



# ALEX SCERBA

fall 2024 design portfolio.



HUSQVARNA VAL



RAM: CENTRAL AMERICA



CHEVROLET VISION SS



**HUSQVARNA VAL**

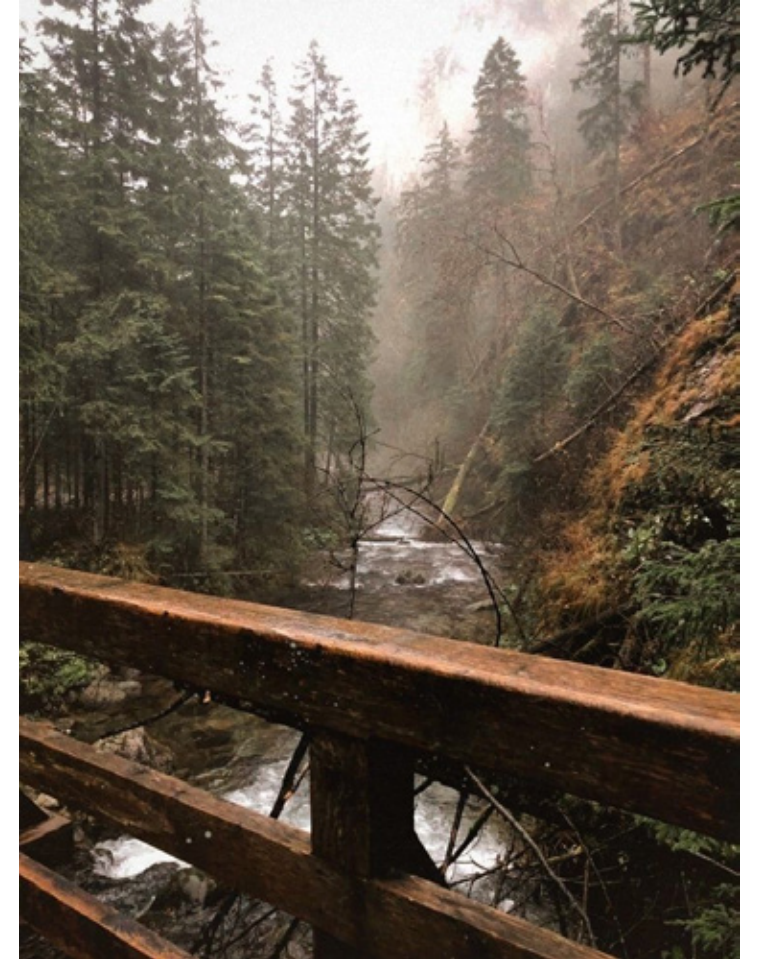
off-road how you choose.



## Electric Off-Road Adventure

Adventure riders of the future need maximum range and storage while benefiting from electric silence and simplicity to keep them more connected to nature.

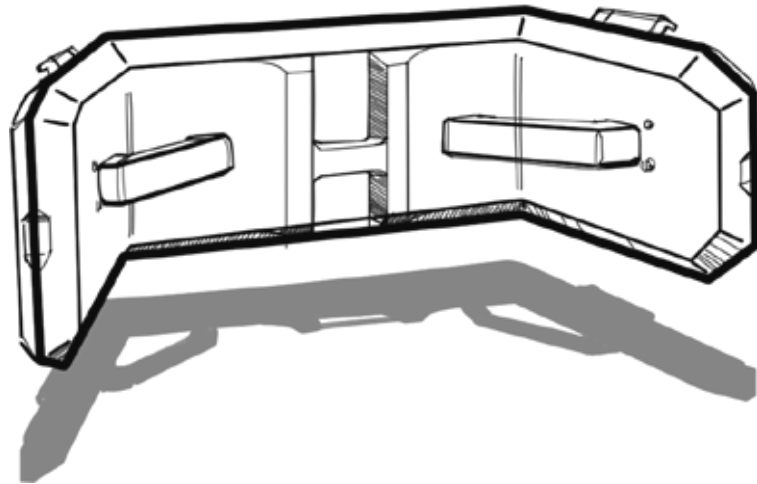
Sidecar technology allows for greater range and cargo capacity for the future of electric off-road adventure riding.





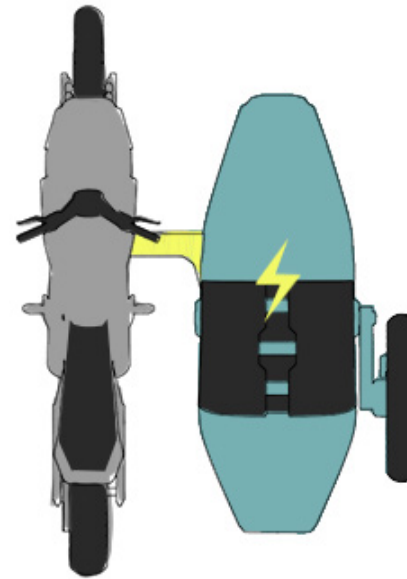
## Multi-Use

Through the modular beam, the sidecar acts as a range extender, cargo storage, and/or passenger seat. Quickly detach sidecar for scouting ahead or easily switch to other side for more comfortable driving in varying regions/terrain.

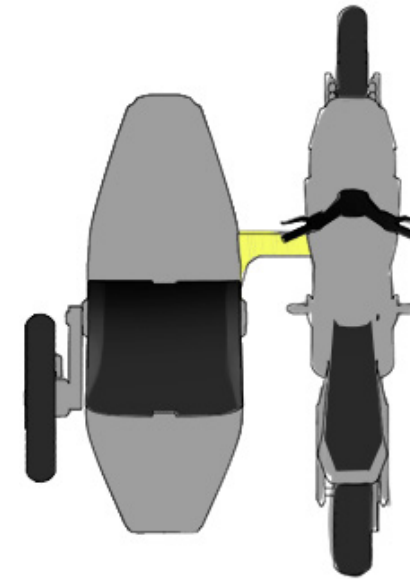


## Modular Sidecar Beam

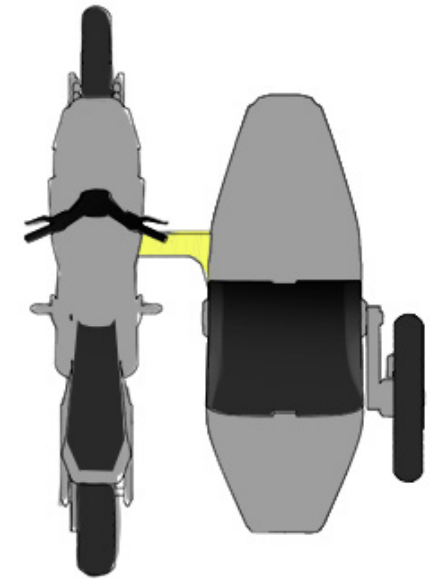
Robust, tech-packed beam houses the key sidecar electronics while structurally attaching it and the motorcycle.



RANGE EXTENDER



RIGHT-HAND DRIVE



PASSENGER/GEAR



INSPIRATION



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## Form Language

Soft yet refined surfaces for touch points and interaction areas.

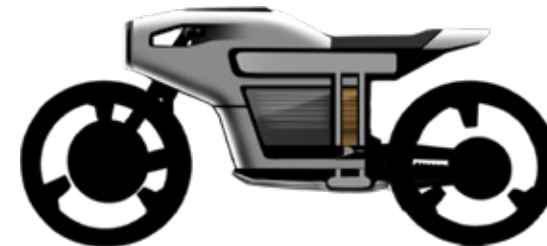
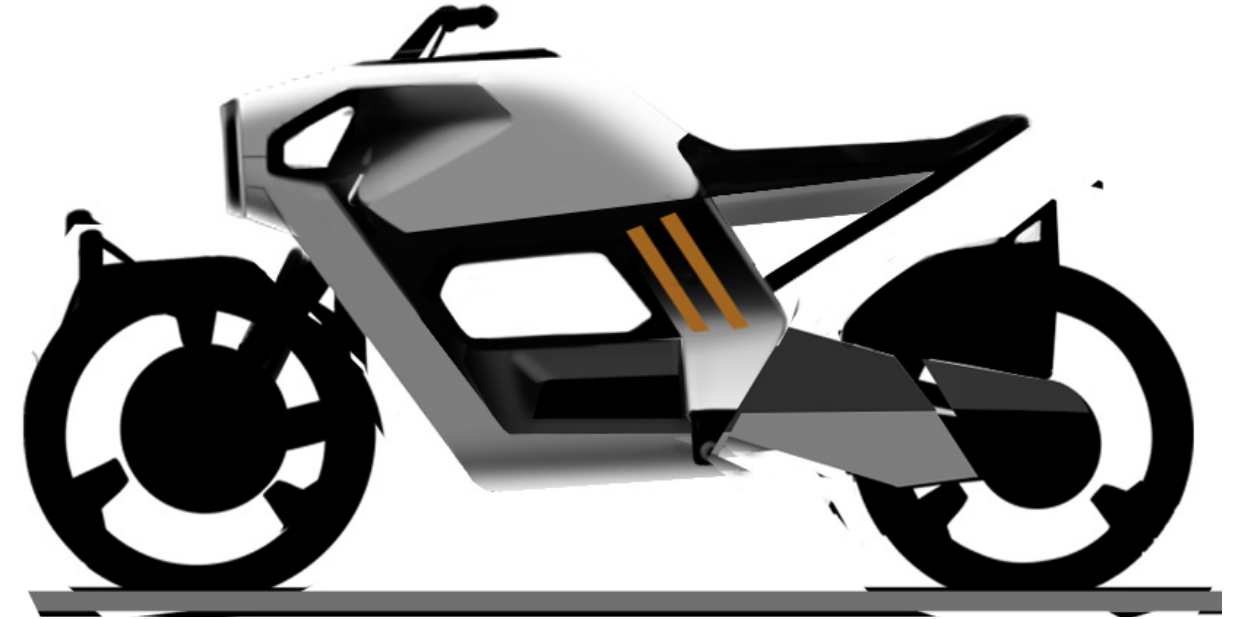
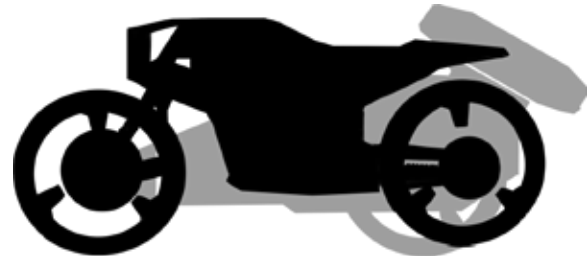
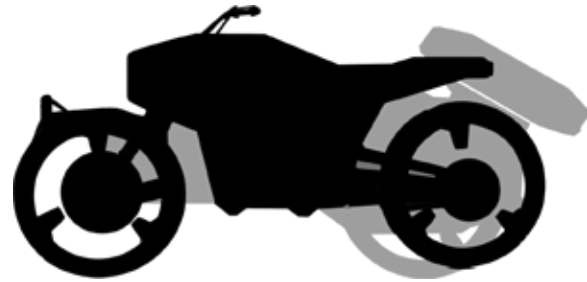
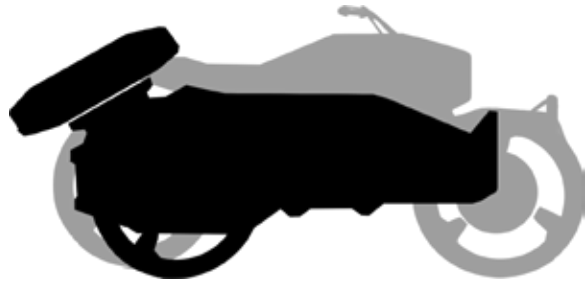
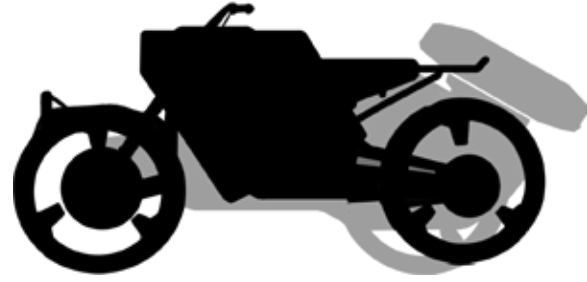
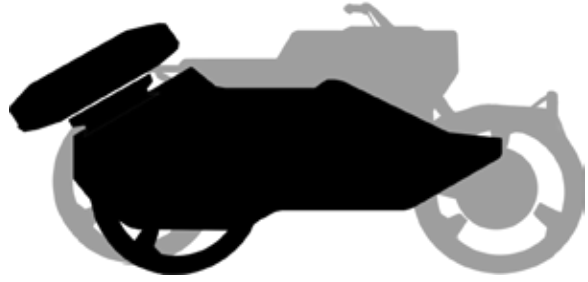
Robust, technical forms for structural and driving components.

