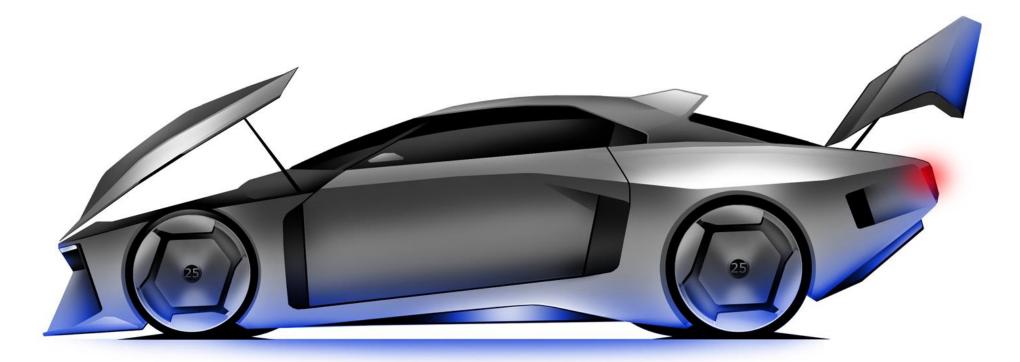
# 2022 THEISIS PROJECT





# Revival 25 Introduction

A coach built one off German premium brand, 2 box design inspired by the best hits of the late 70's and 80's.

Merged with a 21<sup>st</sup> Century powertrain and groundbreaking haptic feedback systems means this piece of automotive history and future can be used however you wish. VR Integrated tech allows for an immersive drive in any time zone you want.

# Project Aims

- AIM 1: Create a Connecting driving experience.
- AIM 2: Alleviate stress and anxiety with VR Tech.
- AIM **3**: Evoke nostalgia and emotions for the user.
- AIM 4: Design a fresh new face with classic influence.

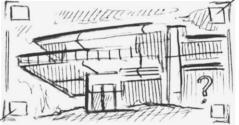




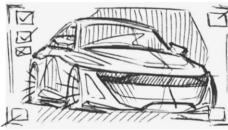
# Vehicle in Context

## Persona Key needs for the vehicle:

A compelling design which harks back to classic BMW products from the 70's & 80's. A tailor-made vehicle allowing full personalization. A drive train which will connect driver feel and evoke emotions created by classic / historic vehicles.



8AM – Waking up, weekend off which car to take out? (Poor Weather Conditions)



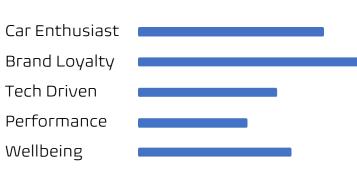
f which 9:30AM – Chooses her vehicle, sets driving ther mode. (Preheating the cabin + suspension changes)



1 PM – Al Assistant suggests a convoy through exhilarating driving roads.



3PM – Coffee stop before heading to an owner's club meet..



Attributes.

Career Driven

The vehicle will be used for special events an occasions in the user's life as well as being fully capable for daily tasks when required.



# 2D DESIGN DEVELOPMENT Benchmarks / Competitors



### BMW M6 COUPE

Transmission - 7 Speed Automatic O – 60 time – 3.7 seconds Body style – Coupe Driven Wheels – Rear Kerb Weight – 1850kg Wheelbase – 2851mm Length – 4898mm Width – 1899mm Height – 1375mm Wheel Size – 295 / 30 / R20





### MERCEDES E635 SALOON

Transmission - 9 Speed Automatic O - 60 time - 3.3 seconds Body style - Saloon Driven Wheels - All Kerb Weight - 1990kg Wheelbase – 2939mm Length – 4993mm Width – 2065mm Height – 1460mm Wheel Size – 295 / 30 / R20

603HP





#### AUDI RS5

Transmission - 8 Speed Automatic O - 60 time - 3.9 seconds Body style - Coupe Driven Wheels - All Kerb Weight - 1707kg

Wheelbase – 2766mm Length – 4723mm Width – 2029mm Height – 1387mm Wheel Size – 295 / 30 / R20

444HP





# 2D DESIGN DEVELOPMENT REVIVAL 25 Technical Data



## REVIVAL 25 DATA

Transmission - 7 Speed Automatic Body style - Coupe Driven Wheels - Rear + 4WD Kerb Weight - 1600kg

## Vehicle Data

Power (BHP) : 600 Number of Electric Engines : 2 Driven Wheels : 4 Transmission : Auto + Manual

## Battery Technical Data

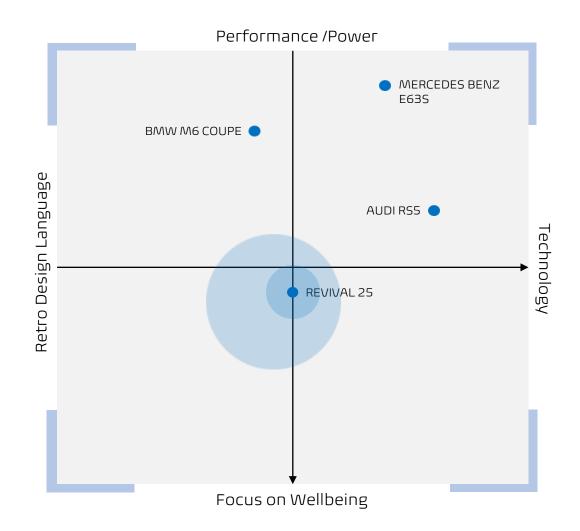
Battery Type : Lithium Average Energy Consumption : 230Wh/hr Charging Time : 30 minutes Battery Capacity : 100 Kwh. CO2 Emissions : None

## Performance Data

Top Speed : 195 mph Acceleration (0то62) : 2.8 seconds

## Dimensions

Body Style : Coupe No. of Doors : 2 No. of Seats : 4 Wheelbase : 2700mm Length : 4700mm Width : 1950mm Height : 1350mm





