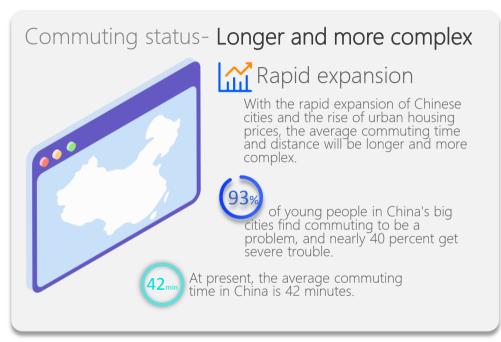
2050 My Pod Project

Eelectric modular vehicle provide a new combined travel option for people who have a long commute time. Improve their travel quality and optimize their combined travel experience.



Why design this vehicle?



Infrastructure



China had the longest High-Speed Railway network in the world, Which is 29,000 kilometers by end of

Overcrowding Issue



In 2025, 70% of the Chinese population will live in cities, which means 350 million people will be added to the Chinese urban population. This will affect traffic conditions in a significant way.



According to the forecast, the middle class in China would grow to approximately 700 million by 2020.

Under the stress



Middle-class families experiencing housing stress, they may choose to move to the far reaches of a metropolitan area to avoid either overcrowding or overpaying for housing closer to the urban core, causing another form of housing stress: longer commutes to work

Potential solution

Longer and more complex Journey



Cabin can transfer to high-speed railway automatically to make commute time shorter and certain.

Overcrowding Issue



Commute in a private and relaxing environment.

Why modular like this





User Centre

- The transfer process does not User to do any thing
- Personal space
- Maintenance-friendly
- New ownership



Electric Friendly

- Quick Battery replace
- Most electric consume at the urban environment



Easy to Switch

- The transfer process is smooth and quiet
- Lower cost

Potential solution



Personal Pod



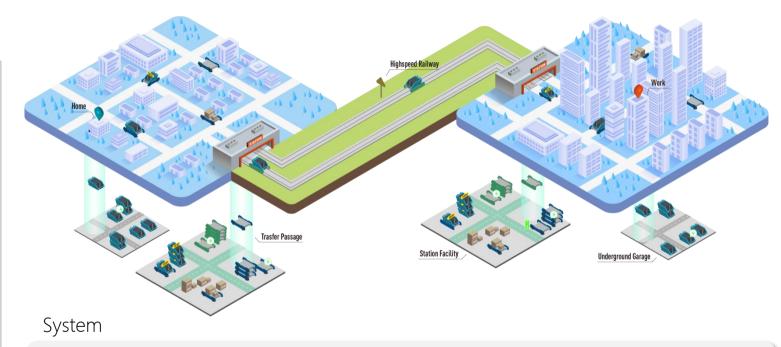
TAXI Pod



Cargo Delivery



Infrastructure Access



- The system will plan the route for the user, which includes the arrangement of when and where to engage with the high-speed railway.
- The system will manage to store and distribute the process of the chassis and vehicles.
- The system is able to connect to vehicles and made the most efficient transport arrangements using data been gathered.

Story board- Work pod



Qualified solicitors; Senior Software Engineer, Finance Director.

Attitudes: Working hard, Treasure time, Productive Efficiency, Striving for excellence.

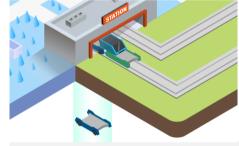
Daily task: They use the vehicle to get to work every day.



1.Daily planning



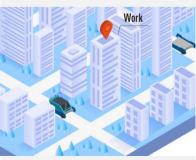
2.To the station



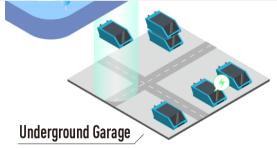
3. Transfer to maglev chassis and High speed travel on railway



5. Transfer back to wheel chassis



6.To work place



7.Pod stored in underground garage



8. Chassis running for other task

Technical

Electromagnetic Crane



- 1. Lifting material: Cast ingot, steel scraps, steel ball, steel billets.
- 2. Wide use in steel plant, smelting plant, waste warehouse.
- 3. The lifting beam can be parallel with the girder or with a 90-degree angle with the girder.
- 4. Magnets with the retentive system to hold 10 minutes after power shut.
- 5. Electrical Weighing System.