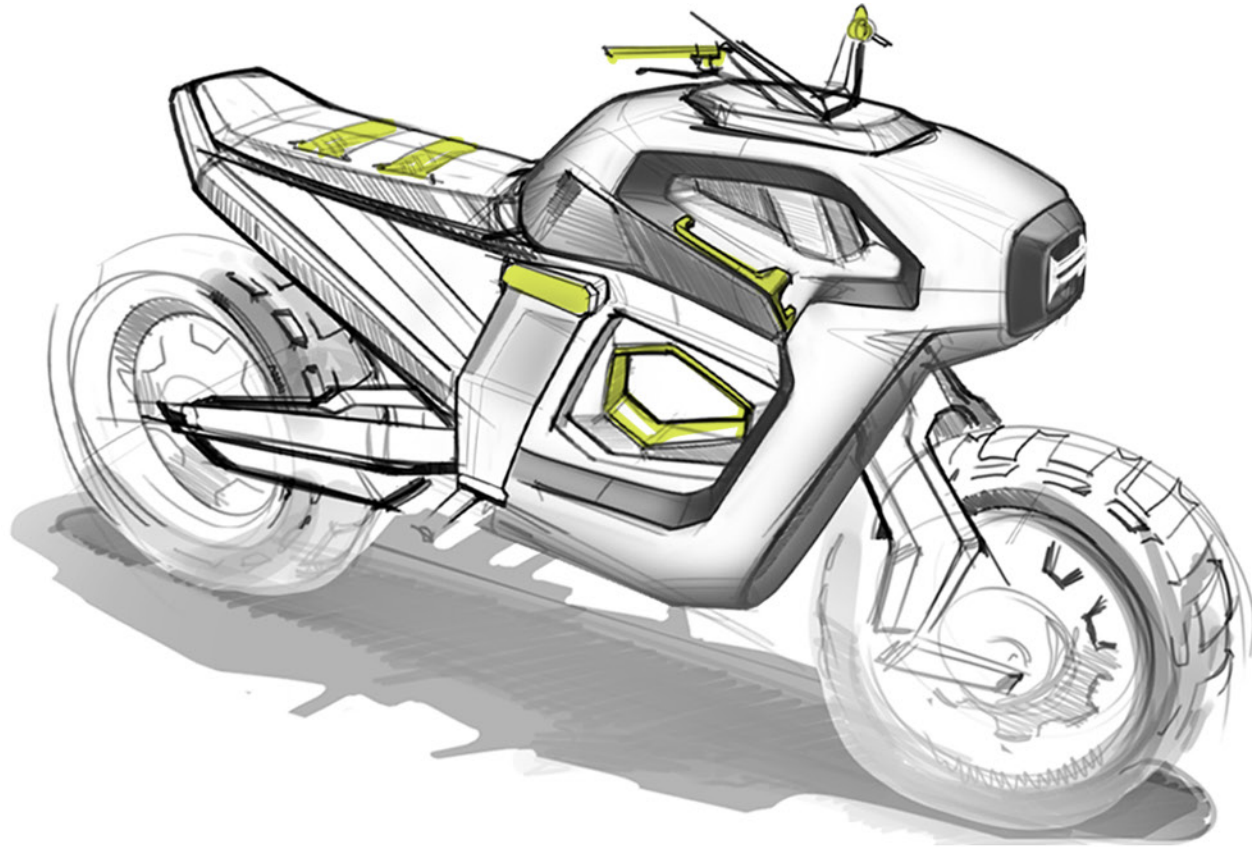




IDEATION

# HUSQVARNA VAL





Theme combining lessons learned from side silhouette studies.

## Seat Textures

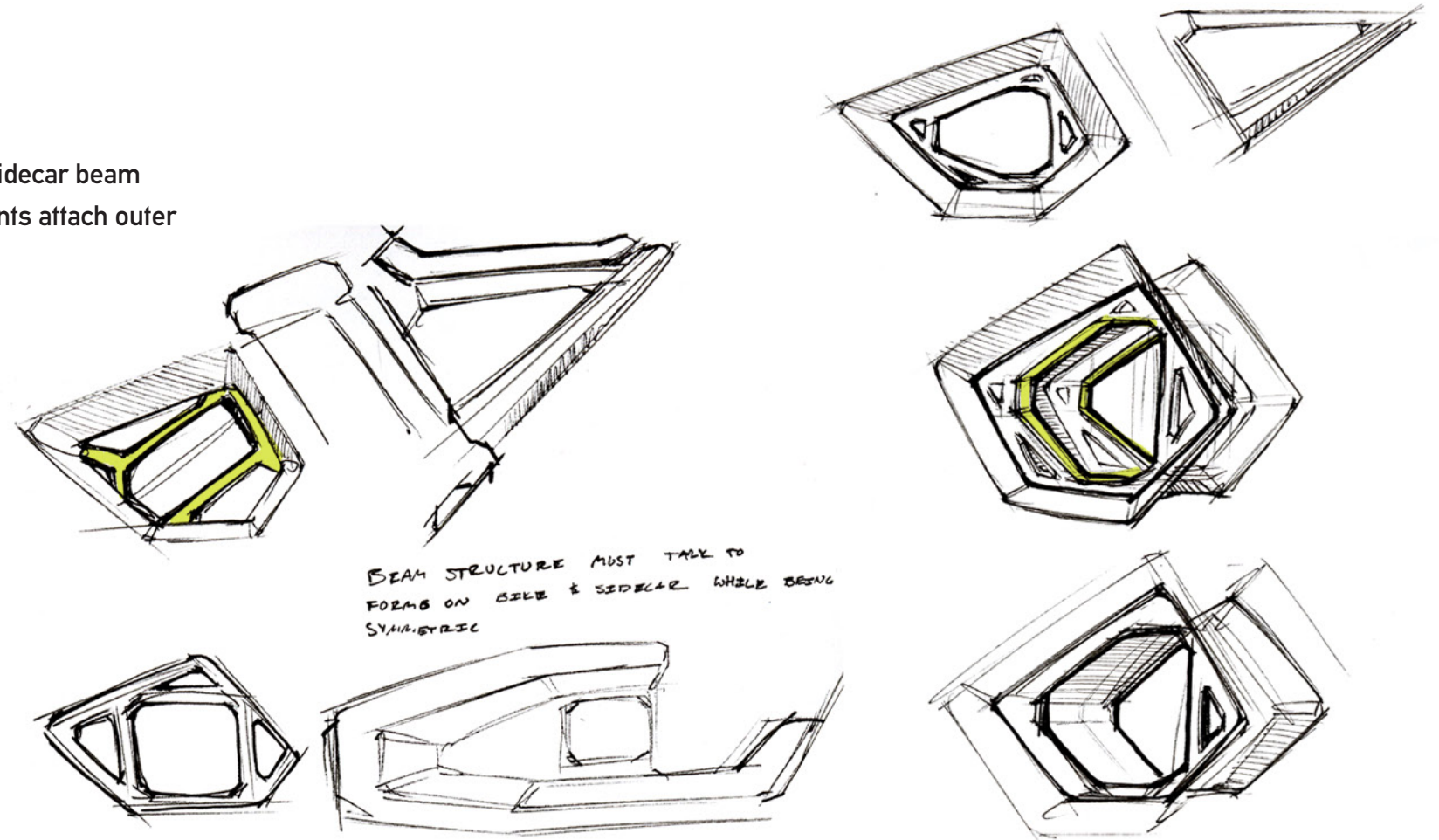
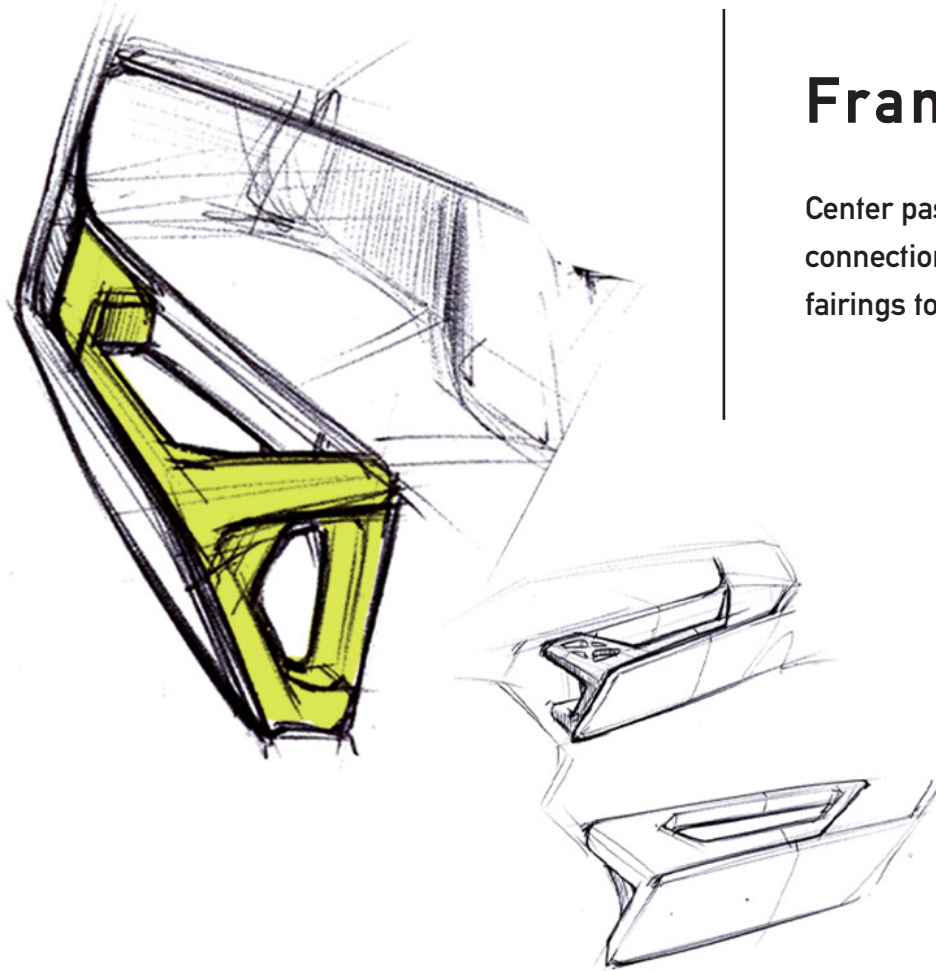
Advanced anti-slip strips sewn into upholstery keeps rider planted on seat in wet conditions.



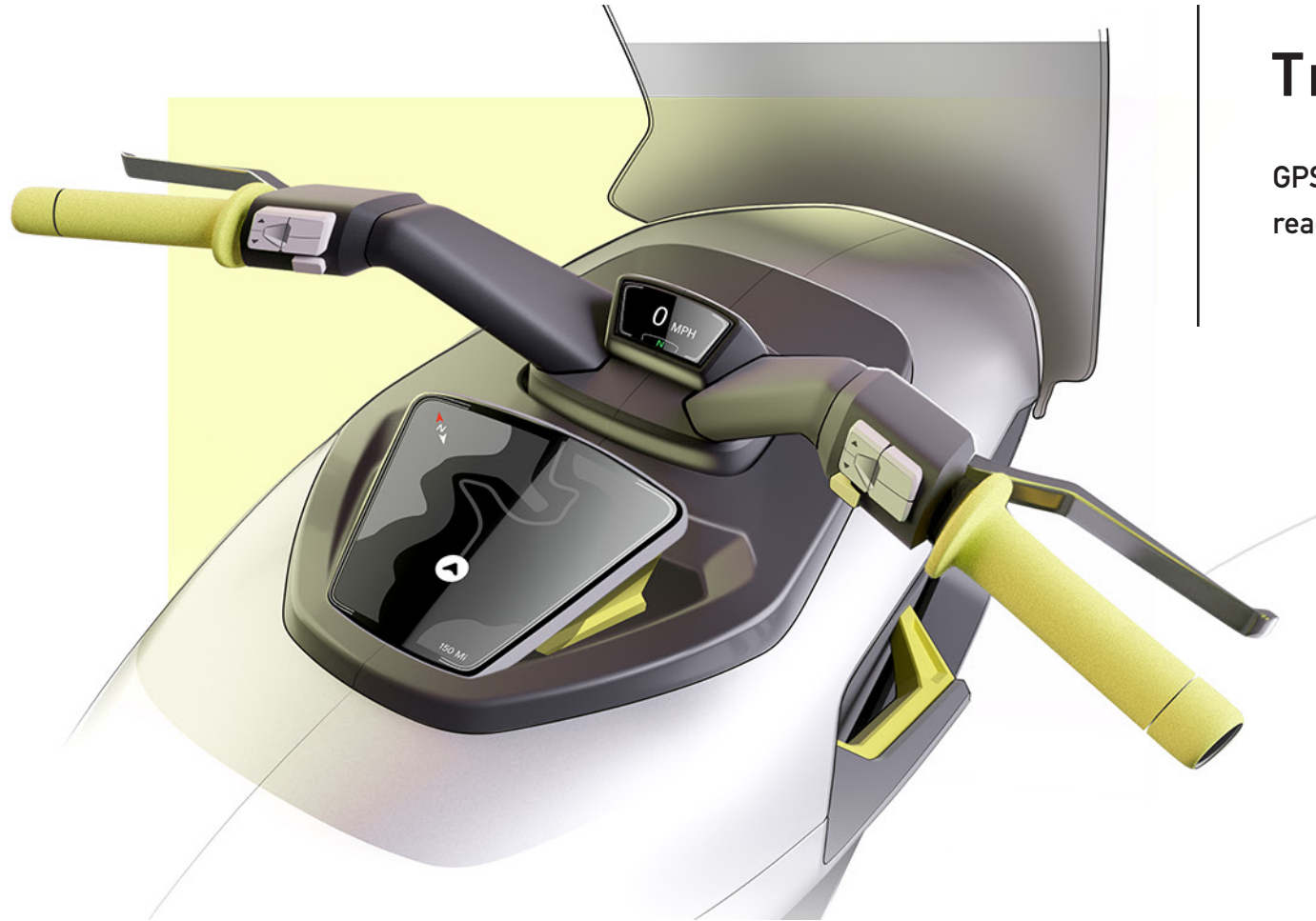


## Frame Details

Center pass-through allows for sidecar beam connection, and structural elements attach outer fairings to motorcycle.