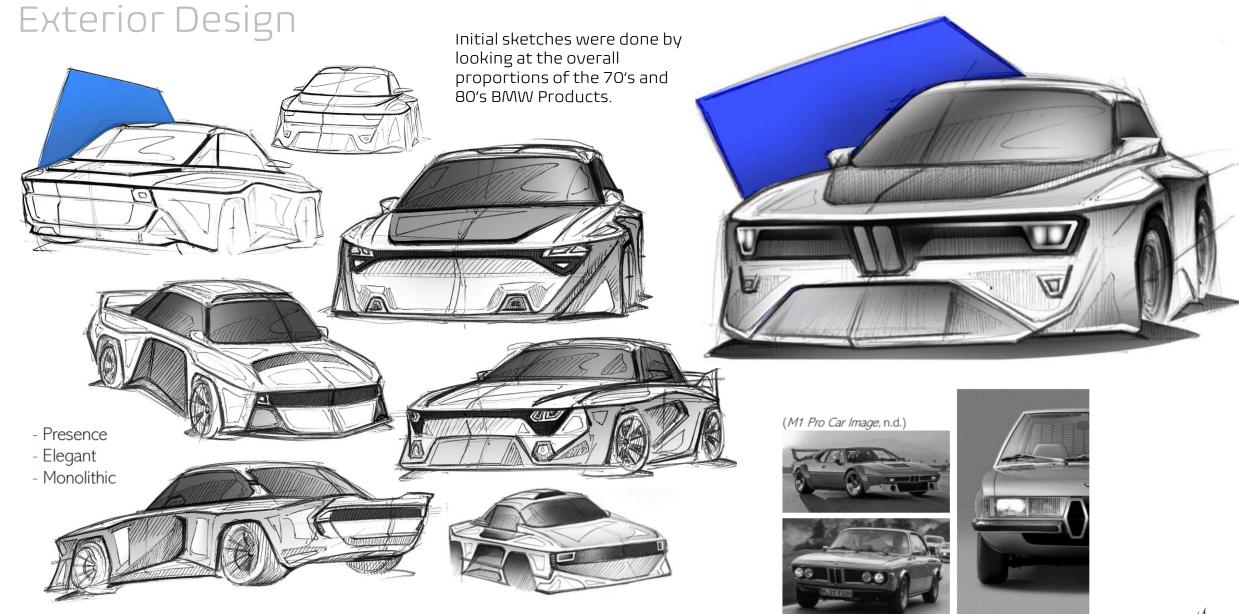
#### 2D DESIGN DEVELOPMENT

# Inspiration and Design Ques





#### 2D DESIGN DEVELOPMENT

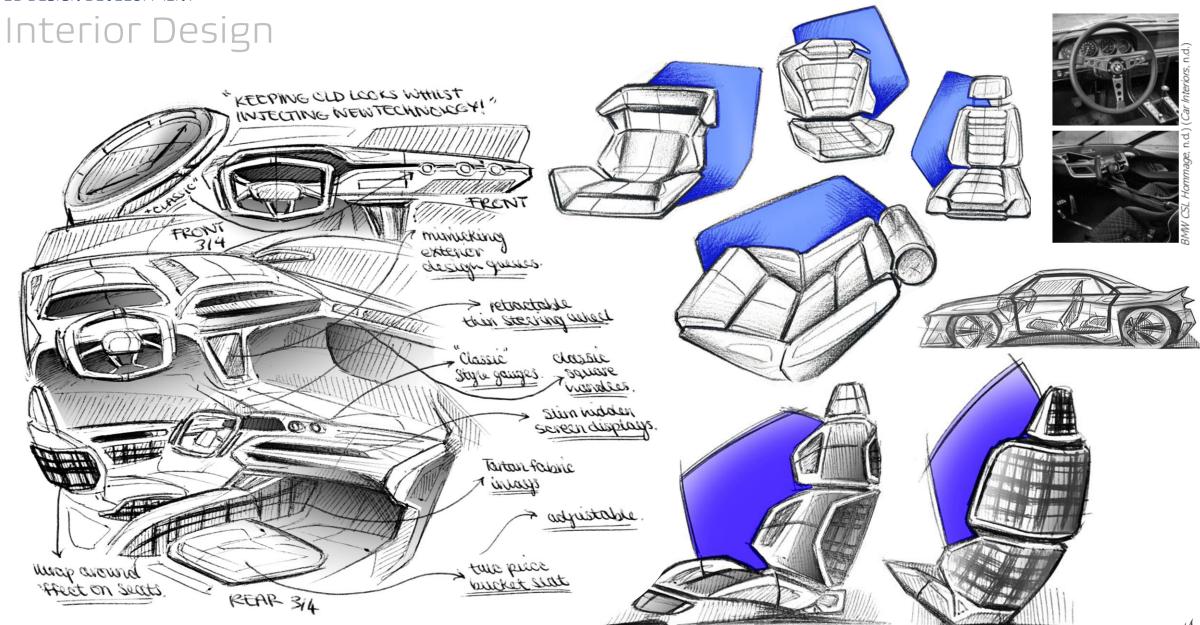


Libby Rose Marie Dakin

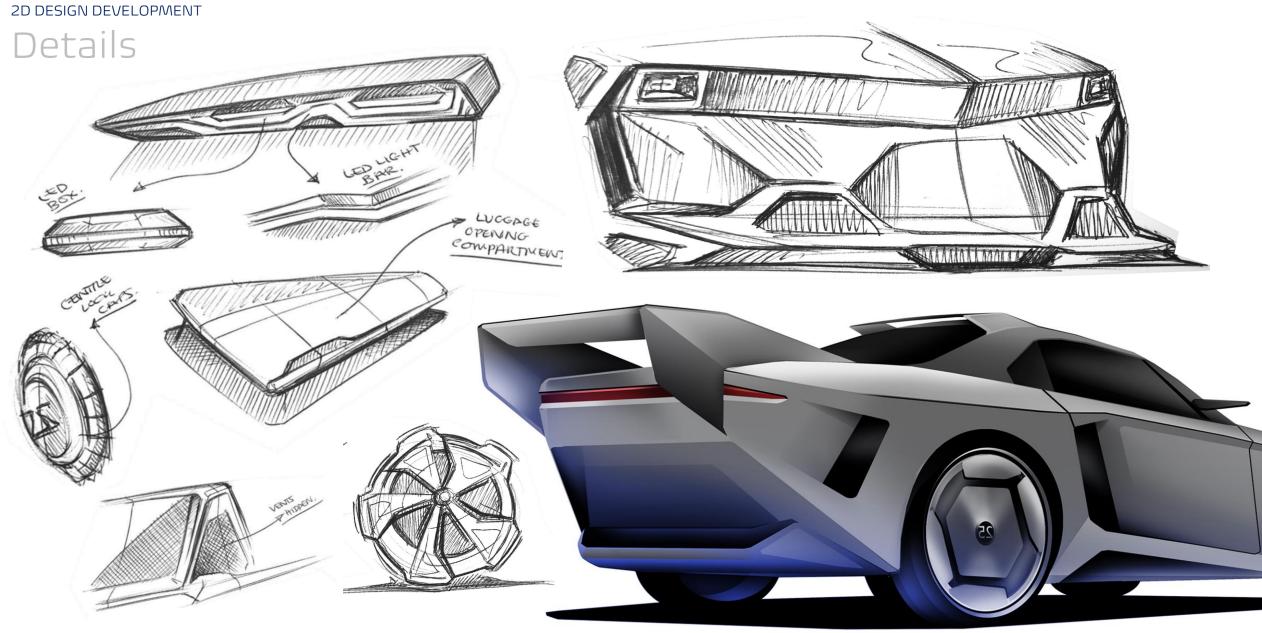
(BMW 3.0 CSL, n.d.) (BMW Recreates Classic Garmisch Concept Car, n.d.)



#### 2D DESIGN DEVELOPMENT

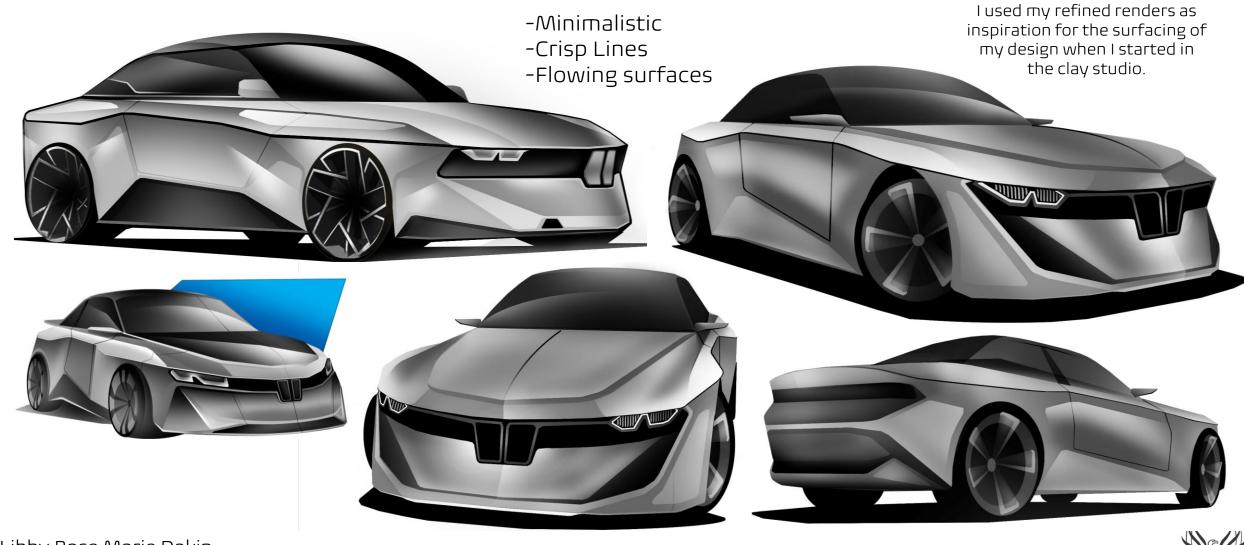








# Exterior Direction prior to 3D





# Interior Direction prior to 3D

This was the initial idea of the interior design I wanted for my FMP. I want a clean minimal design and a twist of retro classic fabrics.



### COLOUR MATERIAL FINISH

# Interior CMF

All Materials used have a focus on sustainability but also lightness to promote the attributes used in the historical classic vehicles which its inspired by.

## **Construction** Materials:



Aerospace Kevlar Composite

Aerospace grade Aluminum



Pinatex, V (Https://Whiteshanas-Asian Cam/Sample-Rage/Home-Products/, n.d.) Coconst, V (Cocation - Material Costs, n.d.) Raw Barriston, V (Raw Material od.)