Privacy Smart Glass





- 1. Switchable Privacy Glass turns from clear to opaque in less than 0.1 seconds.
- 2. The transformation can be triggered via remote controls, movement sensors.
- 3. Able to transforming a glass partition into an instant backdrop for an HD projector.

Light weight materials





Aluminum

Plastic

Structural materials



Steel

Electric drive



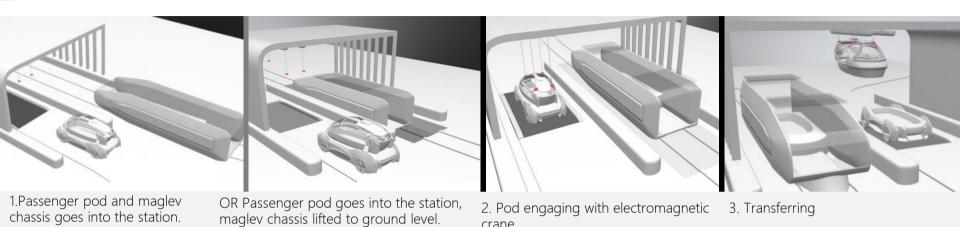


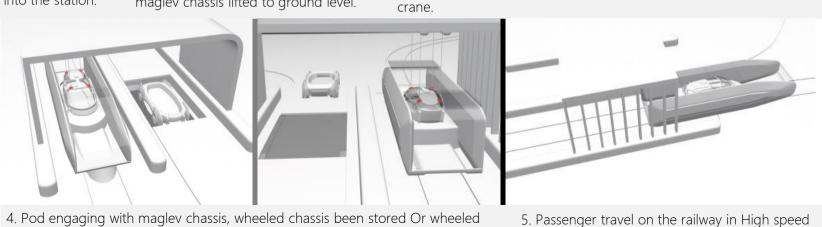
Level 5 Autonomy

That means users only need to input a destination and the vehicle can complete the journey through automatic driving.

Story Board-Passenger Pod

chassis leave for another job.





Story Board-TAXI Pod

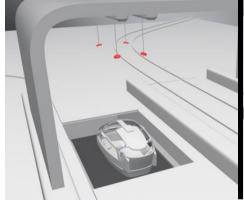


Taxi users and travelers, Young office worker, Tourist

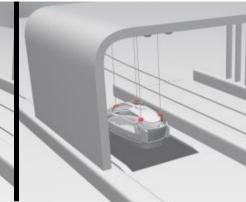
Attitudes: Hassle-free, Want to be secure, Save time, Young, Modern lifestyle, Fast.

Will give the user a secure and comfortable environment, Appearance is easy to recognize.

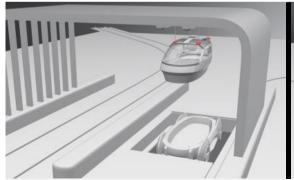
- 1.Book a taxi for an early business trip
- 2. Reserve a pickup vehicle for trip from station to hotel



1.Stored TAXI pod has been found and lift to the ground level.



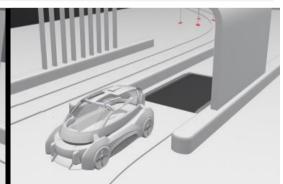
2. Pod engaging with electromagnetic crane.



3.Stored Wheeled chassis been found and lift to the ground level.



4.TAXI pod engaged with wheeled chassis.