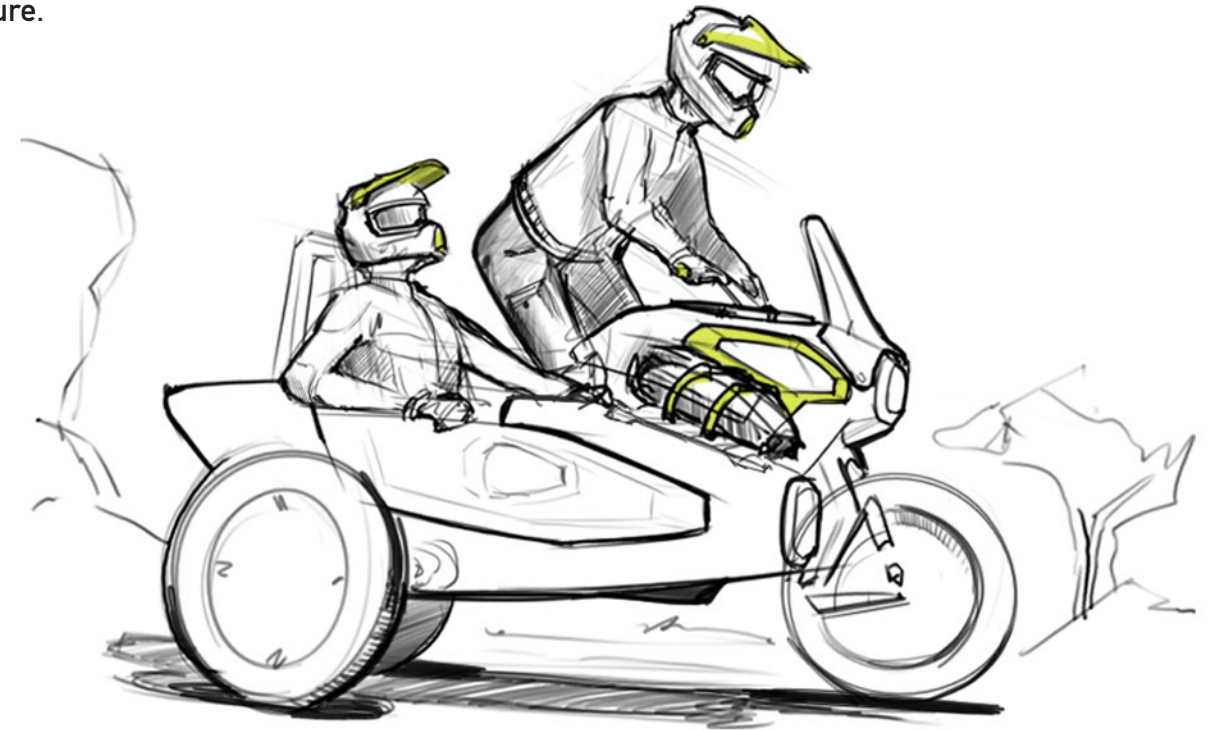


BEAM STRUCTURE MUST TAKE TO FORMS ON BIKE & SIDECAR WHILE BEING SYMMETRIC

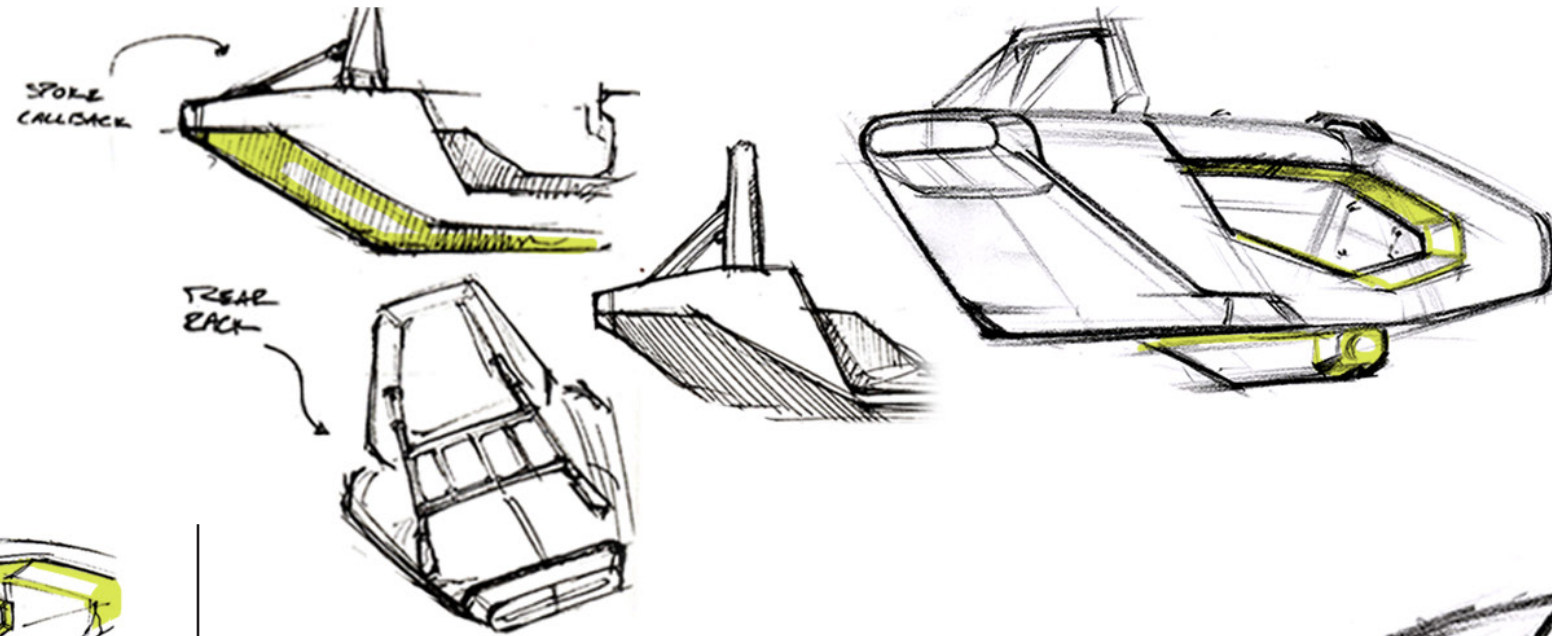


## Trail Nav. System

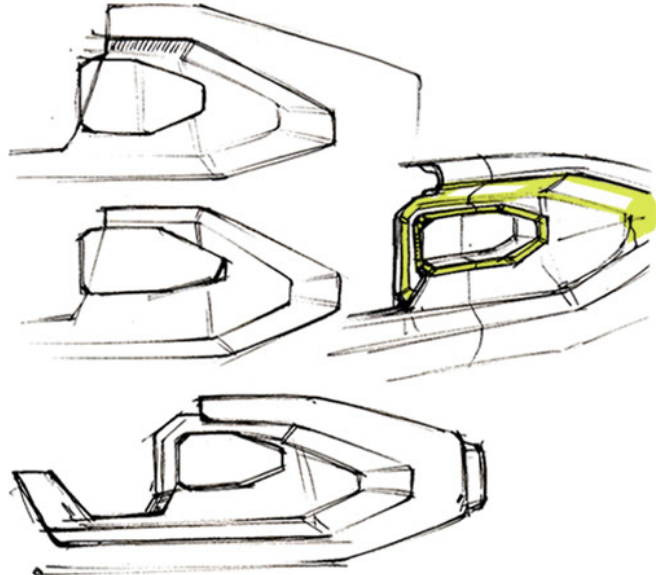
GPS navigation system pre-loaded with popular off-road trails ready for adventure.





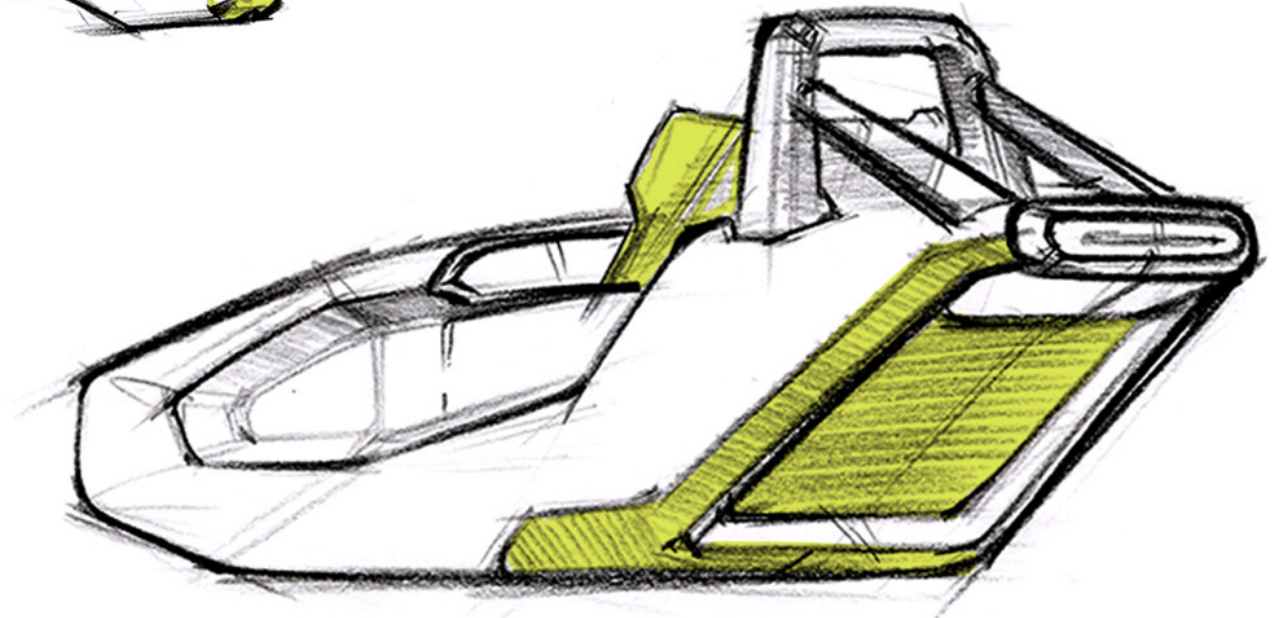


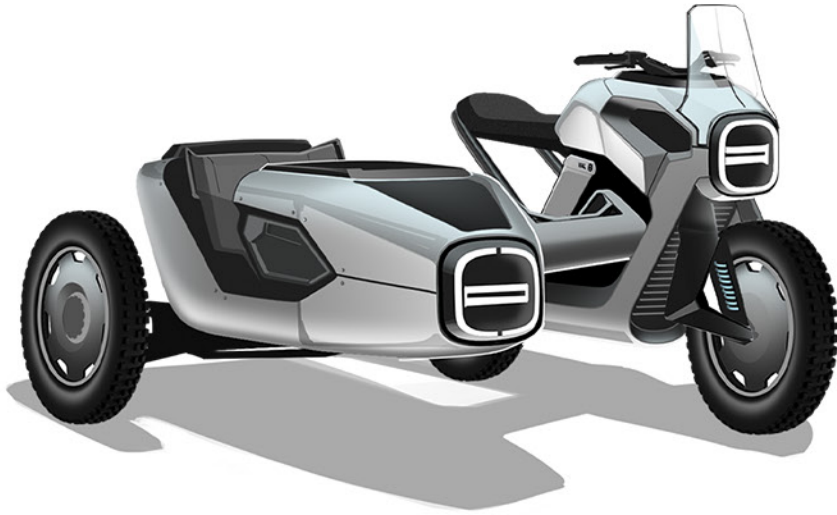
Roll beam and external mount points for gear.



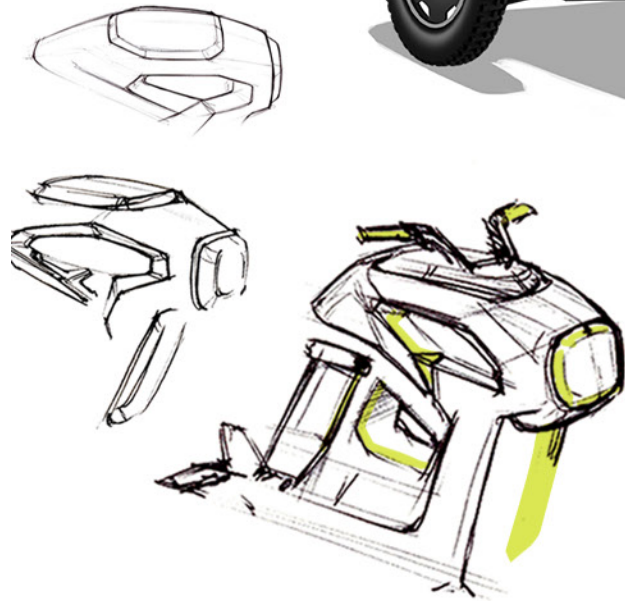
## Sidecar

Side shapes allow interface with attachment beam and rear area houses range extending batteries.