## Libby Rose Marie Dakin







## Selected Interior Finishes:



Gloss Black Aluminum Finish Blue Pinatex Grey Pinatex Dark Grey Pinatex



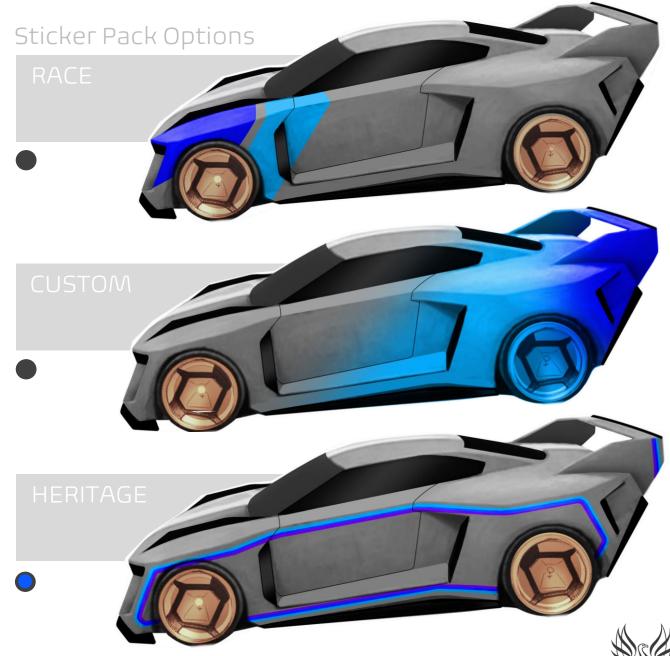
## COLOUR MATERIAL FINISH

# Exterior CMF

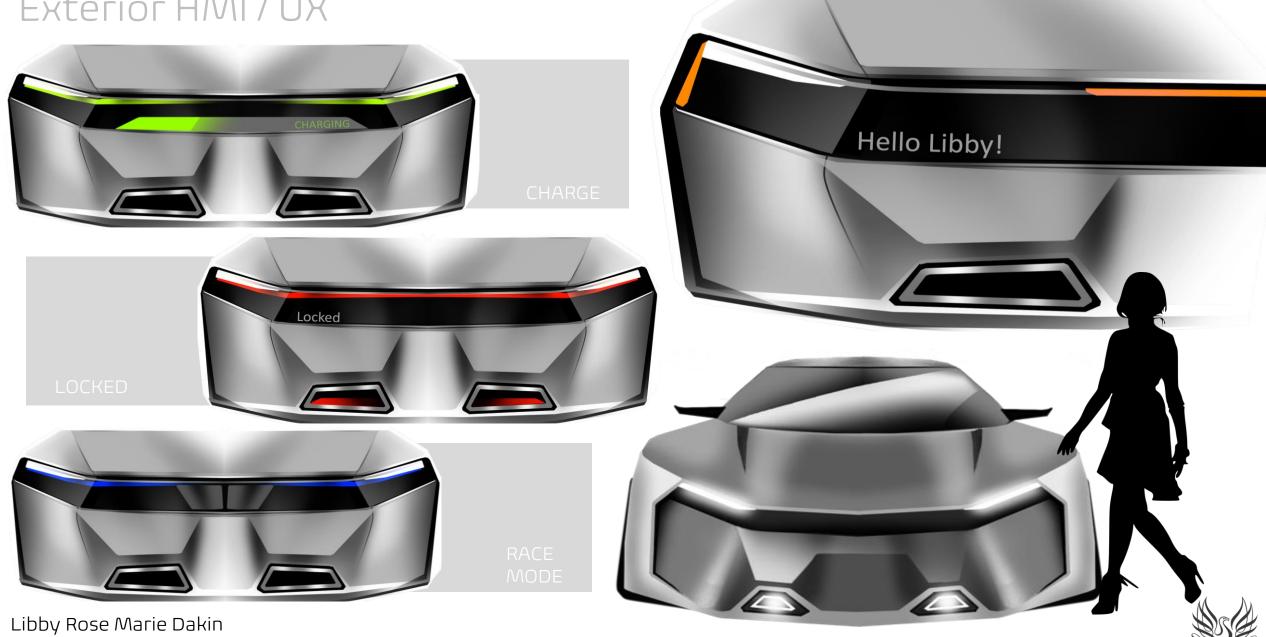
Selected Options: EXTERIOR PAINT – HERITAGE CHARCOAL STICKER PACK – HERITAGE PACK

All options are **fully customizable** to the user upon purchase as this vehicle is a fully **bespoke build** for a singular client. These CMF options show the most **relevant designs** and colors related to the cars which have inspired the design.





## HMI / USER EXPERIENCE Exterior HMI / UX

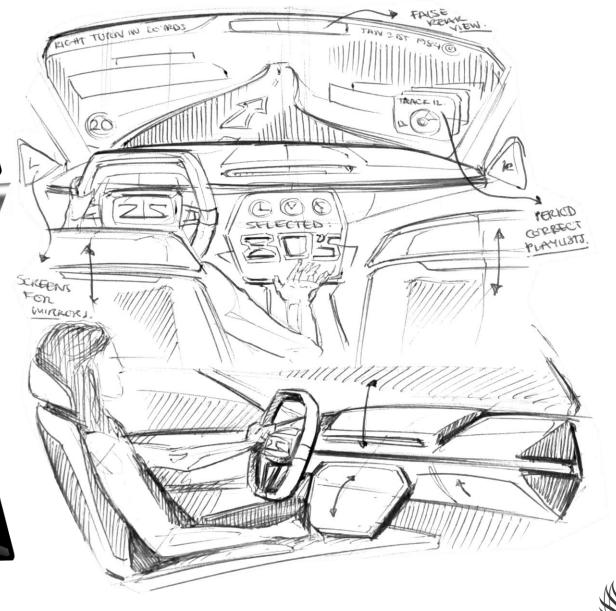


# HMI / USER EXPERIENCE

SATELLITE NAVIGATION

SAT NAV





# BD DEVELOPMENT - CLAY/GRAVITY SKETCH

Initial Armature Structure.

# WEEK1TO3

Developing the strength in volumes of the clay. Experimenting with the box flare layouts.



Libby Rose Marie Dakin Quat

Making the design more 'BMW' as similar era cars such as the Audi Quattro were starting to be reflected in the bottom side profile.



# BD DEVELOPMENT - CLAY/GRAVITY SKETCH

Sketching over the clay model images allowed me to see the details along side the new proportions of the vehicle. Extending the roofline for a more dynamic side view.