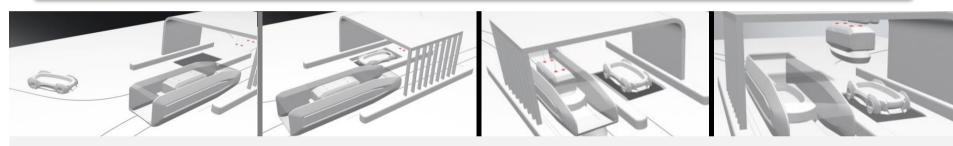
5.TAXI pod ready for the passenger.

Story board-Cargo



Requirements:

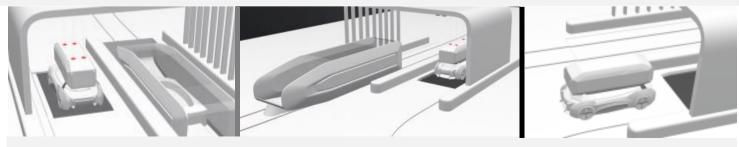
- 1. Safely take the cargo or package from train station to warehouse or package dispatch Centre.
- 2.Improve the transport efficiency of scattered freight demand.
- 3. Need to Deal with the small amount of scattered freight demand at the terminal of the city.



1. Cargo and wheeled chassis coming or wheeled chassis lifted from station

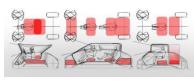
2.Cargo read for transfer

