PORTFOLIO 2024 JOJI ISAAC ABRAHAM

Hello, am Joji,

A Digital Designer, working at Aspireli, a Dubai based Design & Technology Studio focusing on innovative Automotive Part Design. Before Aspireli, I workied as a Digital Modelling Consultant - Specialist, for FORD - UK, on consultancy through Contechs UK and Satven India. Prior to this role, I worked as a Lead Digital Designer at Tata Motors Global Design Team, Pune. I always look into the new realms of design. I am open for opportunities to utilize my skills & Competencies, & to contribute as a Lead Digital Designer.

TRAVELLER SPREAD SMILE WARM PEACE LOVER **EXPLORE LIFE** FOODIE

Regards, JOJI ISAAC ABRAHAM



I love design, technology & trends. However, I always find time for journeys which rejuvenates me and





EXPERIENCE











on consultancy through Contechs UK and Satven India

FORD - UK

TATA MOTORS DESIGN DASSAULT SYSTEMES

Nov 2023 - Present

ASPIRELI - DUBAI

March 2023 - Nov 2023

Sep 2016 - March 2023

Feb 2015 - Aug 2016

Jul 2013 - Dec 2013



Digital Designer - Automotive Surfacing Nov 2023 - Present

- Analyzed automotive design trends, market dynamics, customer expectations to identify opportunities for product innovation.
- Created and refined surface models for automotive designs, ensuring alignment with brand identity and market demands.
- Collaborated with cross-functional teams to translate conceptual designs into tangible products, meeting project deadlines and quality standards.
- Leveraged expertise in Alias Nurbs, SubD, Blender & Unreal Engine to develop high-quality renderings and surface models.
- Contributed to brainstorming sessions and design reviews, offering creative insights and solutions to design challenges.
- Stayed updated on industry developments and emerging technologies to drive continuous improvement and innovation within the design process.
- Received recognition for contributing to a positive team culture and dynamic work environment.
- Established new Design process, process work flow, cross functional team handover standards, and design standards along with the design team while leveraging my Automotive OEM and consulting experience from Germany, UK, USA and India and helped setup a high energy and hyper efficient studio environment.





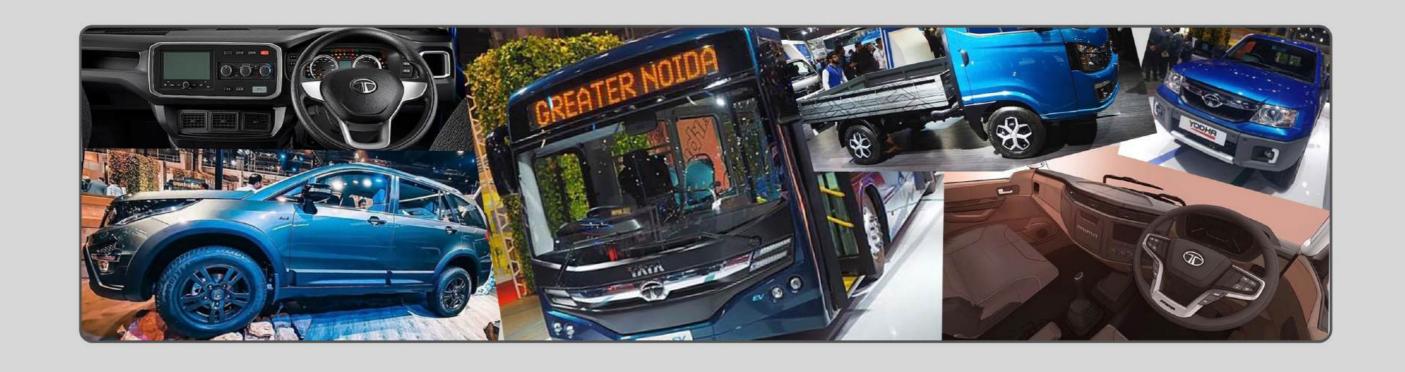




FORD UK, On Consultancy through Contechs UK & Satven India
Digital Modelling Consultant - Specialist Mar 2023 - Nov 2023

Collaborated with Contechs UK Technical team, FORD UK Designers, Clay Modellers, Studio Engineering and Design Managers, accommodated their requirements and supported High Quality Surfacing based on design Gates K2 to K6 in the development of FORD UK & FORD North-America Projects.

- Concept to Class A Surfacing.
- Adapted client requirements and tailored a workflow for them



TATA MOTORS DESIGN

Lead - CAS Modelling, Digital Design Senior Manager - Design Centre Digital Designer Aug 2018 - Mar 2023 Dec 2017 - Jul 2018 Sep 2016 - Nov 2017





INDIAN AUTO EXPO 2023
INTERIOR SURFACING for production (concept to Production)
To be launched

Tata SIERRA: Interior FATC and Centre Console, Seats, Door Trim





Tata Hexa Safari Edition: Grille & Exterior Cladding



Tata Yodha: Exterior front bumper & fender

Tata EV Bus: Exterior front facia

GREATER NE



TATA MOTORS DESIGN

INDIAN AUTO EXPO 2020 EXTERIOR SURFACING





INDIAN AUTO EXPO 2020 INTERIOR SURFACING

Tata Winger: Interior IP complete, Door cards & Seatback



TATA MOTORS DESIGN

INDIAN AUTO EXPO 2020 INTERIOR SURFACING











Tata Intra: Dual tone wheel cover, Mascot & HVAC Control Decals

Tata Ultra AMT Concept 2018: Amt Console & the Mascot



TATA MOTORS DESIGN

INDIAN AUTO EXPO 2018

EXTERIOR & INTERIOR SURFACING

Tata Magic EV 2018 : Wheel Cover





Digital Designer - Permanent Dec 2015 - Aug 2016 Digital Designer - Contract Feb 2015 - Dec 2015

Dassault Systèmes - 3DEXCITE, Pune, India Formerly known as 3DPLM Global Services (3DGS)

Projects:

- Worked on the content preparation & Visualization for an International Automotive OEM's entire product range for Europe.
- Worked on the content preparation & Visualization for two other International Automotive OEM's products for Europe.

Key Responsibilities:

- Digital Design Content Preparation Visualization
- Clean up of 3d Models & 3D modelling for using in visualization
- Worked on 3D Modelling, Content preparation, optimization for visualization in Deltagen
- Storyboarding, Animation preparation.
- Understanding client requirement (Multiple Automotive OEMSs for their operations in Europe) and working on 3DEXCITE standards.
- Knowledge sharing, training new team members, exploring different platforms for visualizations for different requirements.
- Helped in aligning the team towards creative Design for visualization, as I was among the first few Digital Designers while the team started in Pune.

Confidential Data:

- All the work done here for 3DEXCITE clients (Automotive OEMs) were live projects and hence confidential.





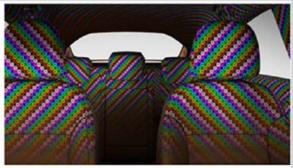
Visual 3D Modelling

Refine CAD geometry during the process of virtual 3D model preparation with dedicated geometry optimization, completion and creation services. Our flexible scanning services bring virtual products to life even when no CAD data is available. This offering is completed by services for 3D environment creation.



Visual CAD2Asset Automation

Streamline visualization processes across your enterprise by driving high-volume media production standardization, efficiency and scalability. In doing so, accelerate product cycles by using existing CAD data that is efficiently converted into visual assets, feeding an expanding landscape of media channels with compelling content.



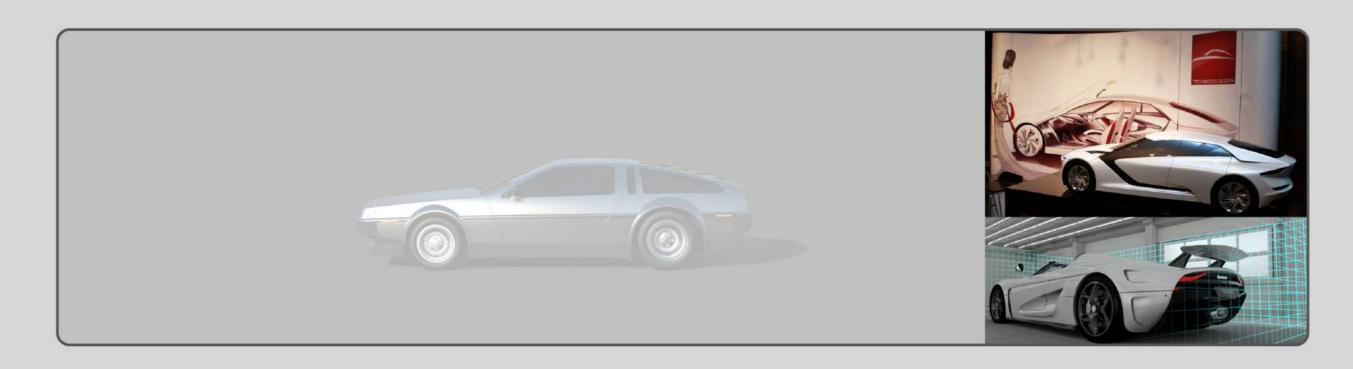
Visual 3D Master Model

Create a single source for all visualization use cases by preparing CAD geometry data and completing it with product information - such as configuration, materials and codes. For a complete solution, we offer 3D master model creation, as well as data and information harvesting, 3D modelling, model lifecycling and distribution.