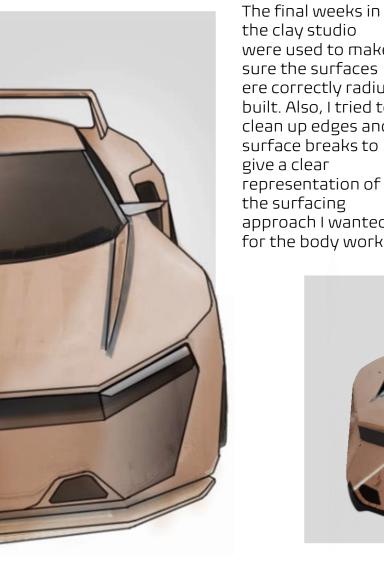
# WEEK 3 TO 5

Angled side lines to create a nose forward stance to the vehicle.

Adding form board wings and skirts to get a rough idea of volumes before the bodywork was finalized.



# 3D DEVELOPMENT - CLAY / GRAVITY SKETCH Exterior Development



the clay studio were used to make sure the surfaces ere correctly radius built. Also, I tried to clean up edges and surface breaks to give a clear representation of the surfacing approach I wanted for the body work.







### 3D DEVELOPMENT – PHOTOSHOP RENDERS

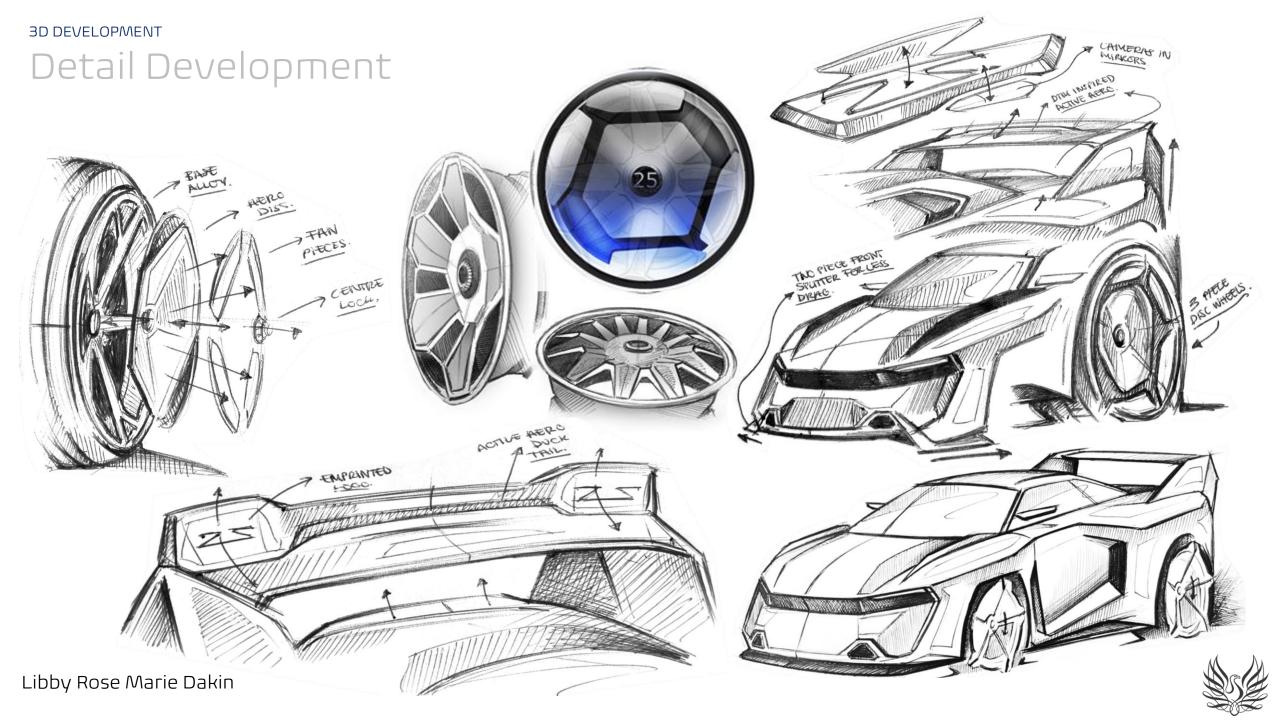
# Exterior Development

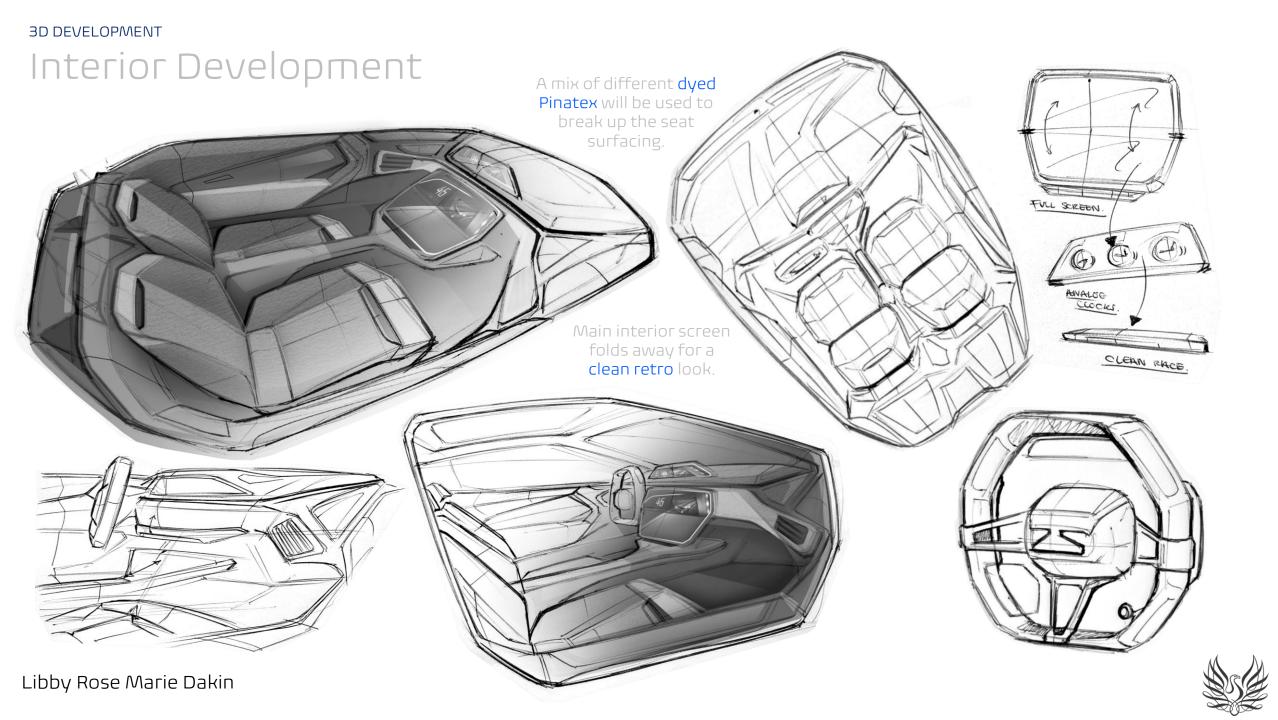