Robust features and upright stance provides confidence in off-road handling characteristics.



## Final Theme

Windscreen addition for added protection from the elements.







FINAL RENDERS

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FINAL RENDERS

# HUSQVARNA VAL











ANIMATION

HUSQVARNA VAL

[LINK TO ANIMATION](#)





# **RAM**

# **CENTRAL AMERICA**

compact utility truck interior for the year 2050.



## Miguel

A business owner, Miguel spends his days clearing trails, moving items around the property, and tending to his family.

He needs a vehicle capable of adapting to his varied and hard working lifestyle.

## PROBLEM

Current small size work truck interiors aren't flexible enough for trail and city use. Down vision is compromised due to ICE power-train and safety regulations compared to side-by-side vehicles.

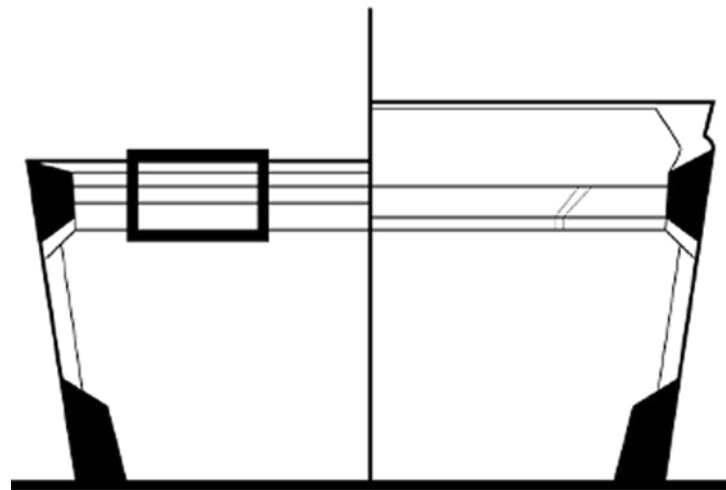
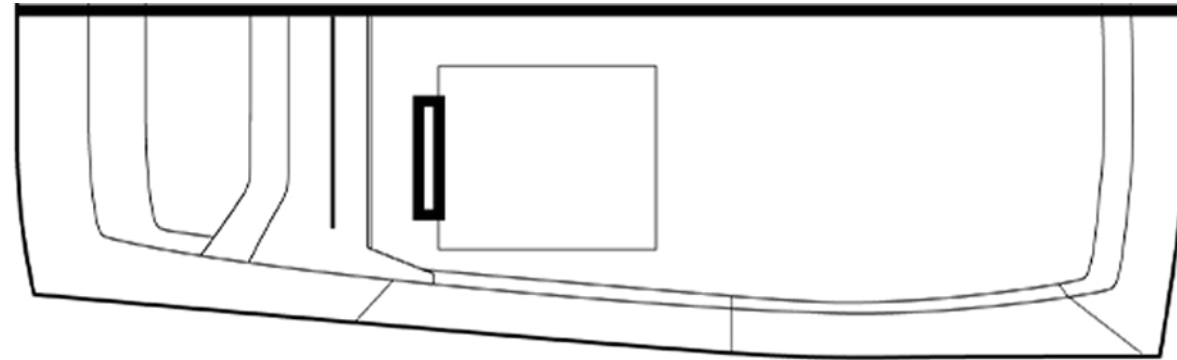
## SOLUTION

Modular IP rail and seats to allow for center seat configuration or addition of storage pods. Transparent lower panels allow for increased down vision when on trails.



## RAM 1000 Package

RAM's small truck platform for the global market.



1844 mm

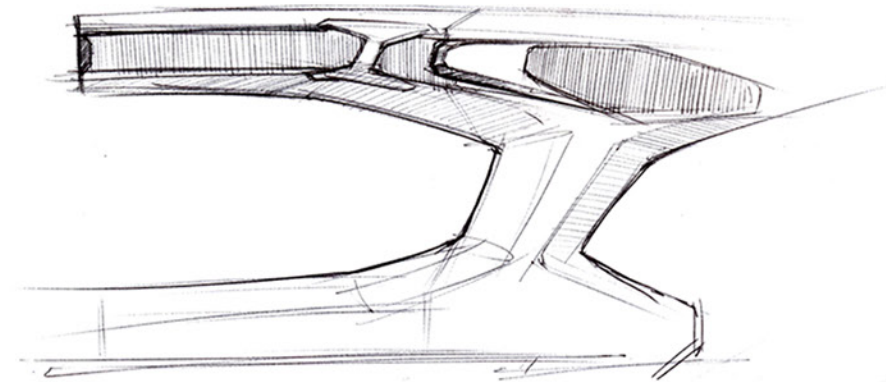


4945 mm

1671 mm

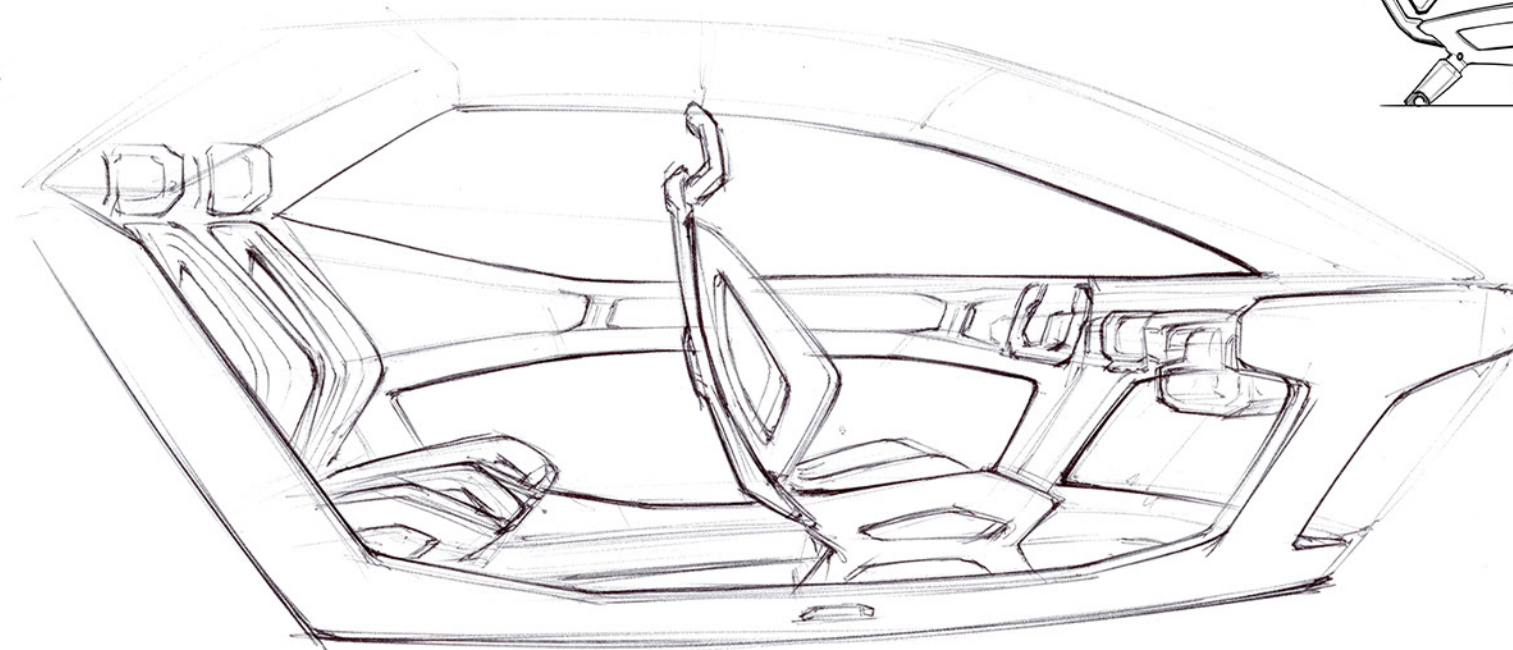
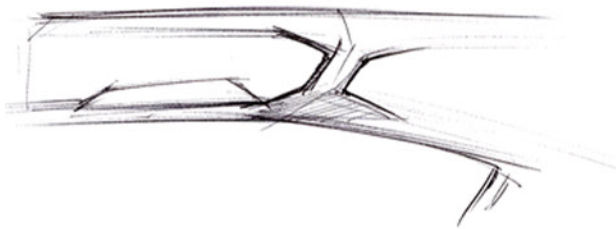


# RAM: CENTRAL AMERICA



Beam shape projects strength while allowing lower windshield and window area for better down vision on trail rides.

FLIP UP ARMREST  
(HIDE AWAY WHEN IN  
CENTER DRIVE POSITION)



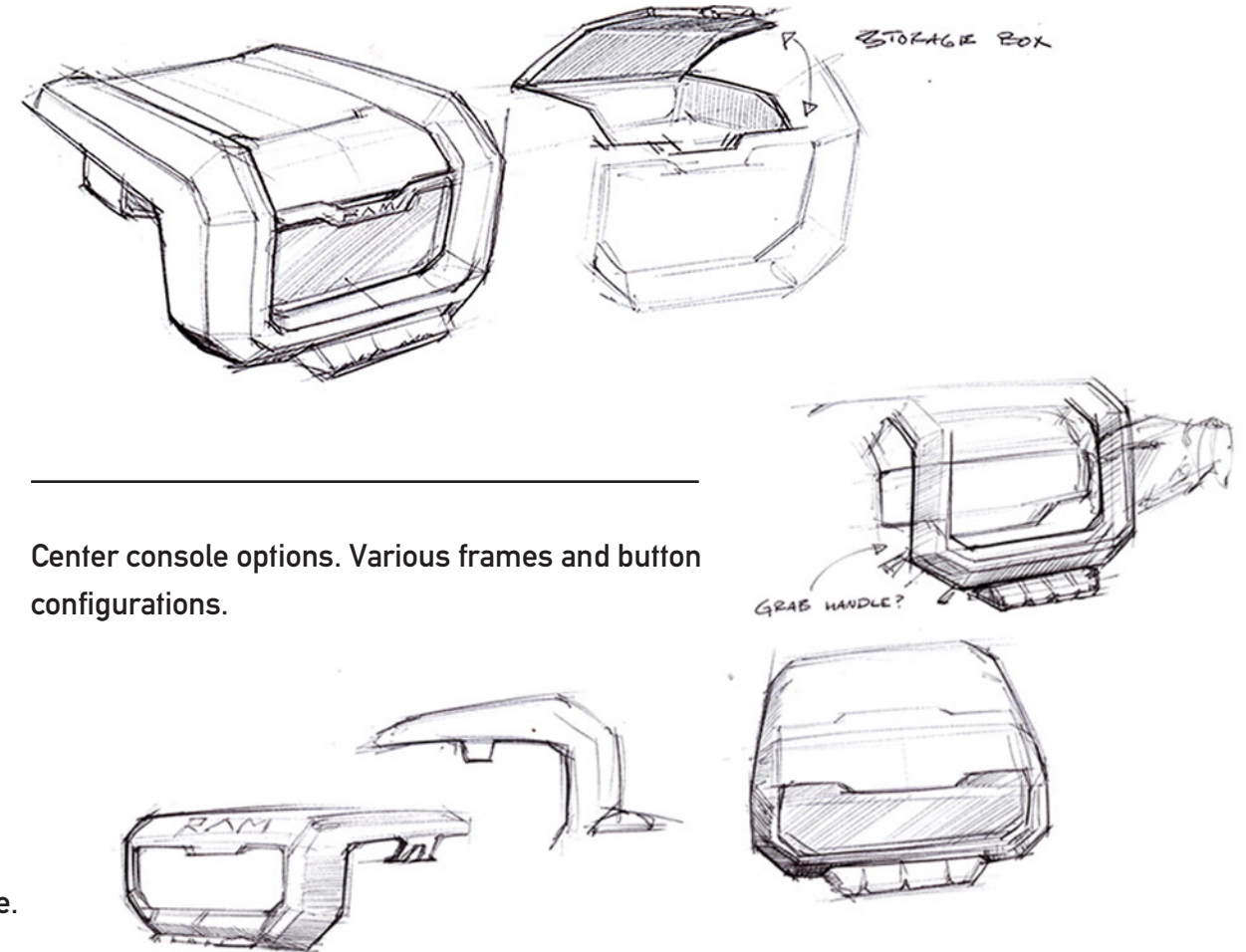
Mesh seat keeps occupant dry in humid climate.



# RAM: CENTRAL AMERICA



Steering wheel with thumb control throttle/brake.  
No pedal assembly makes tub easier to clean.