Visual 3D/2D Staging

3DEXCITE's fast and efficient Visual 3D/2D Staging services use efficient, multi-channel media production pipelines to turn 3D model data into configurable, visually stunning 3D real-time assets, 2D layers and still images for an ever growing number of marketing use cases.





TECHNICON DESIGN GmbH, Russelsheim, Germany TECHNICON DESIGN Alias Modelling Intern Jul 2013- Dec 2013





What I Learned / Experience.

- Industry experience.
- Learning and Improving Alias Modelling Skills and implementing them.
- Understanding Industry expectations, restrictions & quality requirements in Alias modelling and working for that.
- Alias modelling from different types of inputs like scan data, physical model, photographs, sketches.
- Learning the process & project workflow.
- A light introduction/idea about the CNC Milling & Learning Clay Modelling.
- Adapting to a different culture and contributing as a team player.

BMW M4 Concept

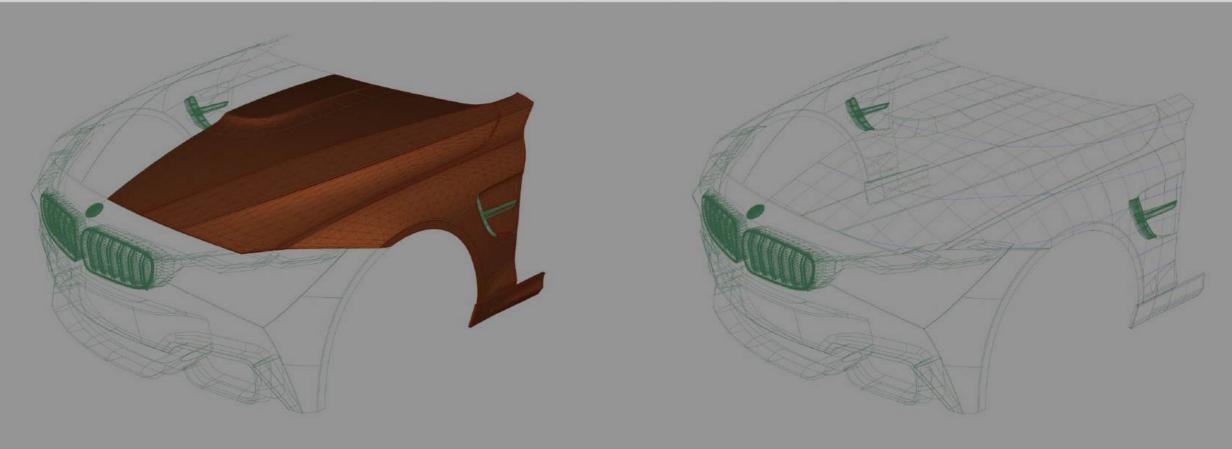
Scan data Modelling of the BMW M4 Bonnet & Fender from given scan, & Sketch modelling of front bumper as per reference image in 16 hours.



Input: Reference Image

BMW M4 Concept

Scan data Modelling of the BMW M4 Bonnet & Fender from given scan, & Sketch modelling of front bumper as per reference image in 16 hours.



Input : Scan Data Process : Creating Sections on Bonnet & Fender

BMW M4 Concept

Scan data Modelling of the BMW M4 Bonnet & Fender from given scan, & Sketch modelling of front bumper as per reference image in 16 hours.



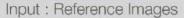
Patch Layout

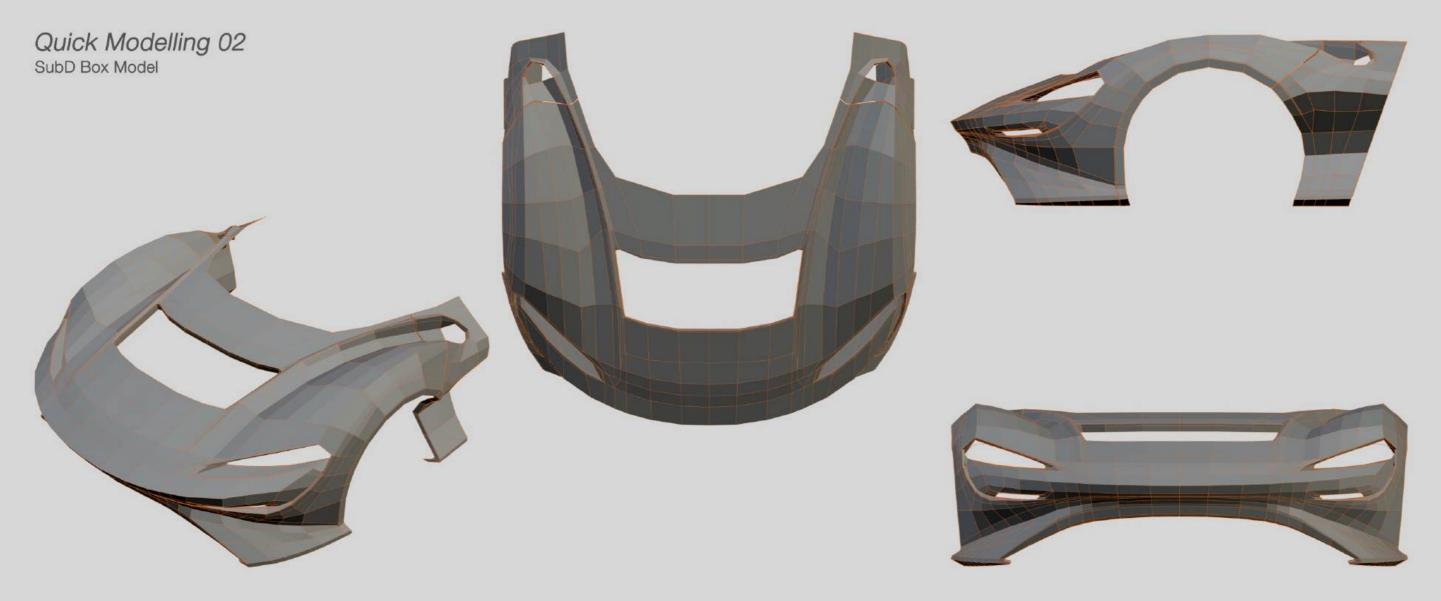
Hardware Shade

McLaren Elva

Model McLaren Elva front fascia in Alias SubD and Alias Nurbs usinng reference images