### 3D DEVELOPMENT – PHOTOSHOP RENDERS

# Exterior Development





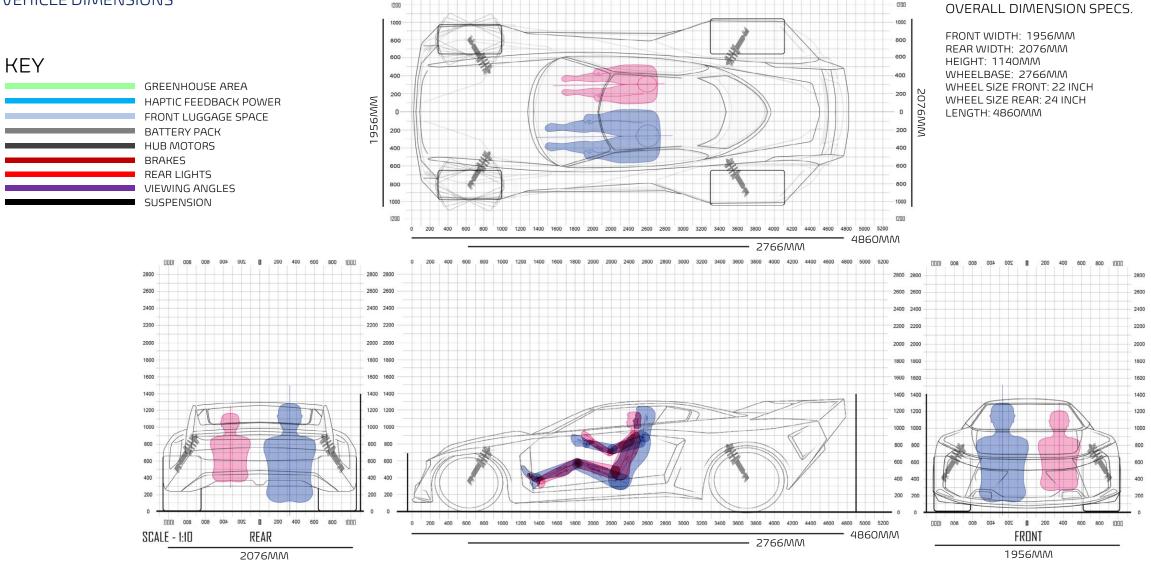


### VEHICLE PACKAGE / LAYOUT

# Final Package Layout

1200

### VEHICLE DIMENSIONS



3800 4000 4200

4400 4600 4800

5000

1200



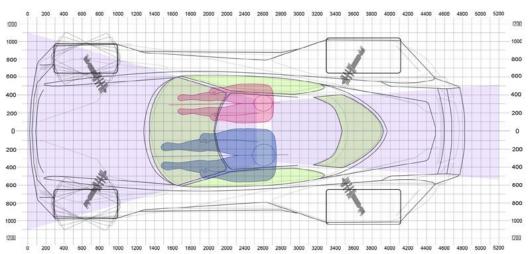
#### VEHICLE PACKAGE / LAYOUT

# Final Package Layout

FORMAT - 3<sup>rd</sup> ANGLE PROJECTION

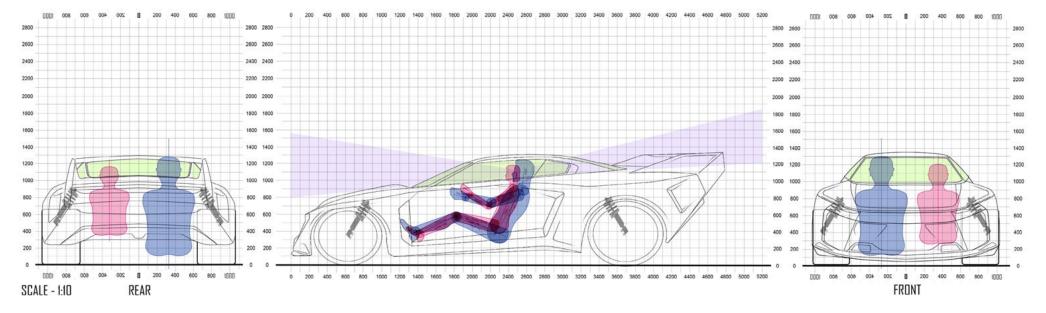
## KEY





#### OVERALL DIMENSION SPECS.

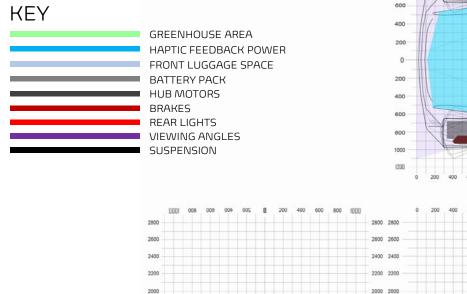
FRONT WIDTH: 1956MM REAR WIDTH: 2076MM HEIGHT: 1140MM WHEELBASE: 2766MM WHEEL SIZE FRONT: 22 INCH WHEEL SIZE REAR: 24 INCH LENGTH: 4860MM