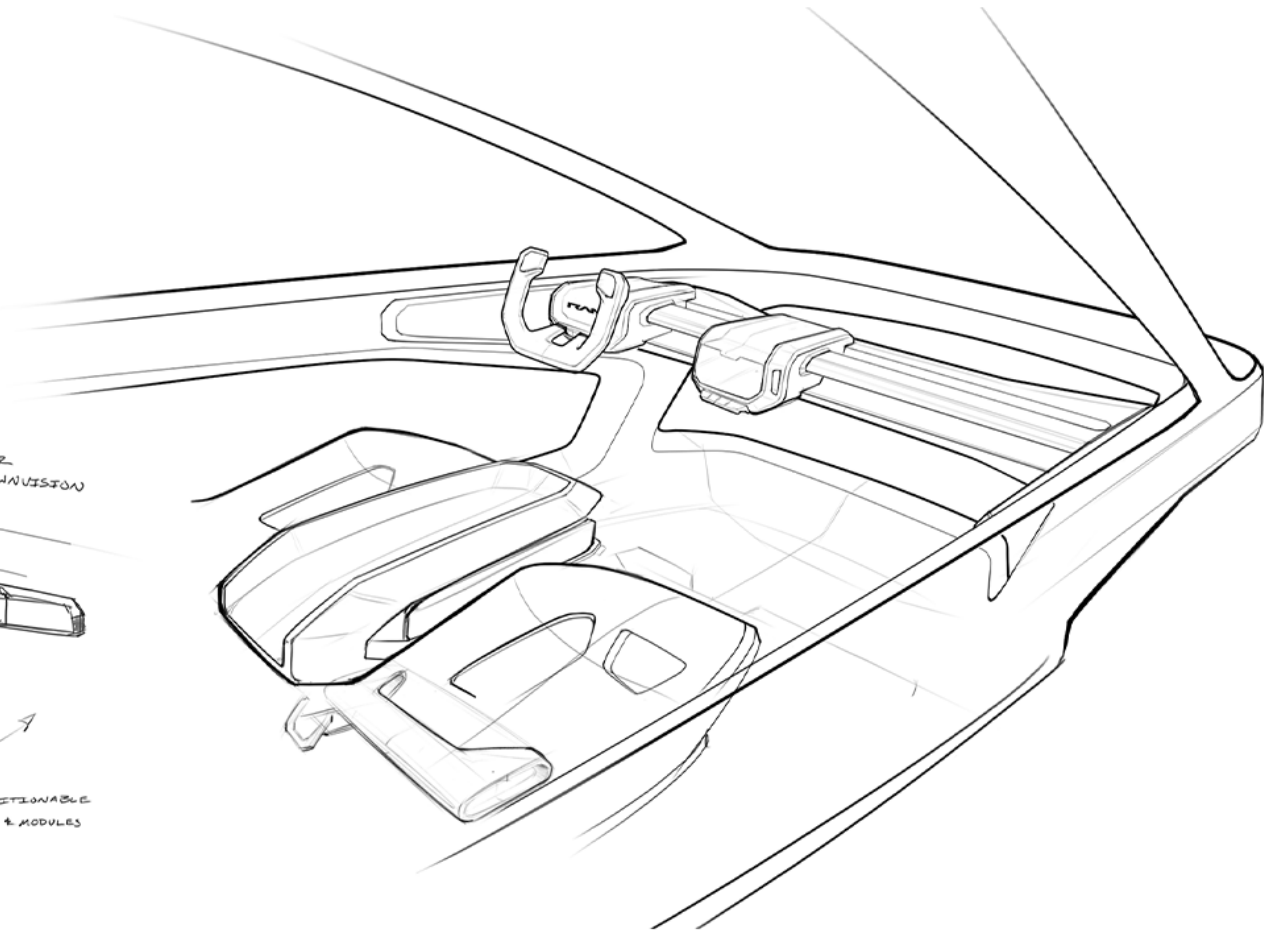
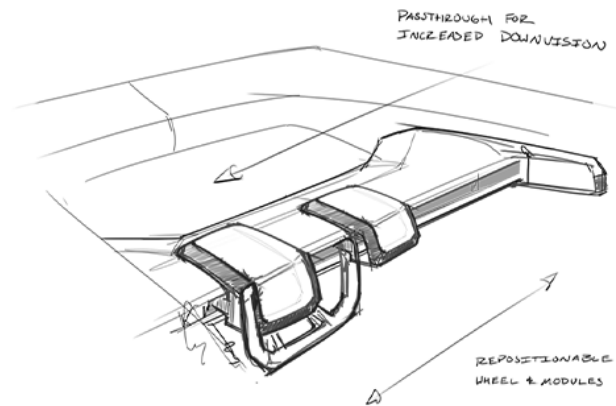
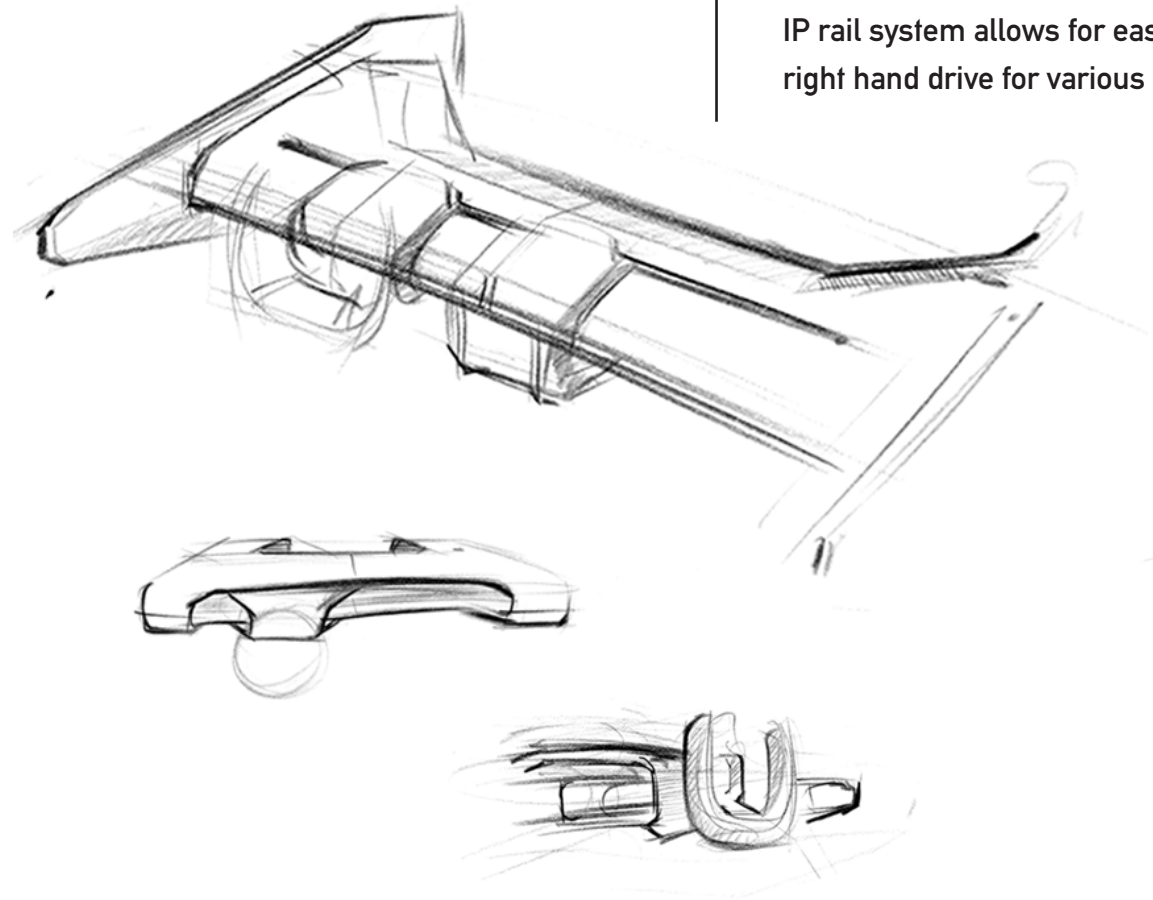


Center console options. Various frames and button configurations.



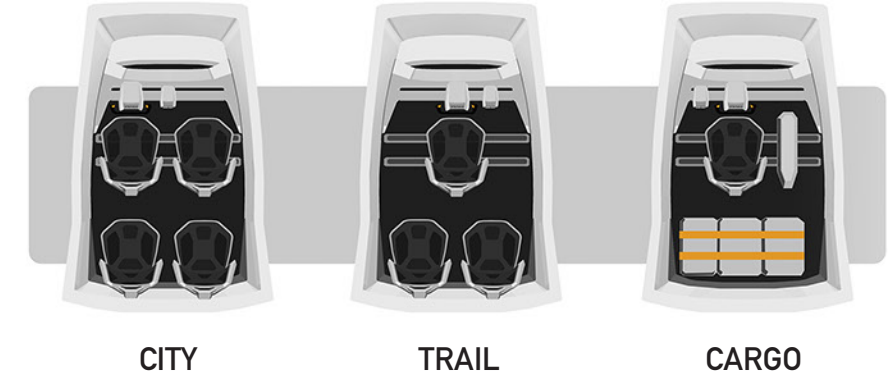
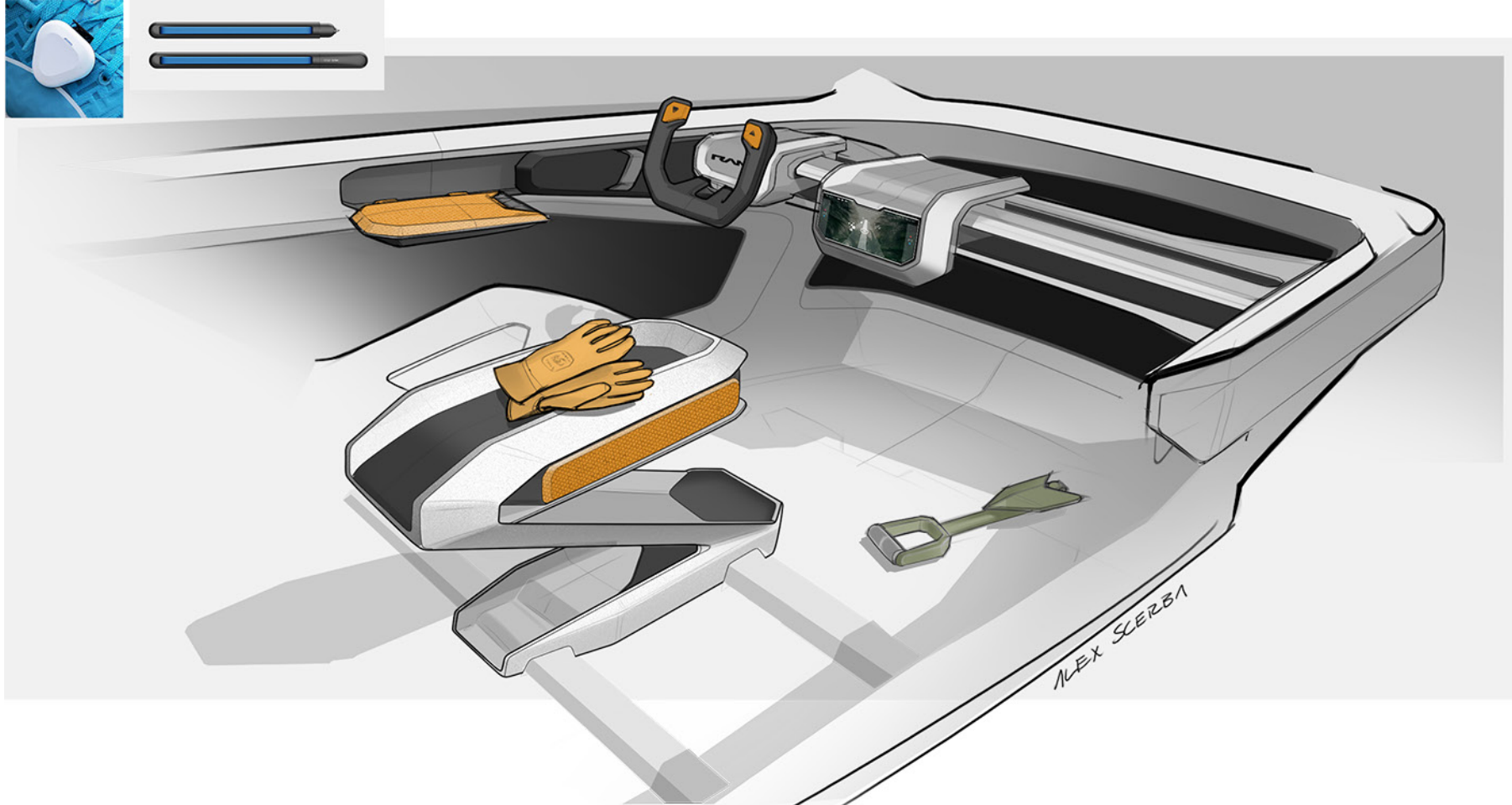


IP rail system allows for easy conversion to center and right hand drive for various regions.