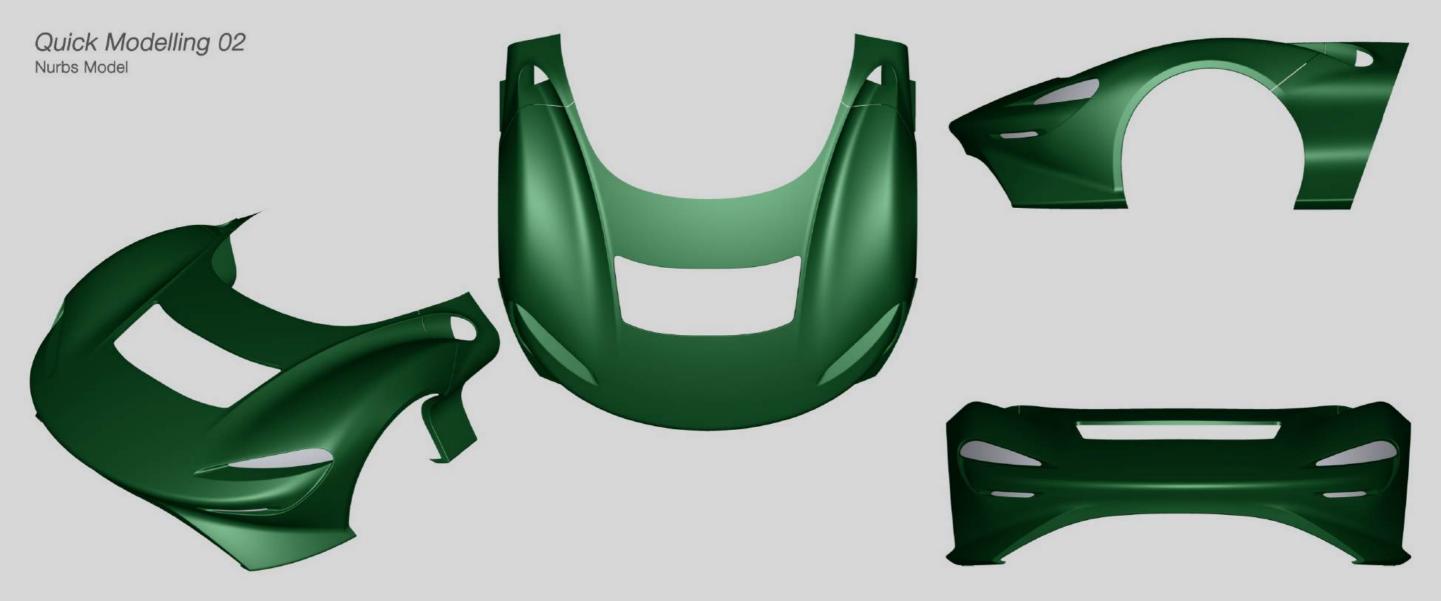






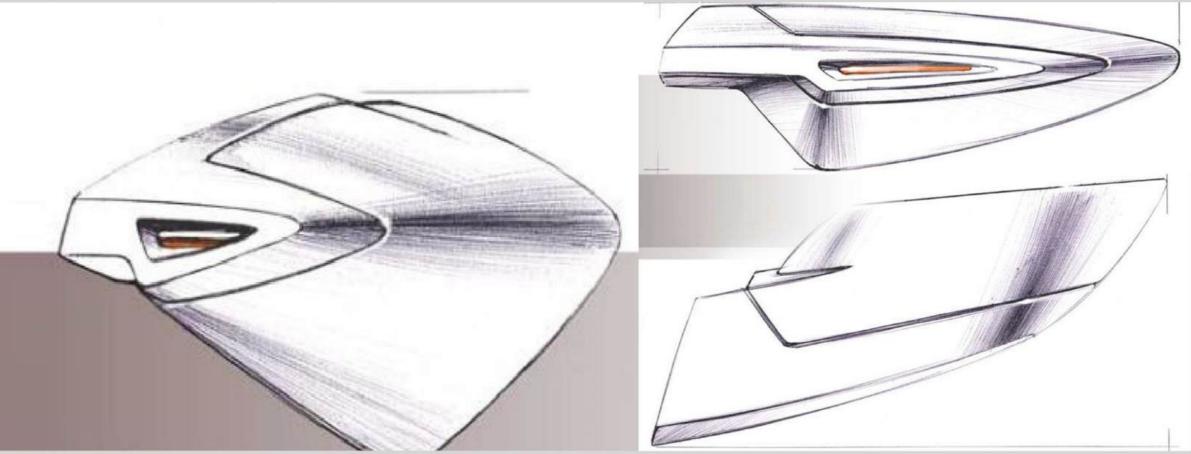




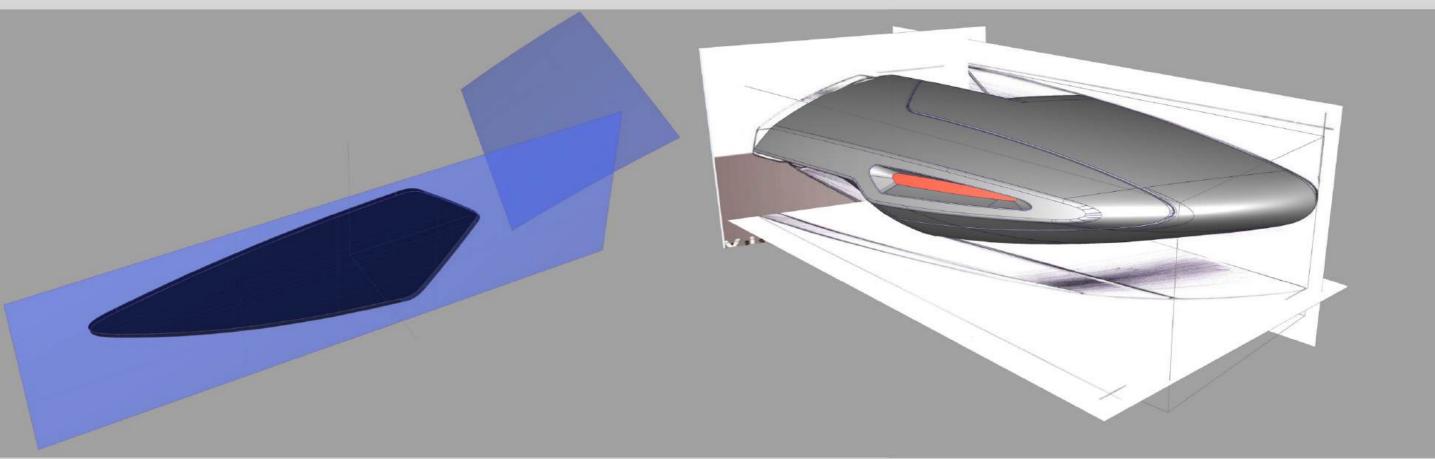


Rear View Mirror - Sketch Modelling

Quick Sketch Modelling with the aim to assess the relevance of the proposed style volume

