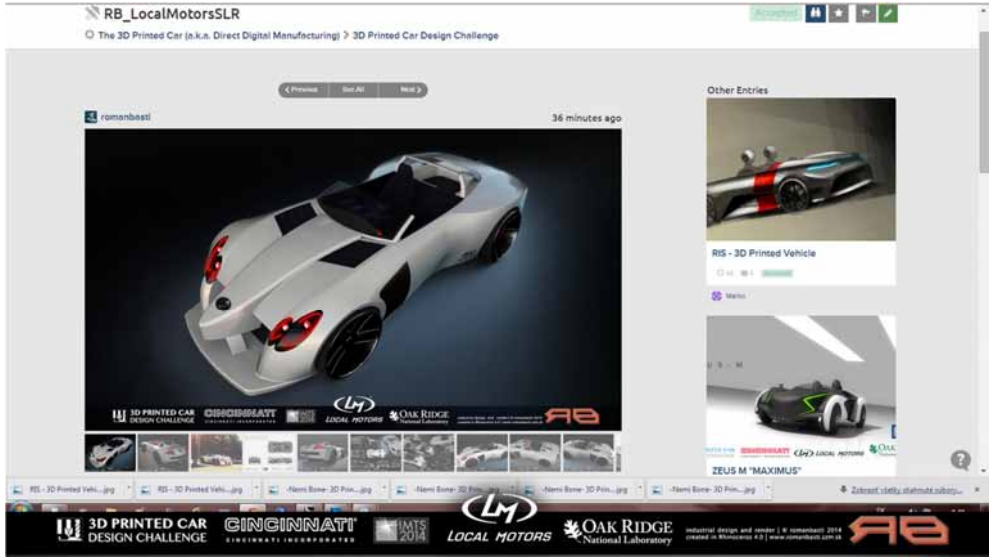
RIS - 3D Printed Vehicle

4d 4 Accepted

Marko



ZEUS M "MAXIMUS"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The 3D Printed Car (a.k.a. Direct Digital Manufacturing) > 3D Printed Car Design Challenge
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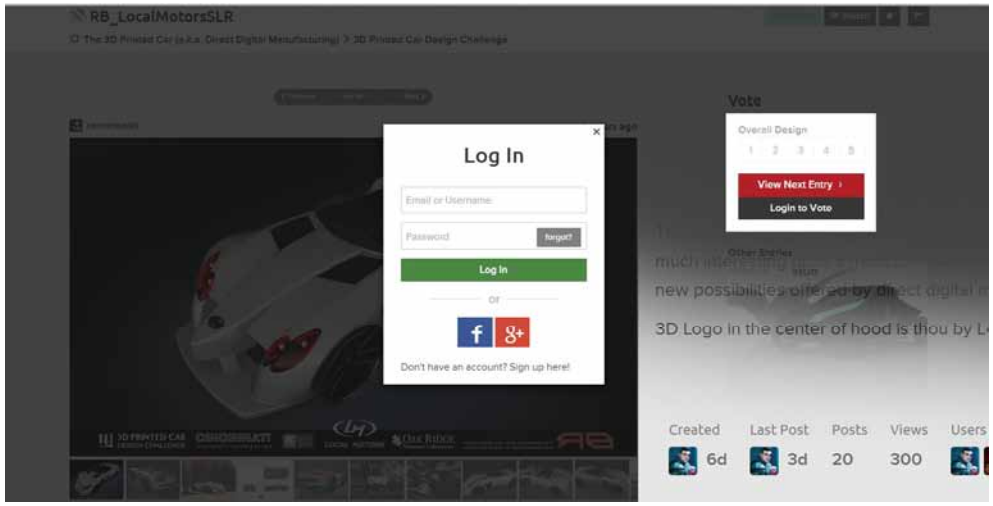
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3D PRINTED CAR
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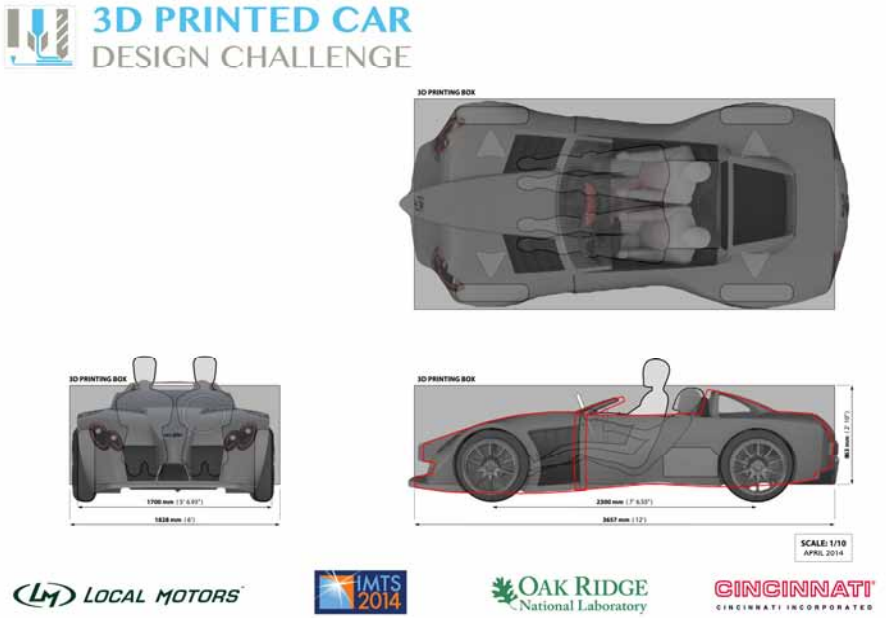
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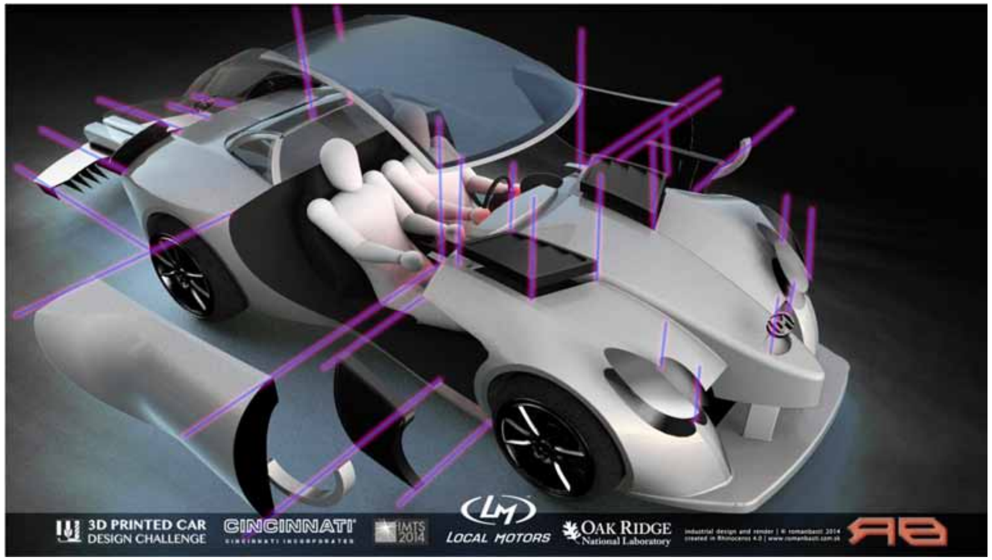
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