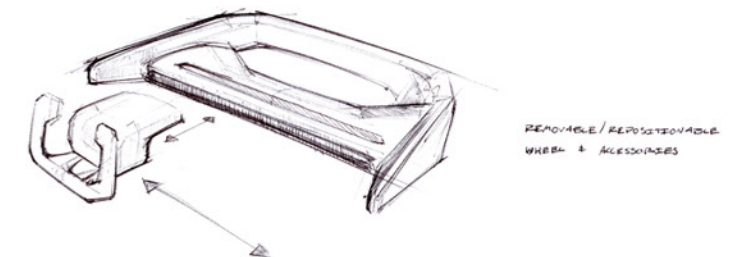




# RAM: CENTRAL AMERICA



Multiple configuration options through IP and seat rail system.



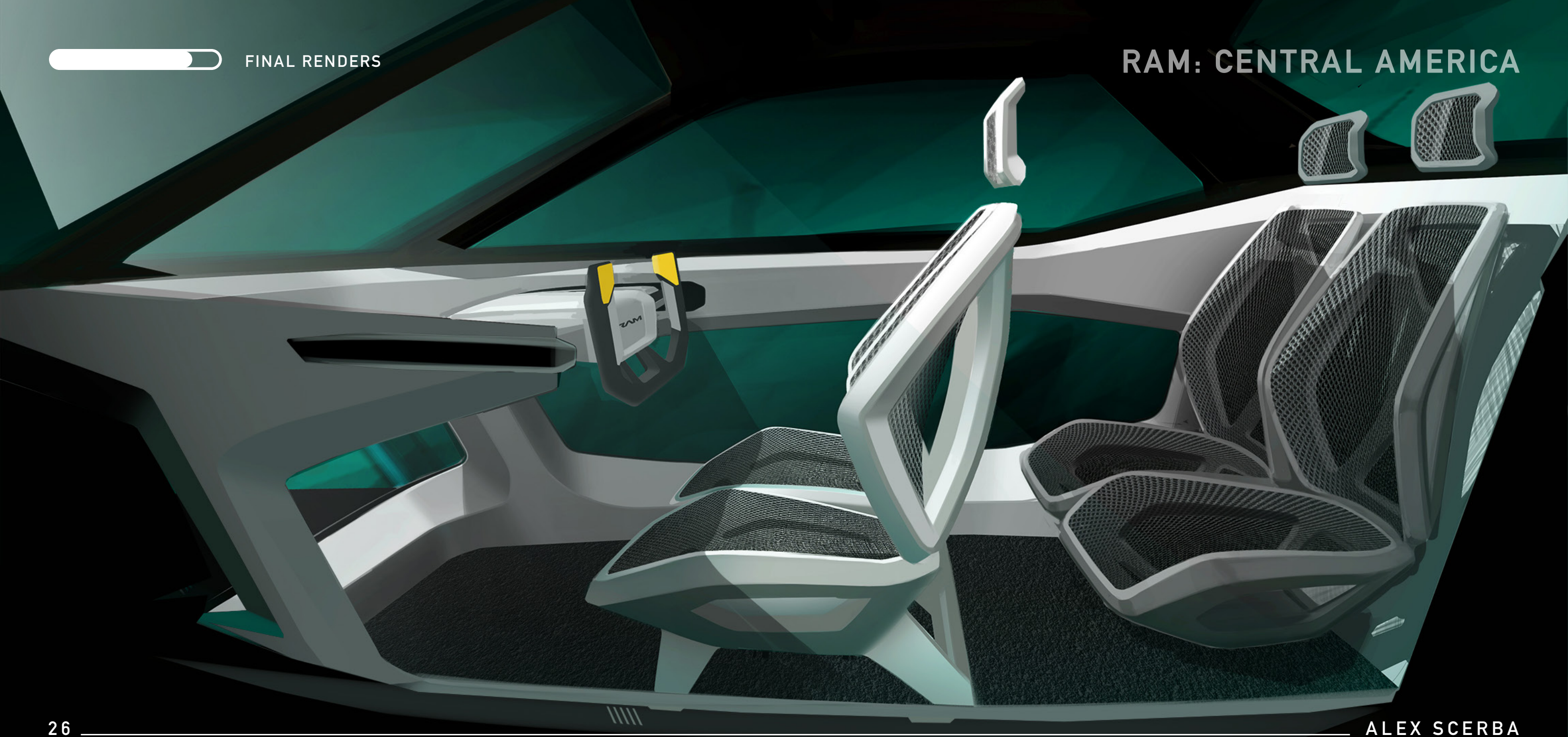






FINAL RENDERS

RAM: CENTRAL AMERICA



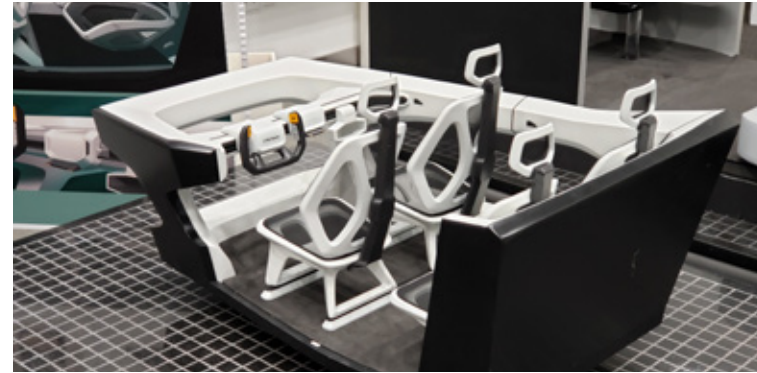




FINAL MODEL

## 1/5th Scale Model

Final interior model hand sculpted with clay.  
Finished with 3D printed parts and painted.

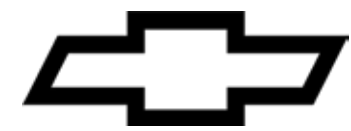


## RAM: CENTRAL AMERICA









# CHEVROLET VISION SS

b-segment two seat sports car for the year 2040.



## Anne

Age: 20

Income: \$80,000/y

Driving enthusiast and eco-conscious, Anne is looking for an affordable vehicle to keep up with her fast-paced lifestyle.

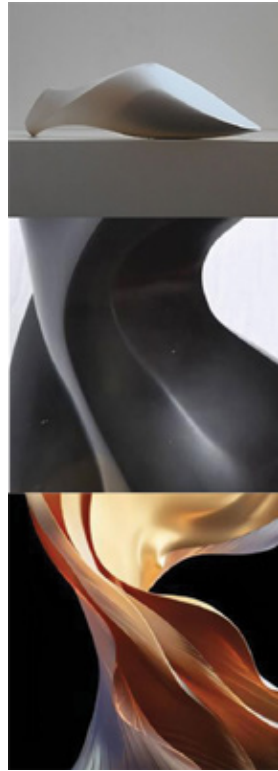
## PROBLEM

Few high performance cars in the affordable compact market.

## SOLUTION

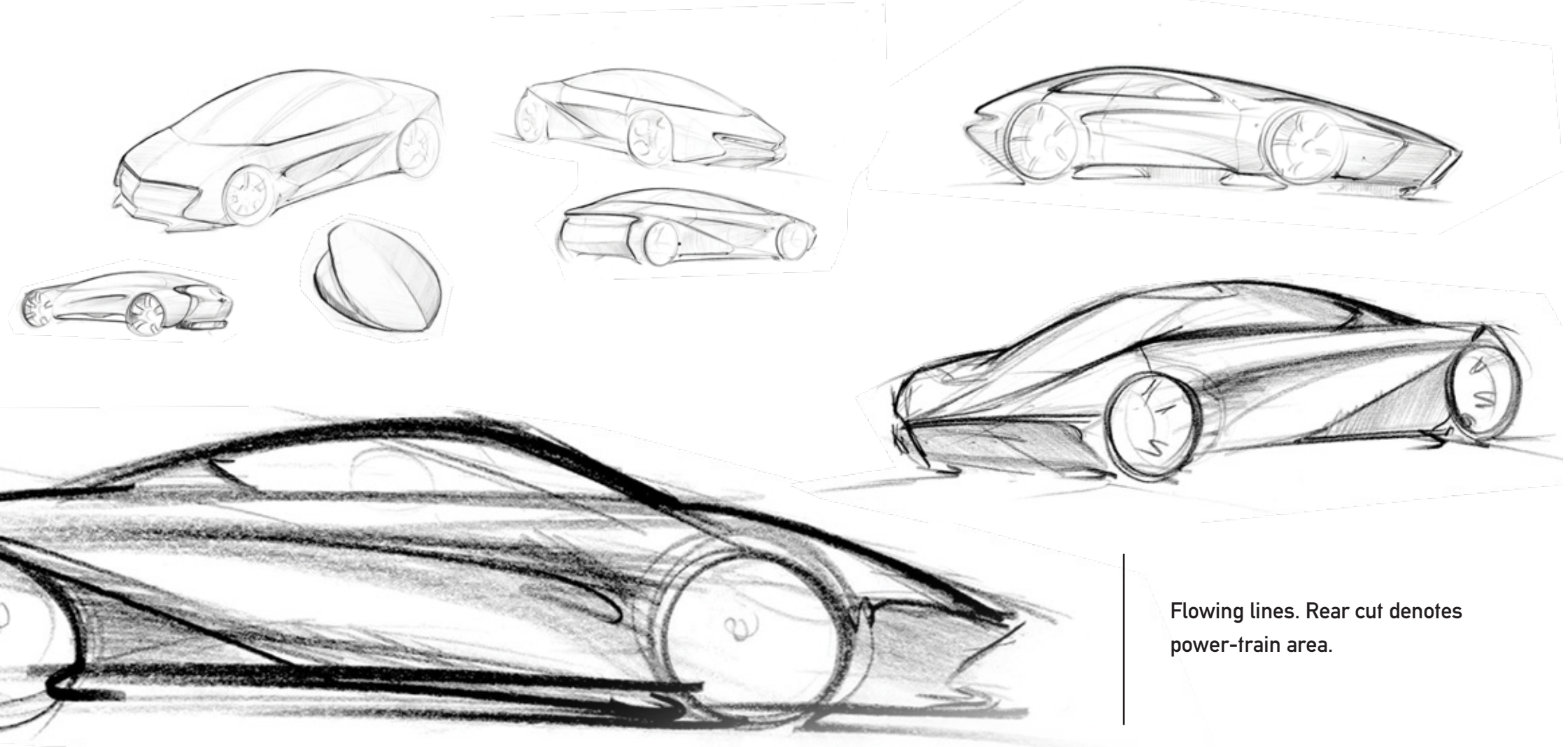
Pure, small electric sports car focused on driving experience.





## Flowing

Sculptural.  
Classic.  
Fast.



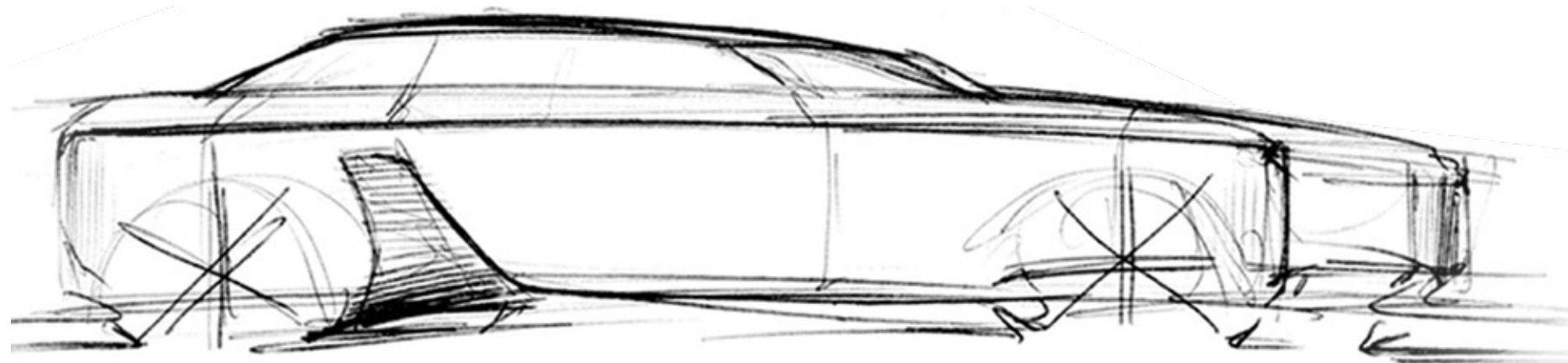
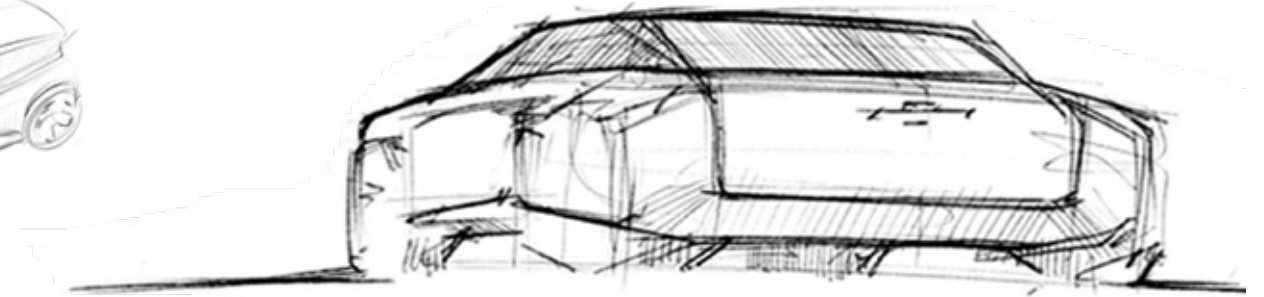
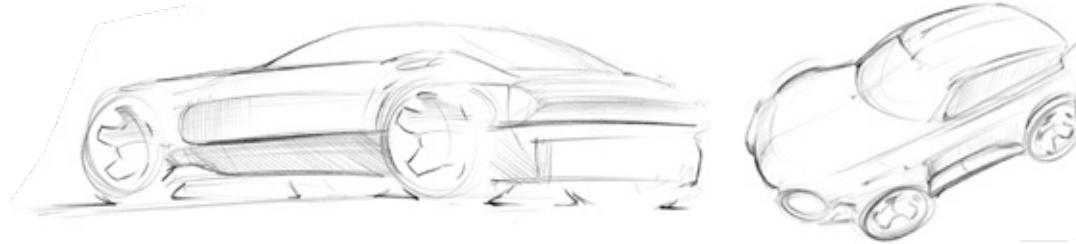
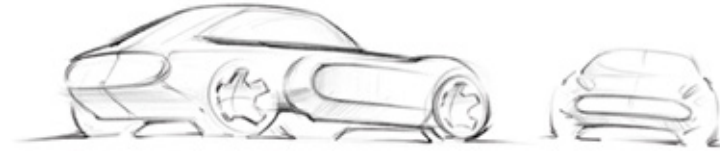
Flowing lines. Rear cut denotes power-train area.