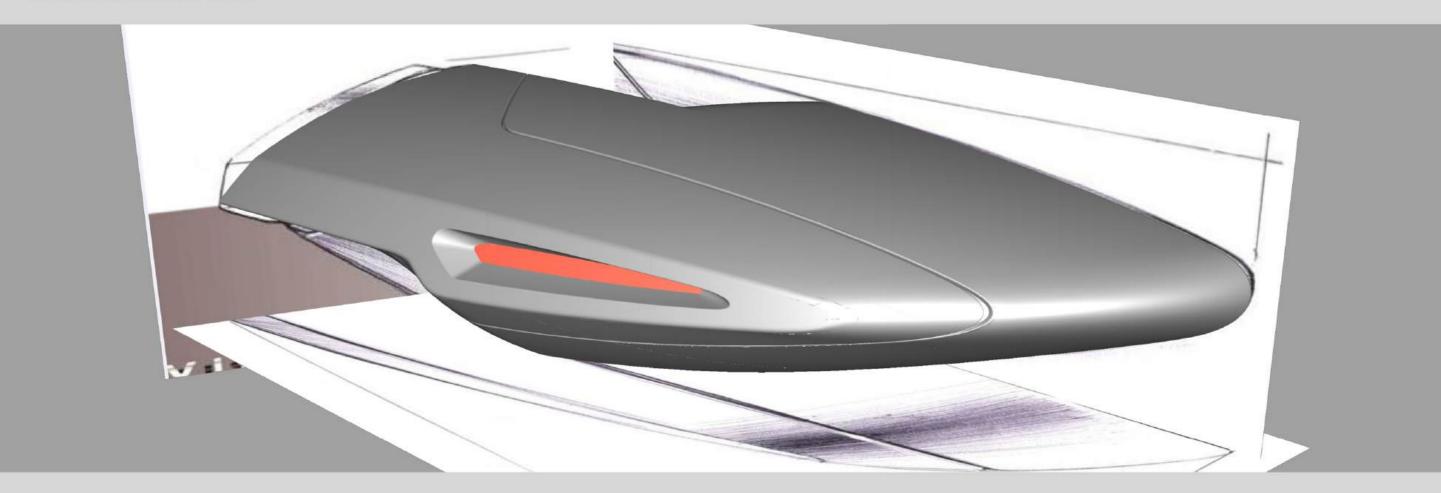


Input : Reference Sketches

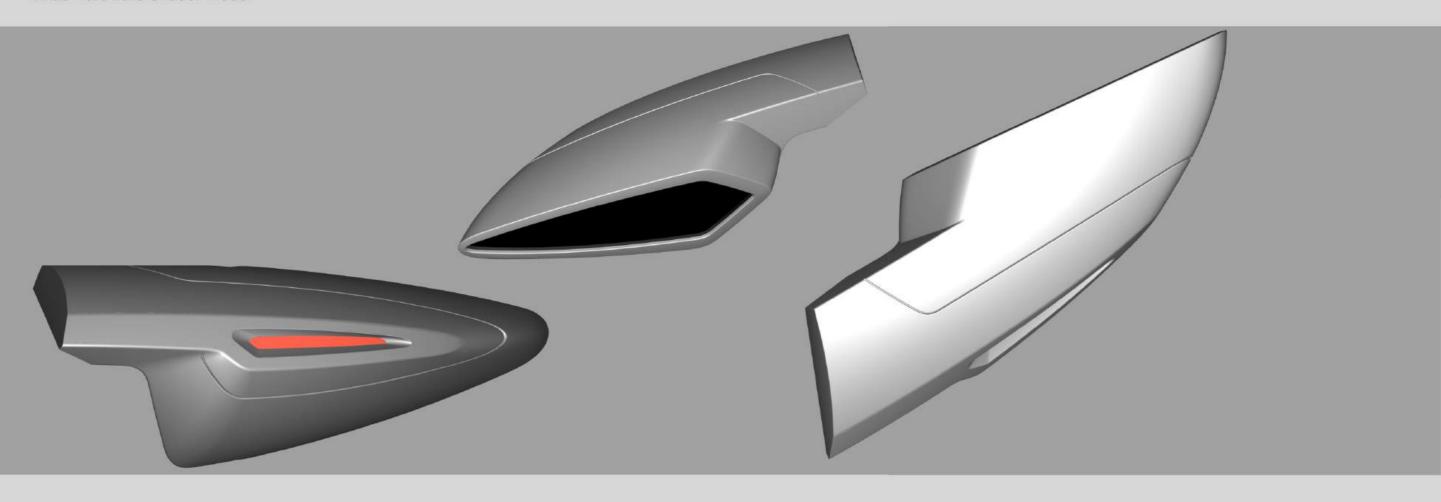


Input: Mirror and Axes Reference

Quick Modelling 03 Alias Hardware Shader Model

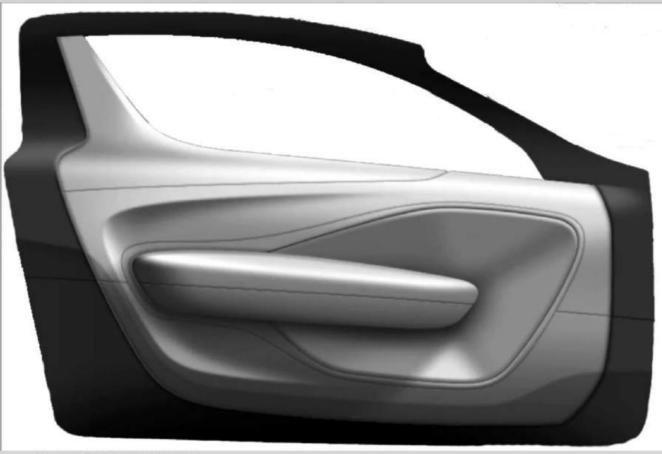


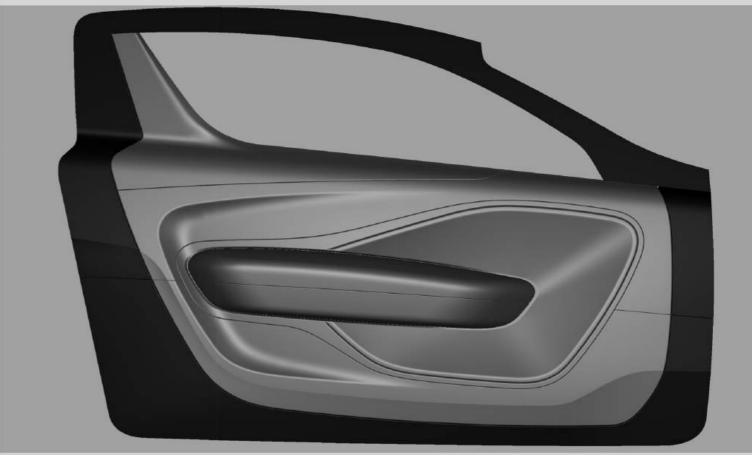
Quick Modelling 03 Alias Hardware Shader Model



Door Trim - Sketch Modelling

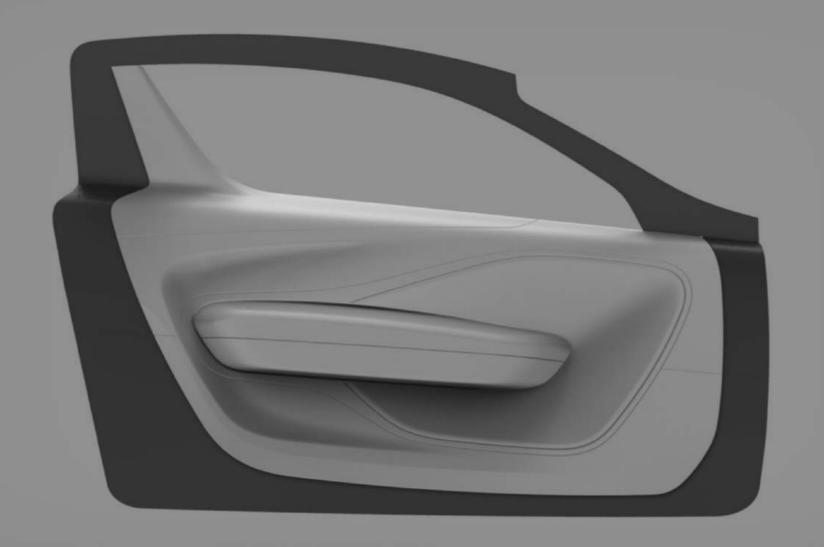
Quick Sketch Modelling of the Door Trim as per input sketch





Input : Reference Image

Alias Hardware Shader



Blender Render

Render Process



Note: The 3D model used is a free download from sketchfab.com. This 3d data was used to experiment colour, material and finishes during the cycles Render process.

Blender Render



Note: The 3D model used is a free download from sketchfab.com.

3d data was used to experiment colour, material and finishes during the cycles Render process.

Unreal Engine Render

Render Process



Note: The 3D model used is a free download from sketchfab.com.

This 3d data was used to experiment colour, material and finishes during the cycles Render process.

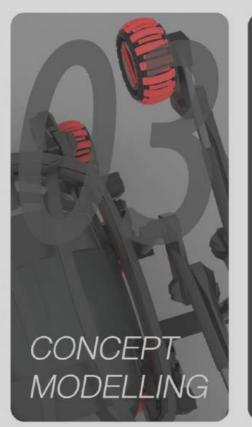
Unreal Engine Render



PROJECTS

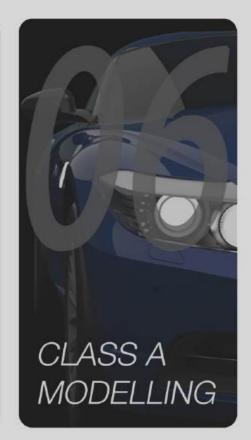




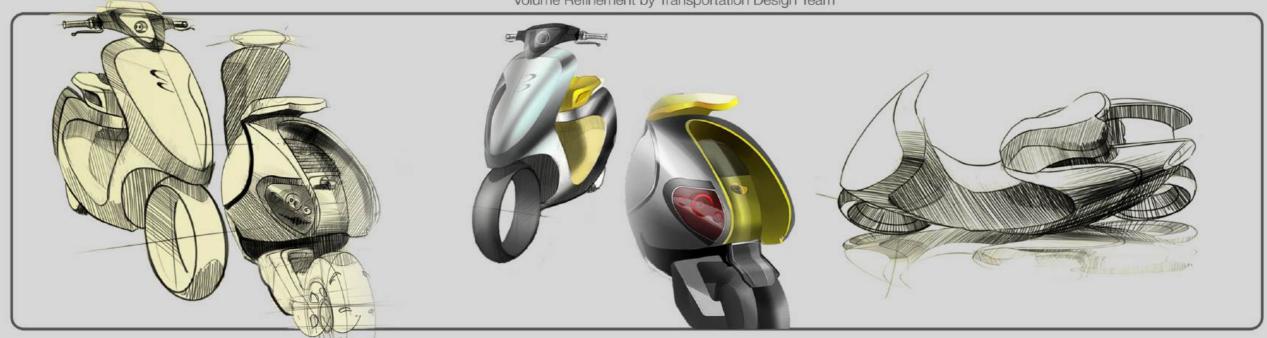








Volume Refinement by Transportation Design Team



PEPPY RIDE
Design a Unisex scooter
Team Project
SKETCH
MODELLING

Transportation Designers
Raunaq Babbar(Team Lead),
Akshay Pardeshi,
Manojna Bellur,
Siddhartha Kazami

Digital Designers
Anand Shetye,
Joji Isaac Abraham

Persona Brainstorm: taking part in creative design process



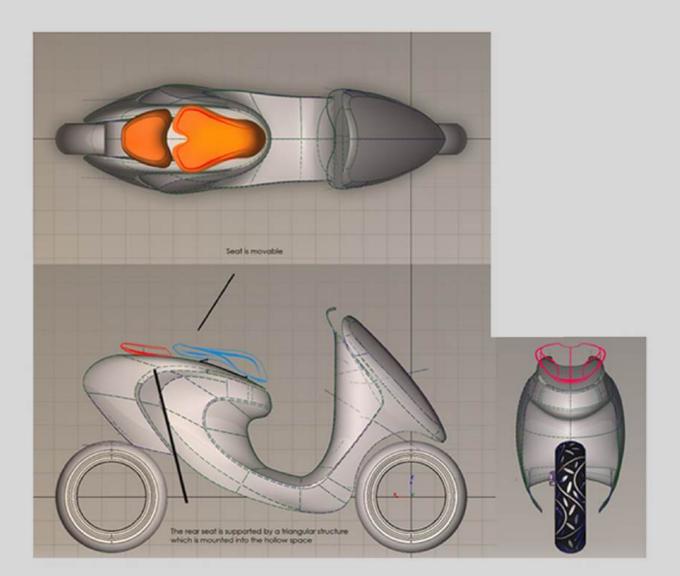


Package development

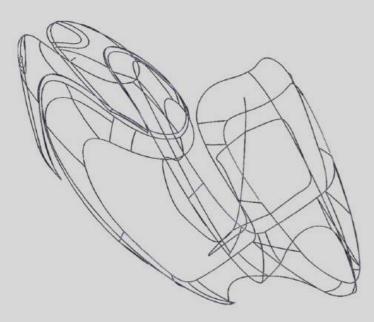


Transportation Designers using basic 3D surface model to sketch details like seat.





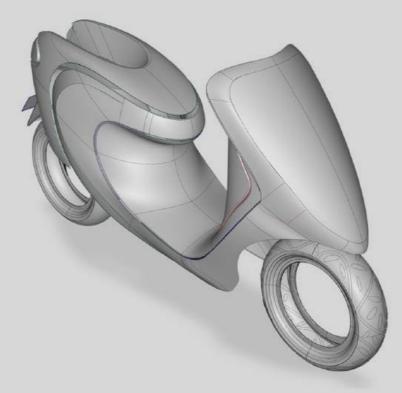
Building curve network



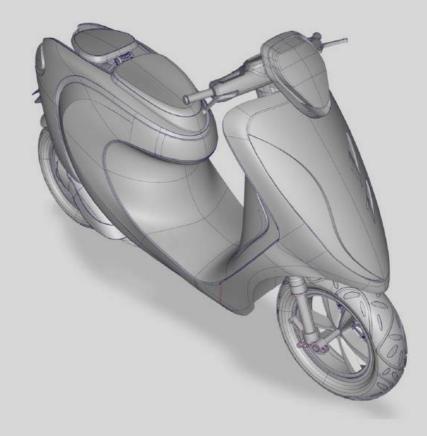
3D Developement / Experience...