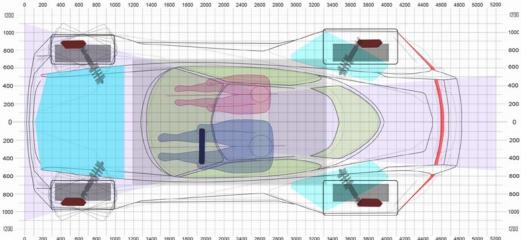


#### VEHICLE PACKAGE / LAYOUT

# Final Package Layout

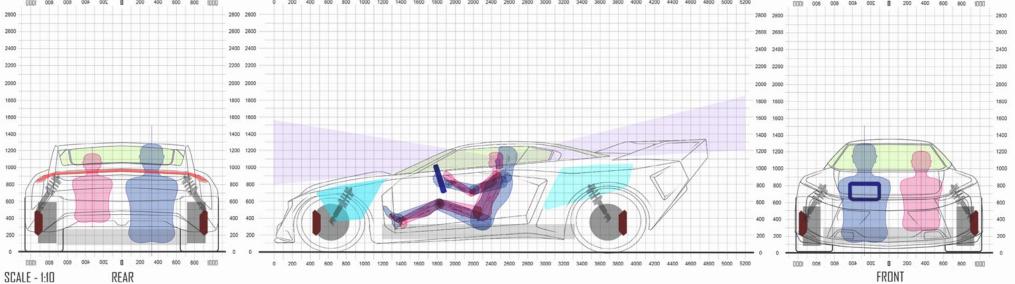
# VEHICLE OCCUPANTS AND POWERTRAIN





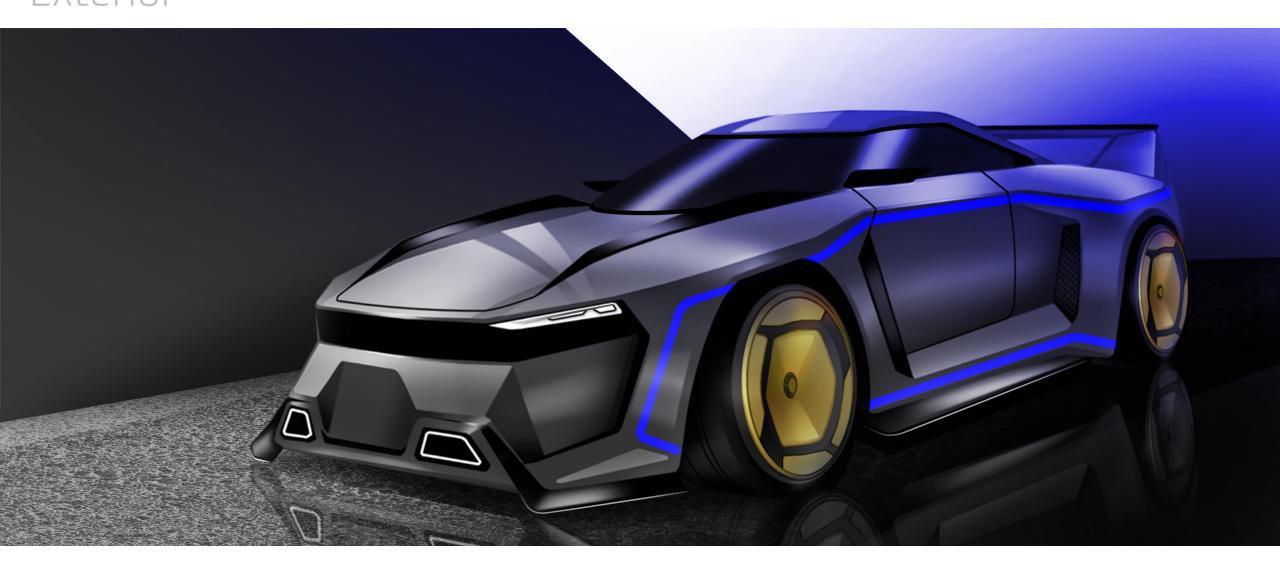
#### OVERALL DIMENSION SPECS.

FRONT WIDTH: 1956MM REAR WIDTH: 2076MM HEIGHT: 1140MM WHEELBASE: 2766MM WHEEL SIZE FRONT: 22 INCH WHEEL SIZE REAR: 24 INCH LENGTH: 4860MM