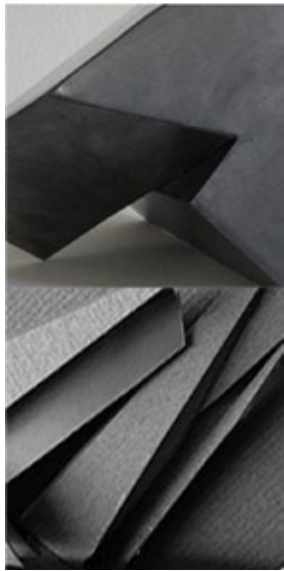


## Structured

Product inspired.  
Sturdy.  
Clean.

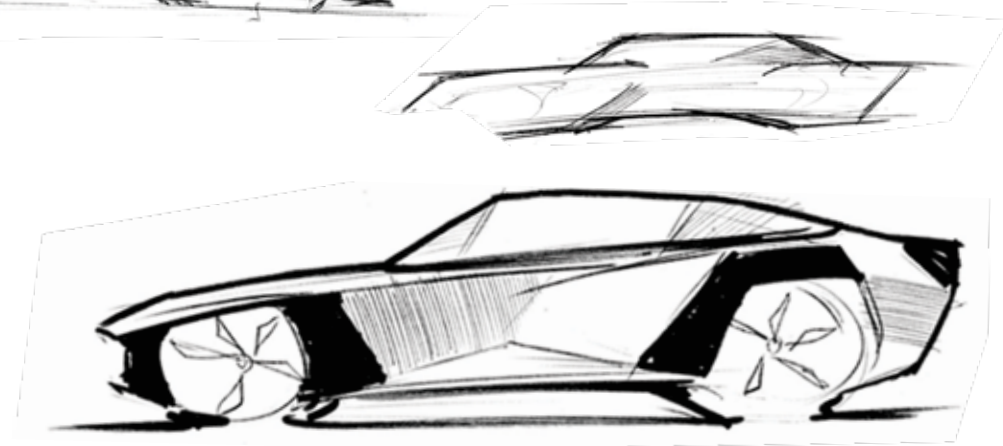
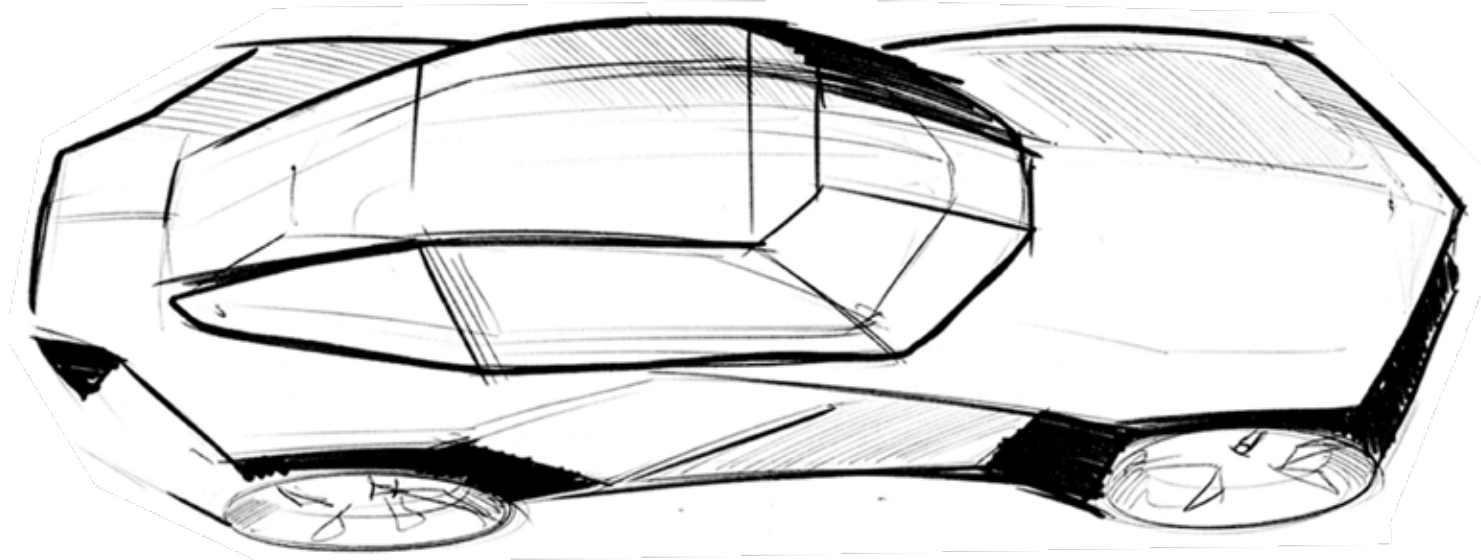
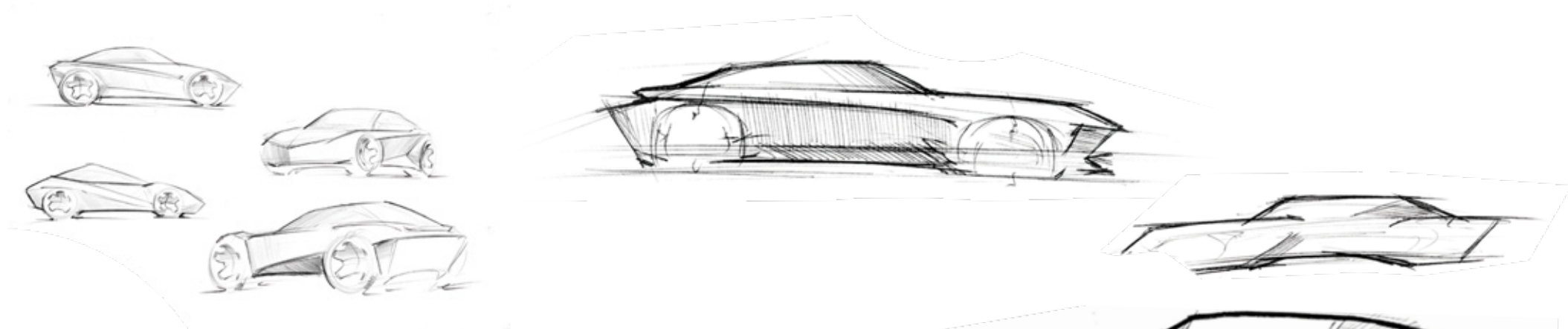


Robust feeling created through shear forms and squared wheel areas.



## Technical

Intersecting.  
Origami.  
Crisp.

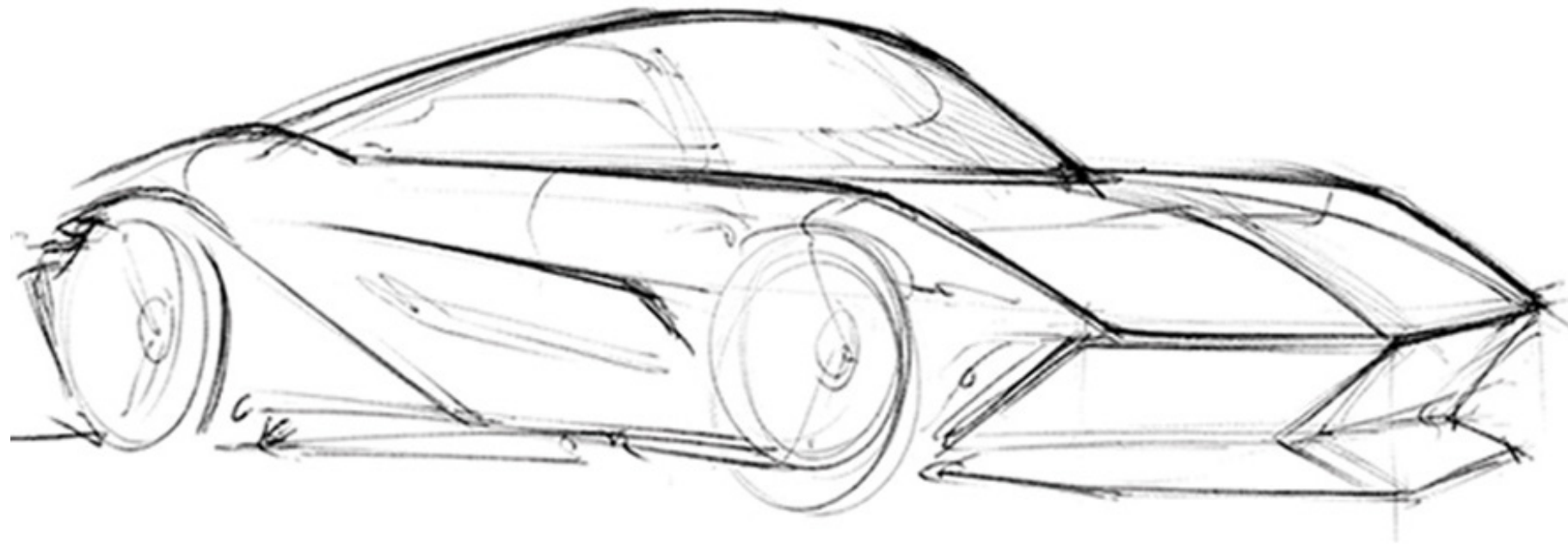
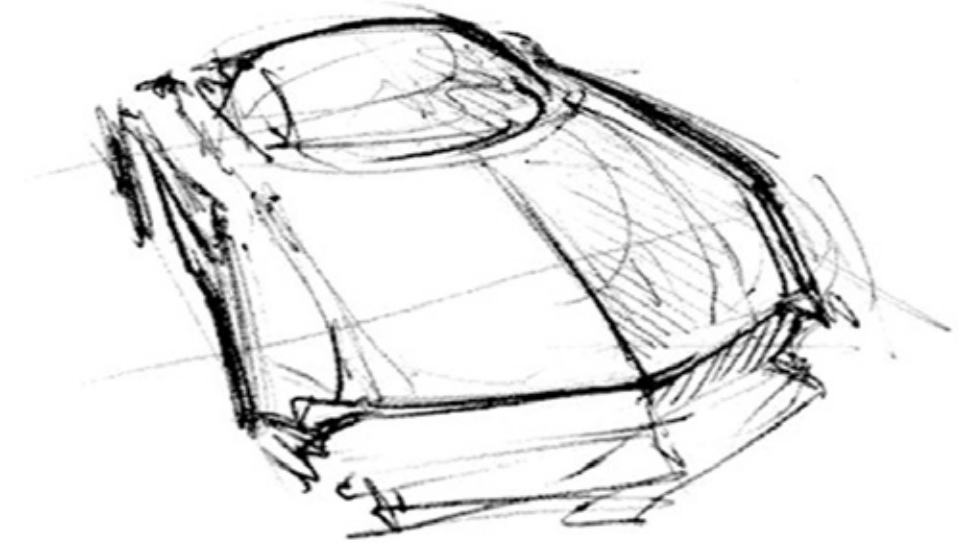
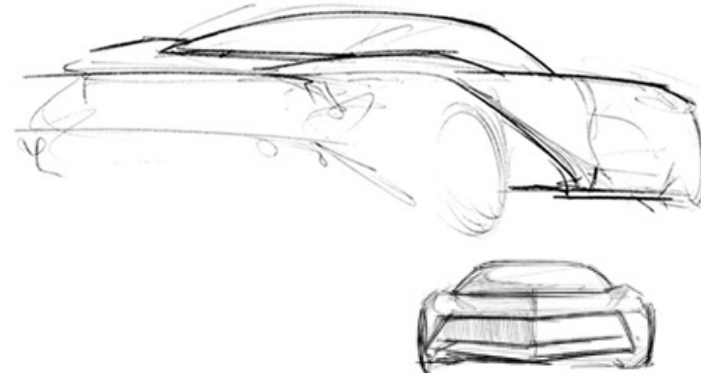


Intersecting, planar forms. Wedge shape.  
Classic proportion.