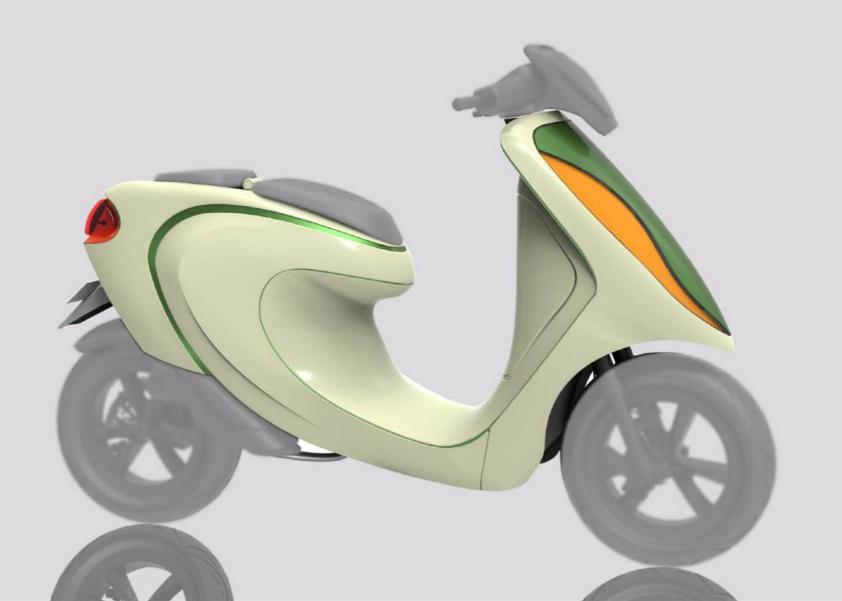
Involves constant interaction within the Digital Designers and the Transportation Designers. Transportation Designers uses 3D models with basic surfaces to sketch and develop the details.

Building basic surfaces



Adding details & shutlines











02

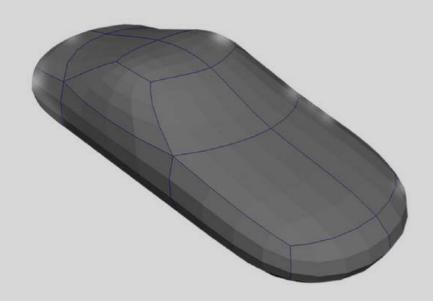
FAIRLADY Z

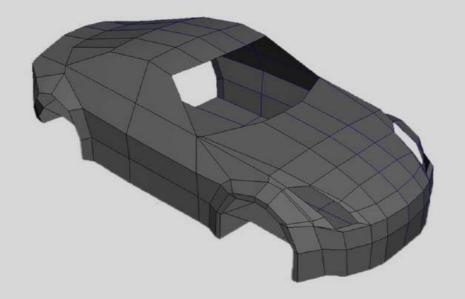
Remodelling Nissan 350Z in MAYA Personal Project

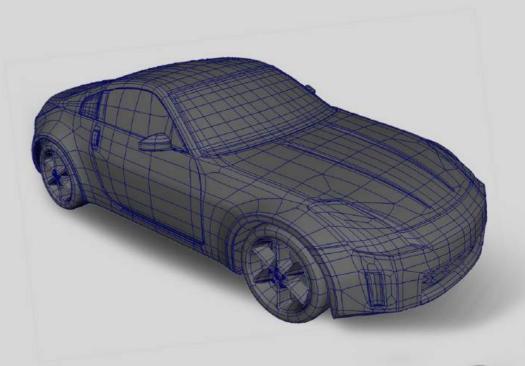
POLYGONAL MODELLING



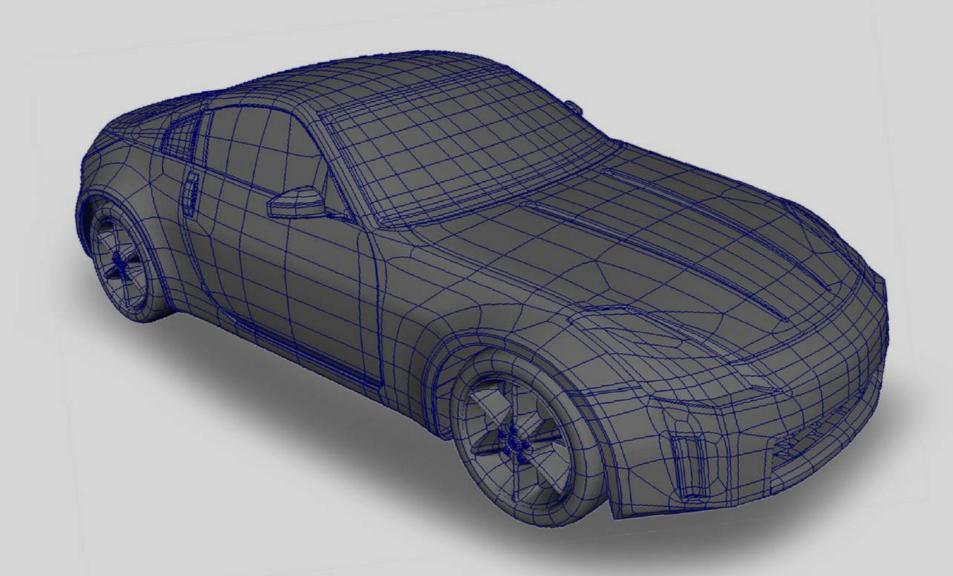
Blocking the volume Separating Parts Adding details & shutlines

















Rendered in V Ray. Post Production in Photoshop





REQUIREMENTS

Bold Strong Flexible Arms Go Anywhere



03

EXPLORE MARS

Design a Mars Exploratory Vehicle
Personal Project done during the MasterClass by MICHAL JELINEK