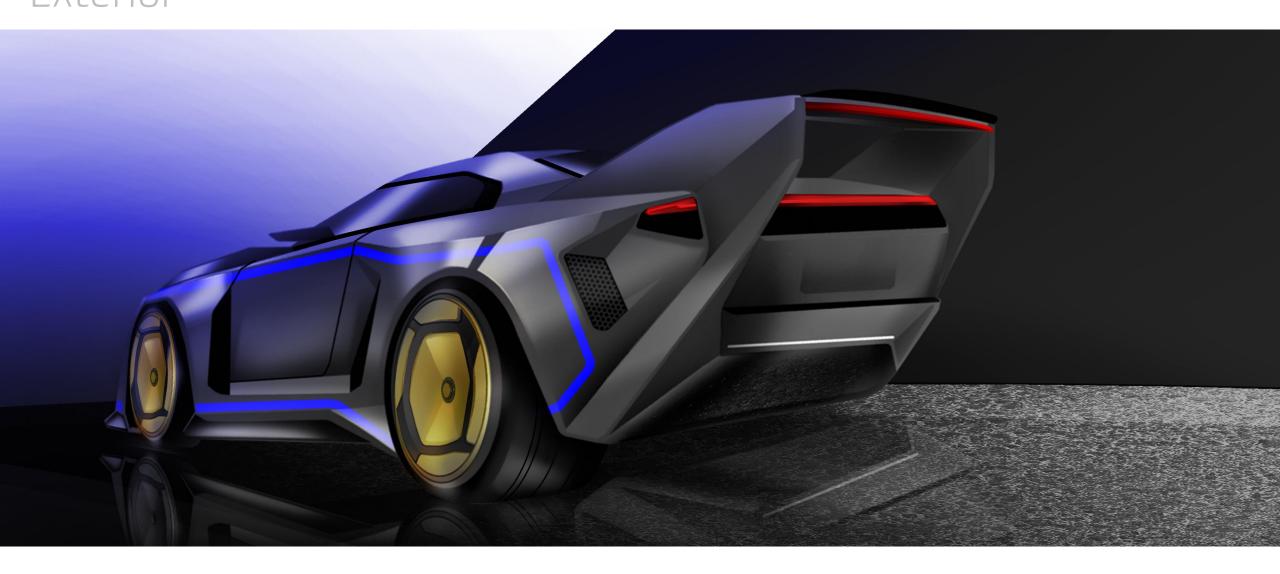






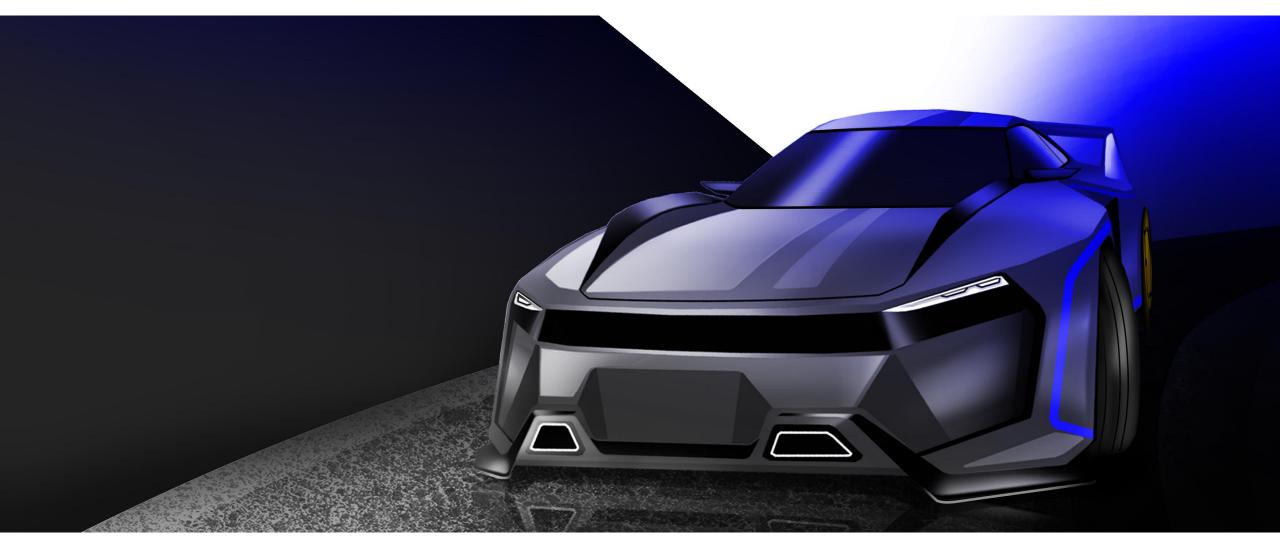








Exterior





# Interior



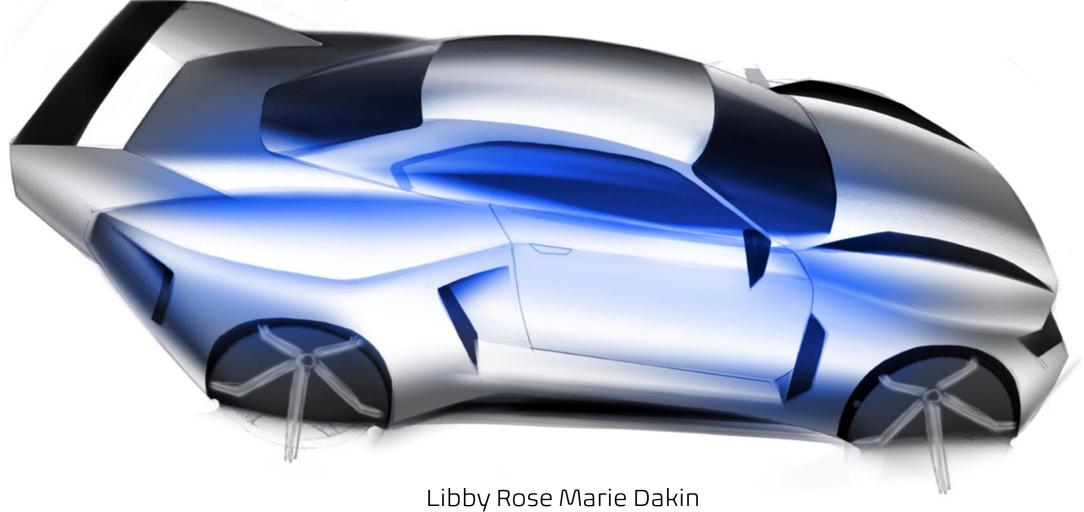


# FINAL PRESENTATION IMAGES





# THANKYOU!







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