## Final Direction

Rear graphic ties into side cut and houses taillight along the upper lip of the body. Attempt at honest representation of B-Segment proportions.



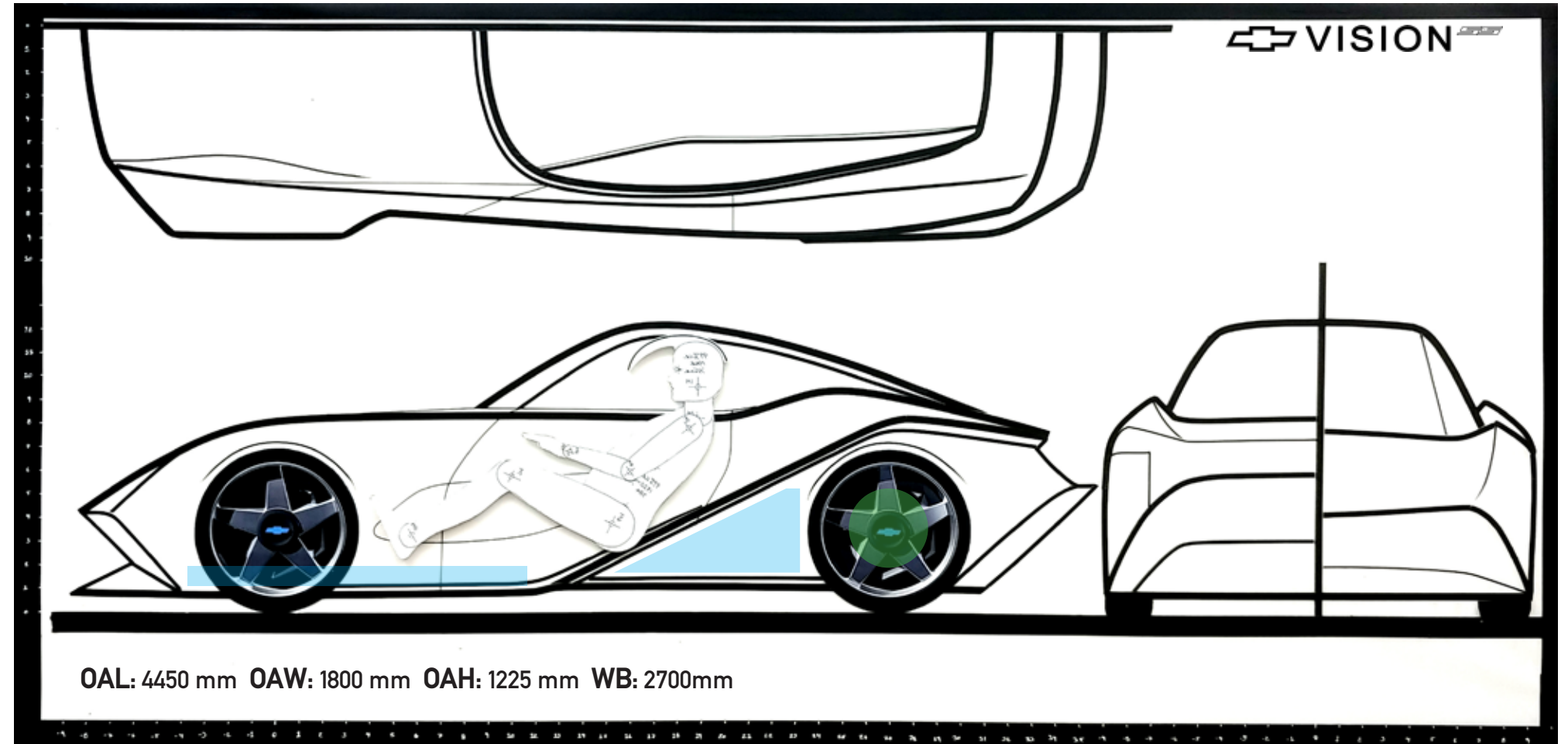
Battery drawer allows for quick changes on track.





# Package

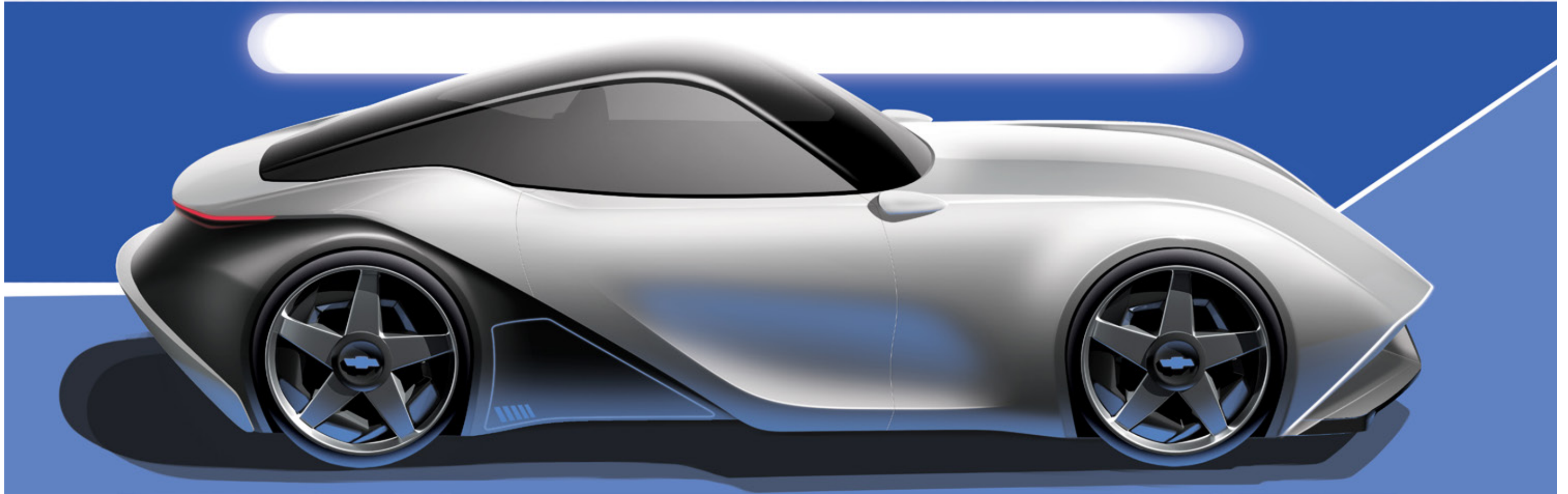
B-segment compact platform. Rear drive battery EV with swappable rear battery.



BATTERY

MOTOR

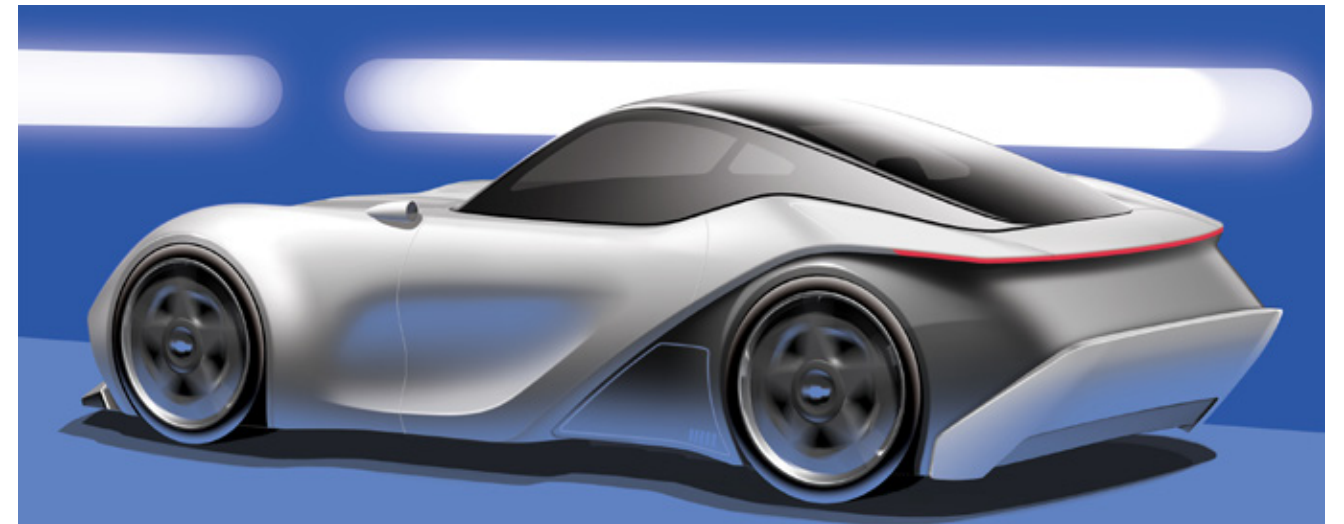
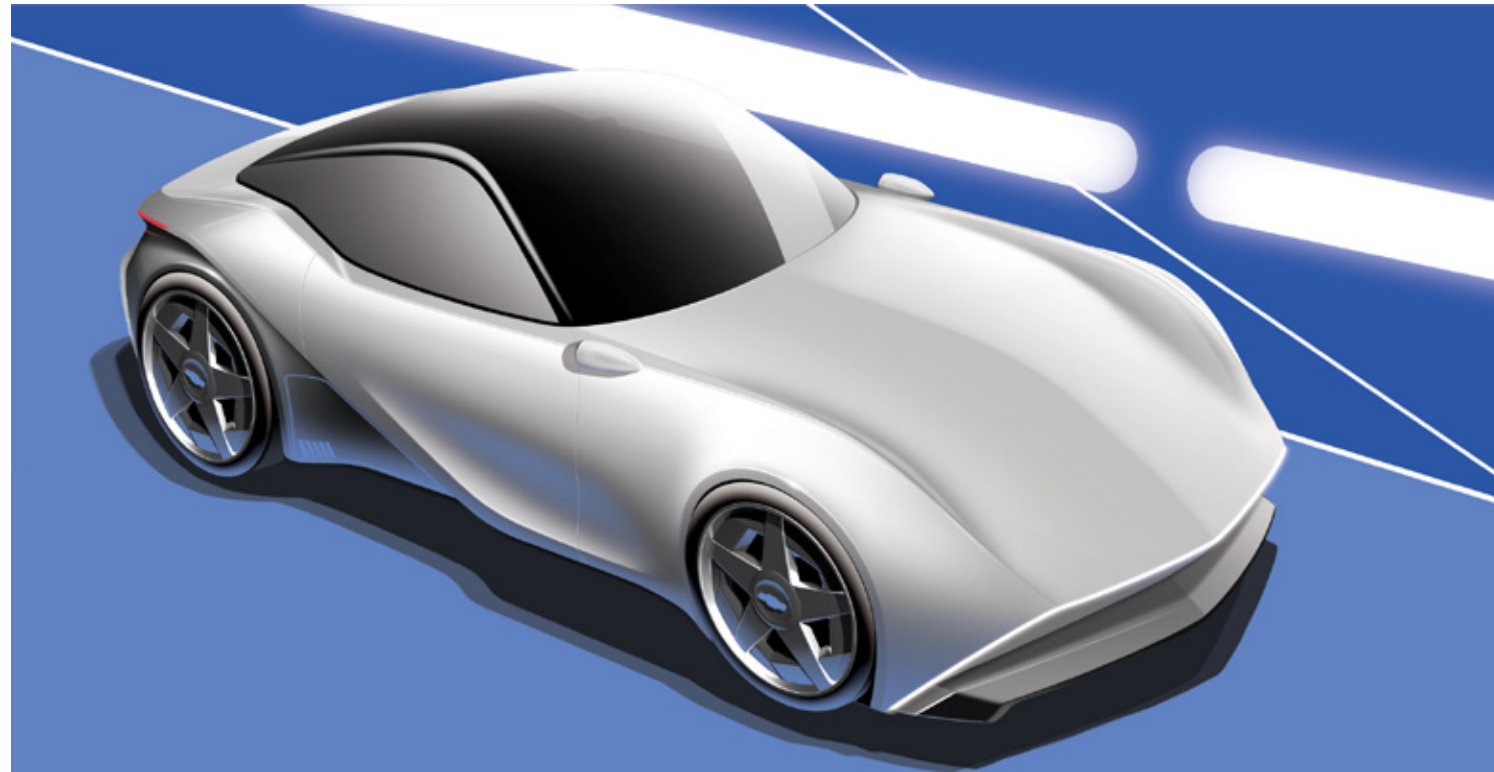






FINAL RENDERS

# CHEVROLET VISION SS





FINAL MODEL

# CHEVROLET VISION SS

## 1/5th Scale Model

Half model built next to mirror. Raw clay and DI-NOC.







FINAL MODEL

# CHEVROLET VISION SS





THANK YOU

visit <https://alexscerba.com> for more.