CONCEPT MODELLING

Process

Feasibility & Constraints of features

Features



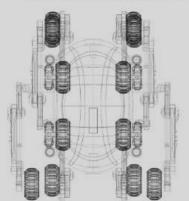
Stong Arms

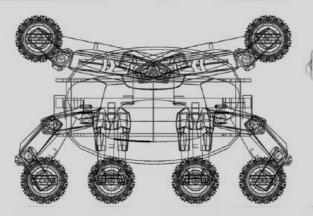


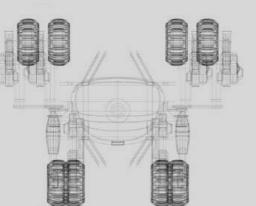


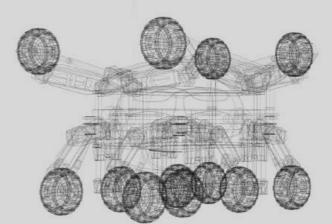
All Terrain Wheels

Package development

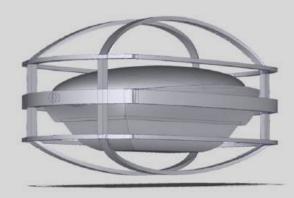


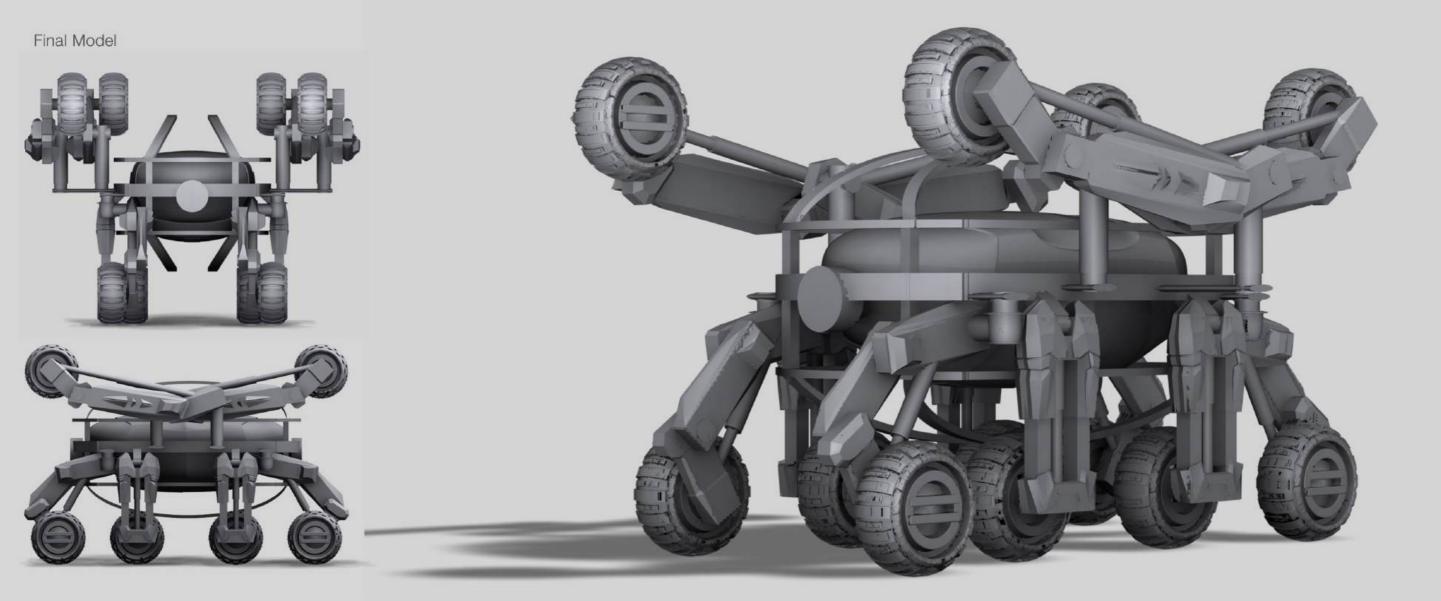


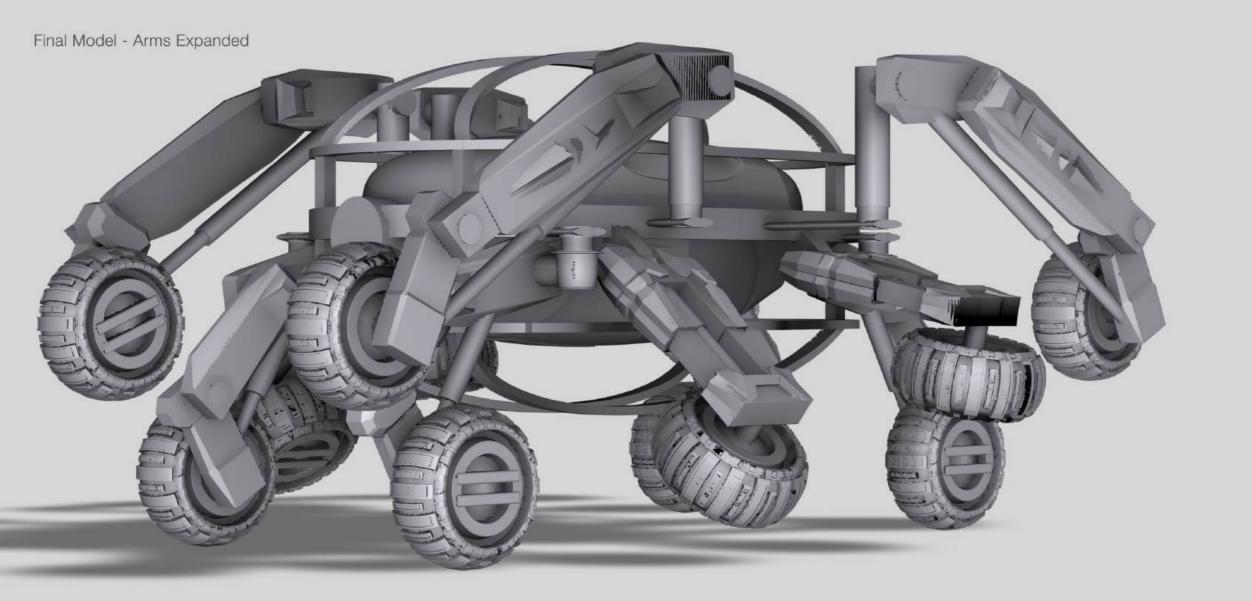


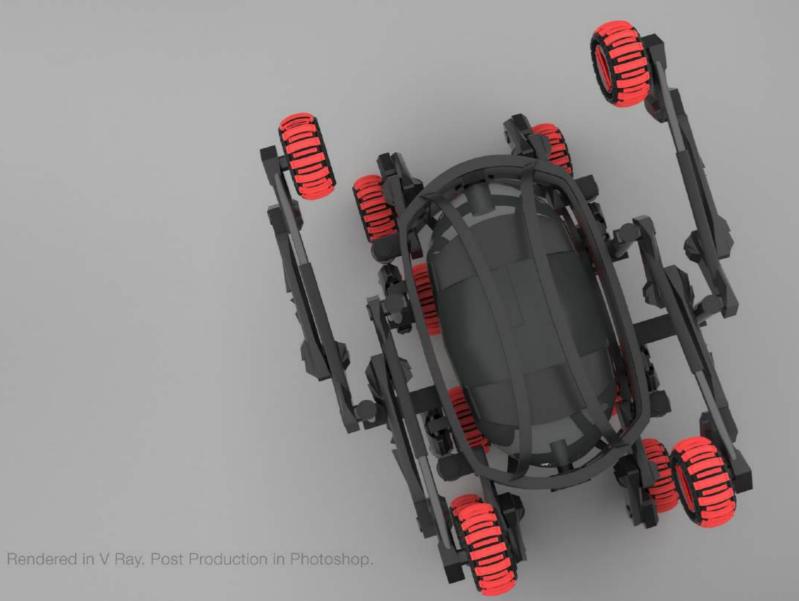


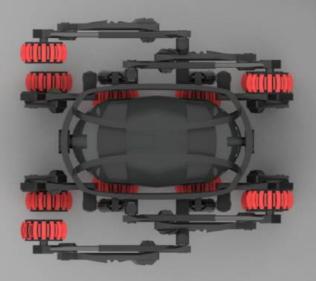
Functionality Aspect





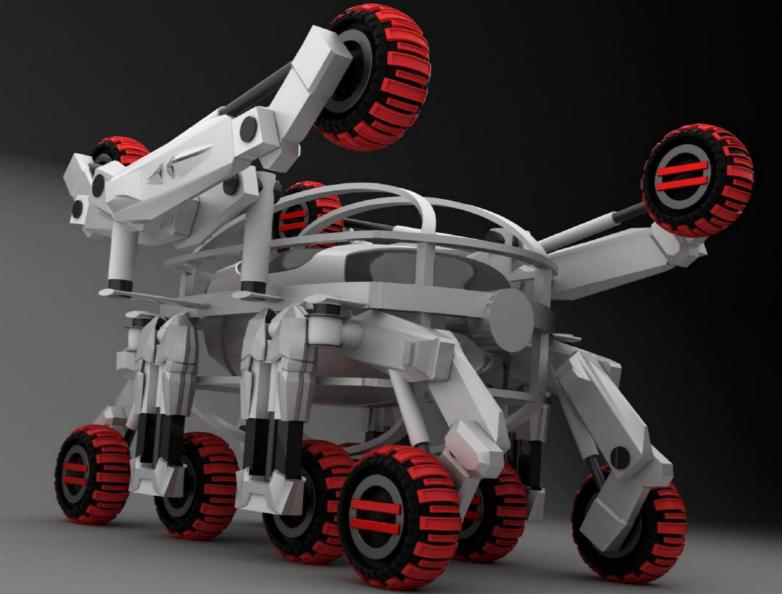








Rendered in V Ray. Post Production in Photoshop.



Rendered in V Ray. Post Production in Photoshop.

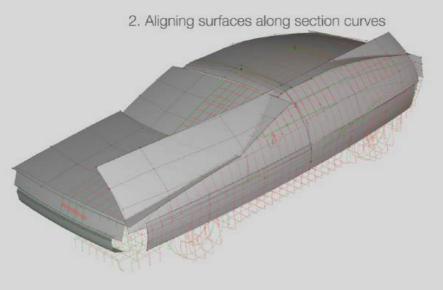


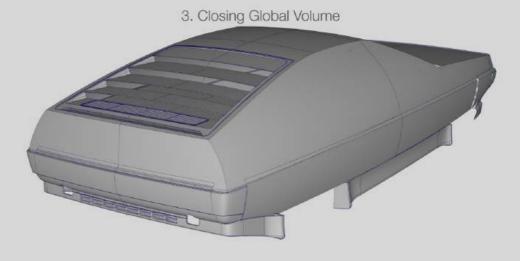
SCAN DATA MODELLING

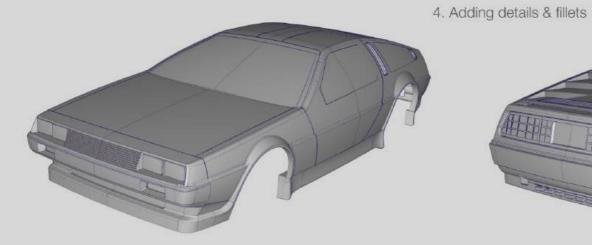


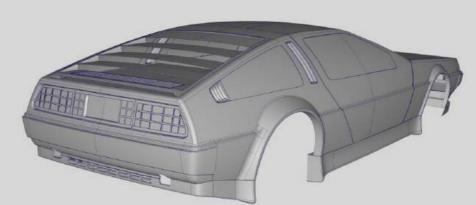












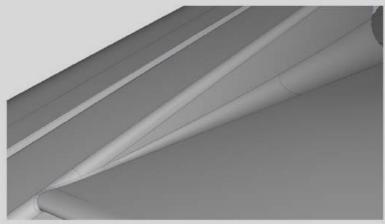


What I Learned / Experience...

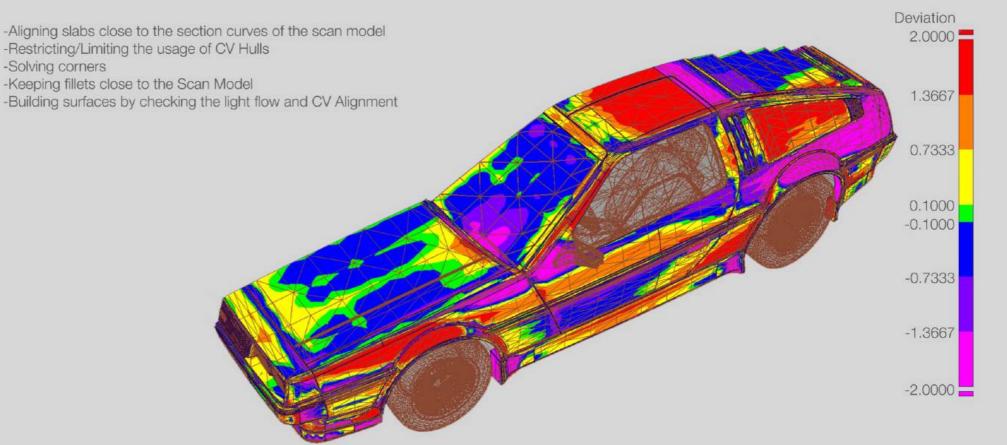


-Solving corners

Detailing with "Y" fillets



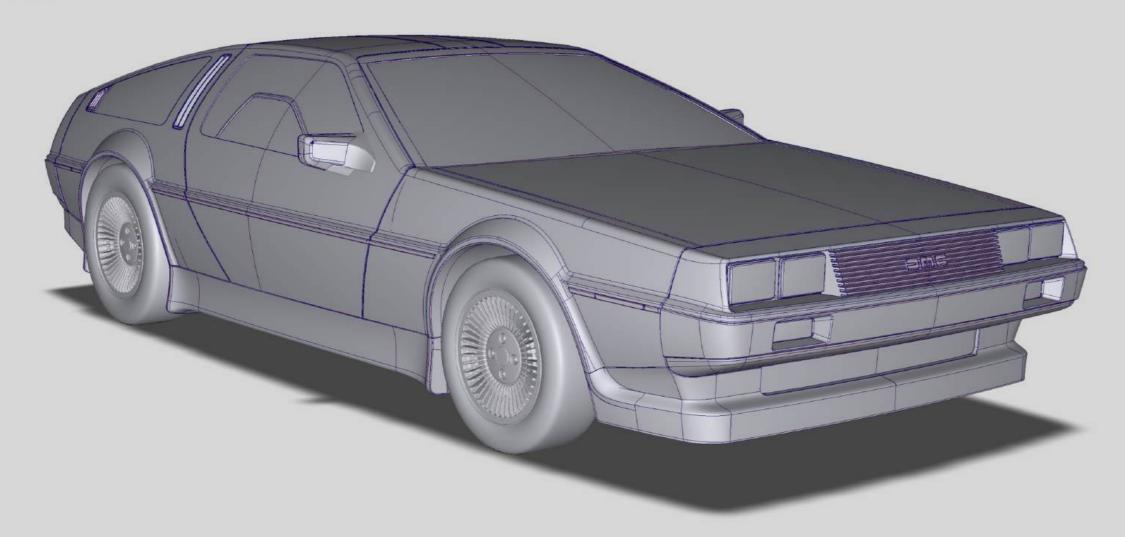
Corner Solving



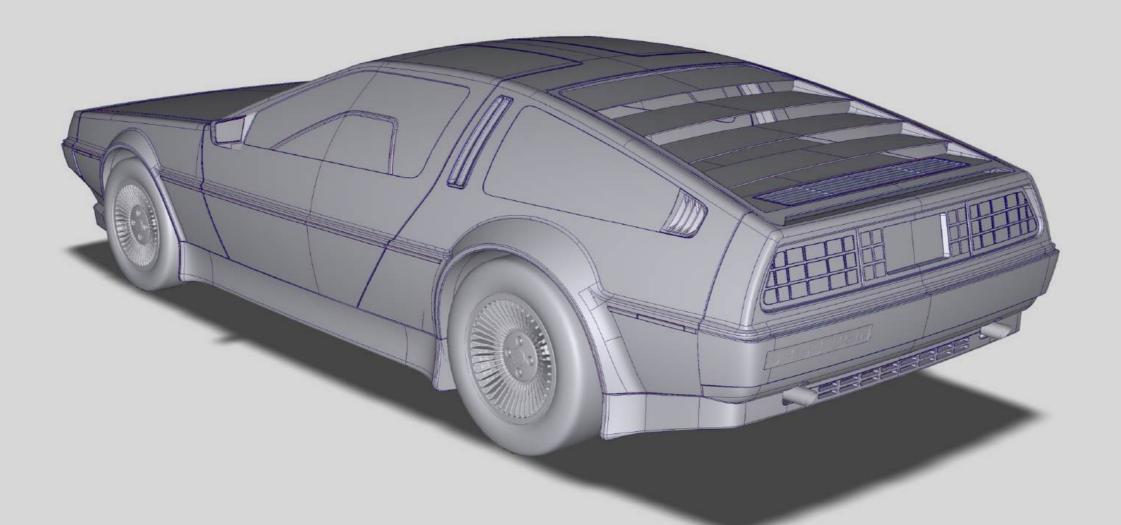
Deviation Map

Involves cross checking the extend of deviation of surfaces from the mesh using deviation map. The deviation after correcting the flaws of mesh are also visible towards the rear.









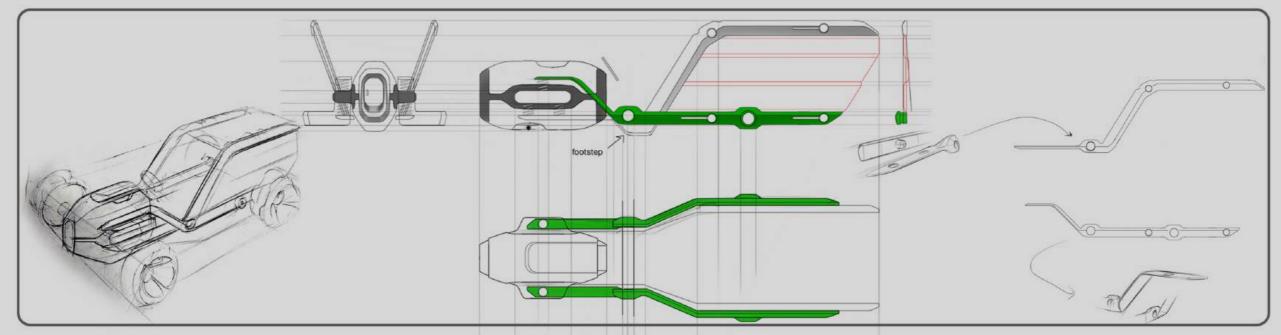




Rendered in Keyshot. Post Production in Photoshop







05

MOBILITY FOR ALL

Google community vehicle for the underserved parts of India Team Project

DESIGN SOLUTION

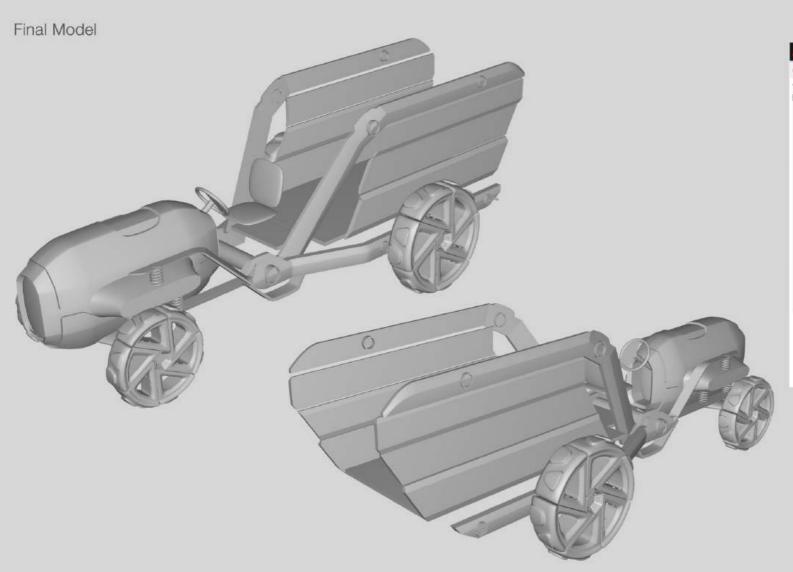
MICHELIN CHALLENGE DESIGN 2016

FIRST PRIZE WINNER

Role - Digital Designer Inputs regarding feasibility & Suggest Design solutions along with 3D Modelling & Visualization

Scenarios & Design Solutions









Dass and his team had earned patents for many of the parts.



multi-purpose farm vehicle dedesign envisages the connected Dass said that their design they face. well as act as a passenger vehi-multiple functions. Project Loon, parts.

petition. The project in May this year.

concept, the vehicle is dieseligned by four Pune students. Design. Dass said that they had powered and its cost would be as won the first prize in the started working on the projectin minimal. The team had traveled lichelin Challenge, an interna- February and submitted the extensively in rural areas to understand the mobility issues

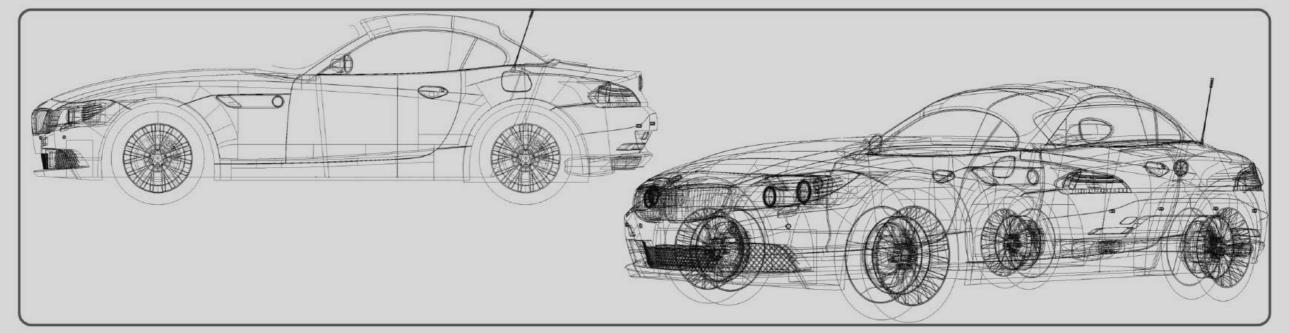
tipleuses. Dass said that in their

vehicle to function as an ambu-lance in case of emergencies as Balloon technology for their earned patents for many of the









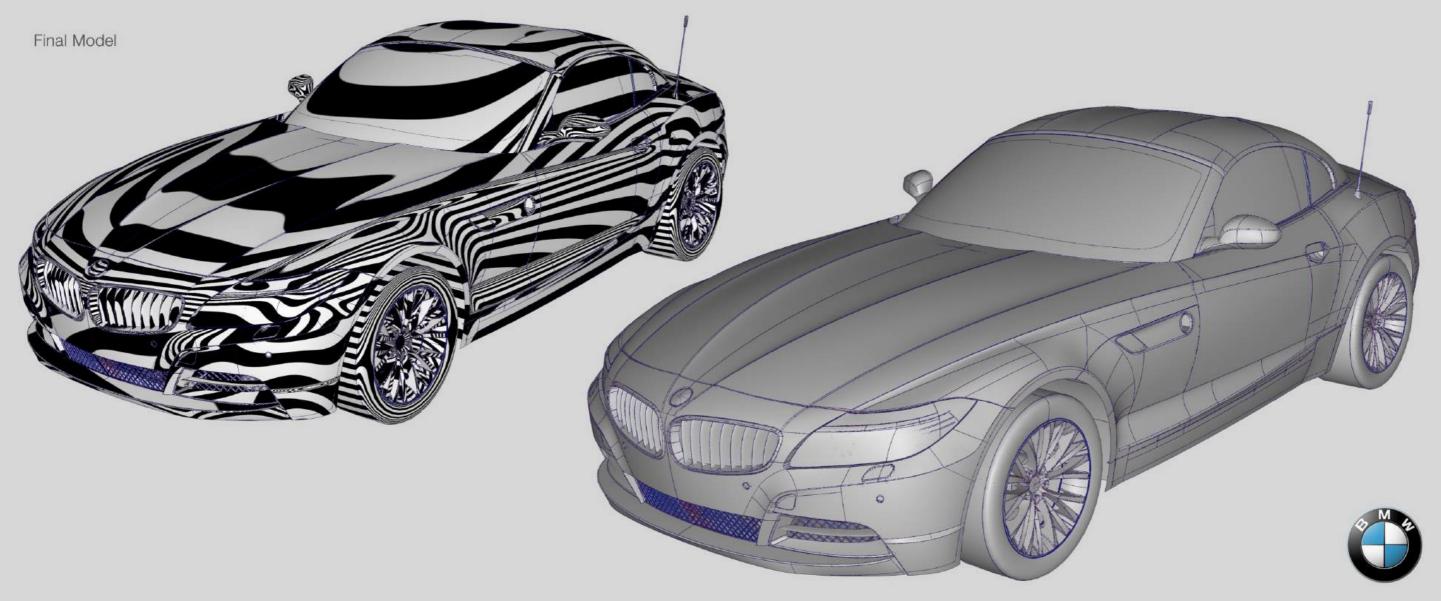
THE Modelling Personal CLAS MODE

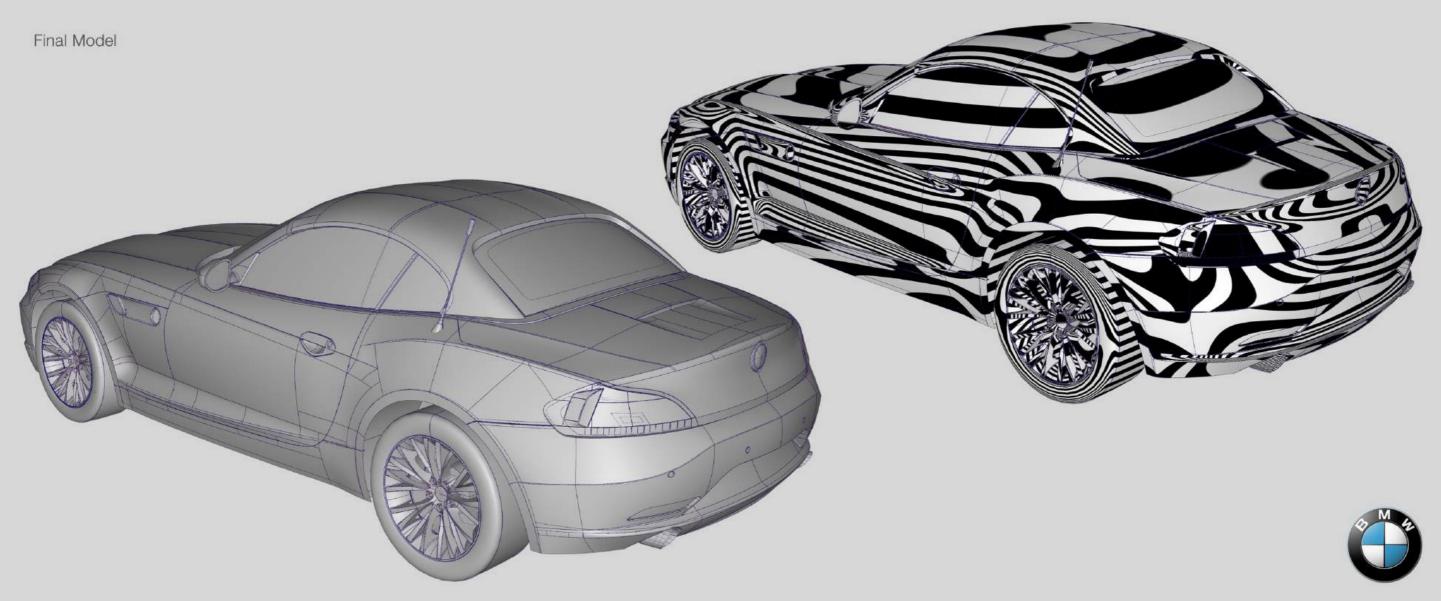
THE ROADSTER

Modelling BMW Z4 with Class A surfacing Personal Project

CLASS A MODELLING









Rendered in Keyshot, Post Production in Photoshop





Rendered in Keyshot. Post Production in Photoshop.



JOJI ISAAC ABRAHAM DIGITAL DESIGNER - AUTOMOTIVE SURFACING ASPIRELI - DUBAI Nov 2023 - Present

Looking out for opportunities to utilize my skills and competencies as a Lead Digital Designer that offers professional growth while being resourcefull and innovative.

INFO

- +971 558303706
- B isaac.joji@gmail.com
- finkedin.com/in/jojiisaacabraham
- behance.net/jojiabraham



DESIGN AWARDS

Michelin Challenge Design 2016

1st Prize

Team Project, Role: Digital Designer

SKILL SET

Near Future Goals

Blender Parametric Modelling VR Modelling using Gravity Sketch



PREVIOUS EXPERIENCE

FORD - UK

on consultancy through Contechs UK and Satven India Digital Modelling Consultant - Specialist Mar 2023 - Nov 2023

TATA MOTORS DESIGN, Pune

Lead - CAS Modelling, Digital Design Aug 2018 - Mar 2023 Senior Manager - Design Centre Dec 2017 - Jul 2018 Digital Designer Sep 2016 - Nov 2017

Dassault Systèmes - 3DEXCITE, Pune

3DPLM Global Services (3DGS)

Digital Designer Dec 2015 - Aug 2016 (Permanent) Feb 2015 - Dec 2015 (Contract)

TECHNICON DESIGN GmbH, Russelsheim, Germany

Alias Modelling Intern Jul 2013 - Dec 2013

3D Modelling

Alias Nurbs Alias SubD Mava Blender

Rendering

VRED 3DEXCITE DELTAGEN Vray in 3DS Max Unreal Engine Keyshot

Compositing & Post Production

Adobe Illustrator Adobe Photoshop Adobe Premier Pro Adobe After Effects

EDUCATION

Institut Supérieur du Design (ISD) Rubika France | India campus

Digital Design Management (Industrial Design) (2012-2015)

Federal Institute of Science and Technology (FISAT) Kerala, India

Bachelor of Technology in Computer Science and Engineering (2005-2009)

Managerial

Analysis & Co-ordination Problem Solving Team Management **Tight Deliveries**

Physical Modelling

Clay Modelling