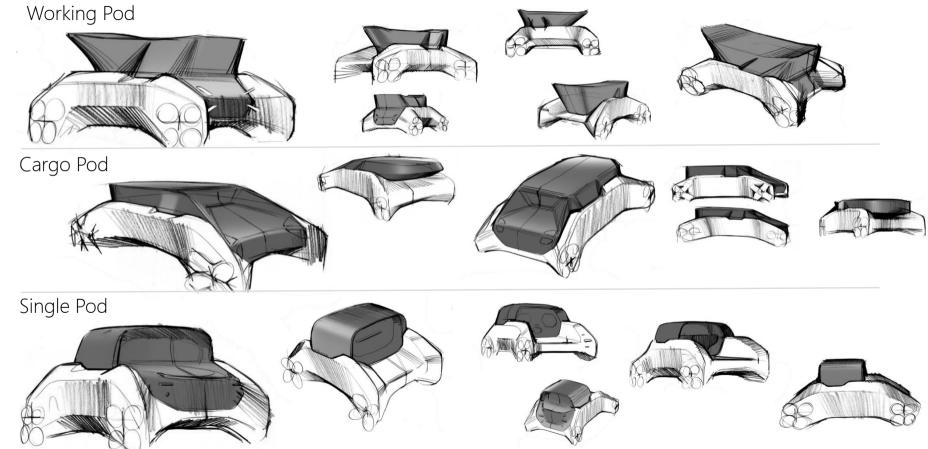
3. Transfering

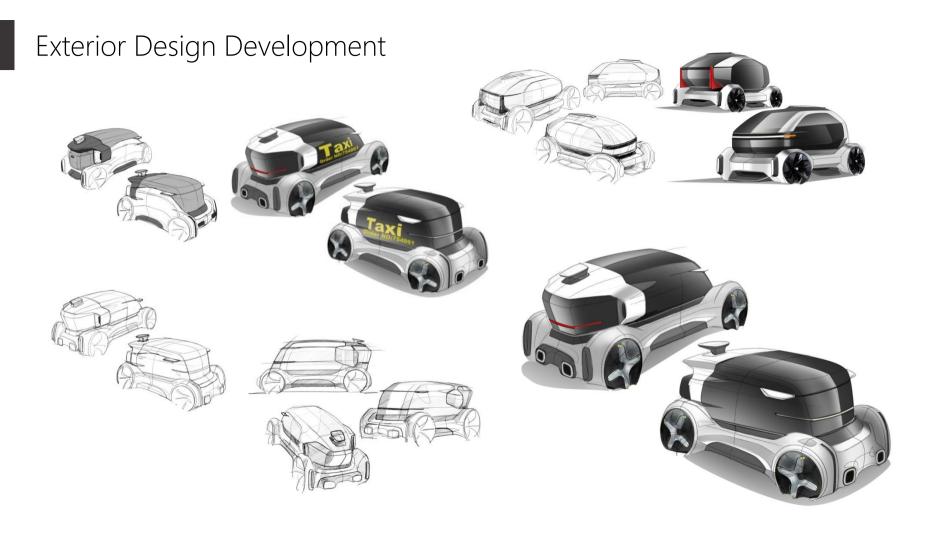


4.Cargo engage with wheeled chassis, Maglev chassis leave or been store in station 5.Cargo heading to delivery

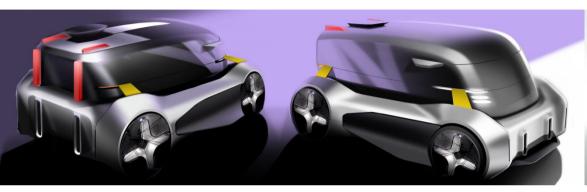
Exterior Design Development







Exterior Design Development











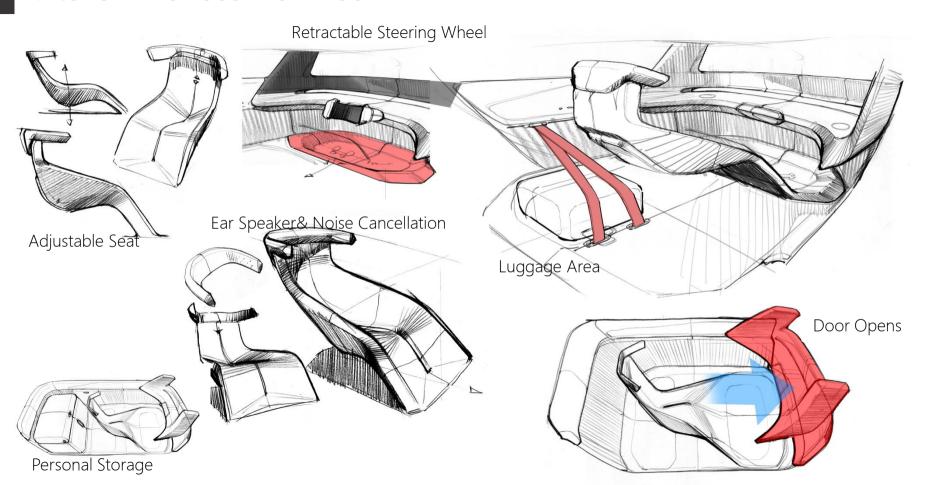




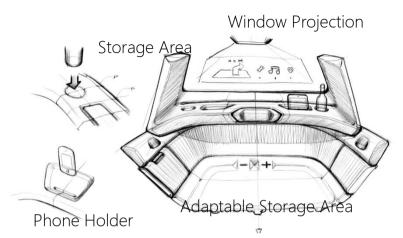




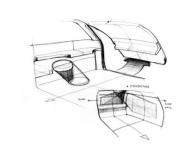
Interior- Previous Work Pod

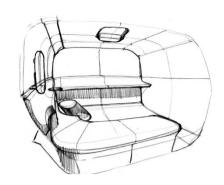


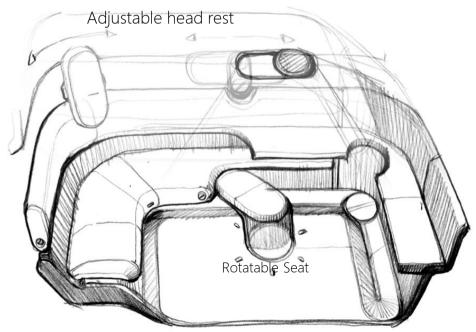
Interior Development









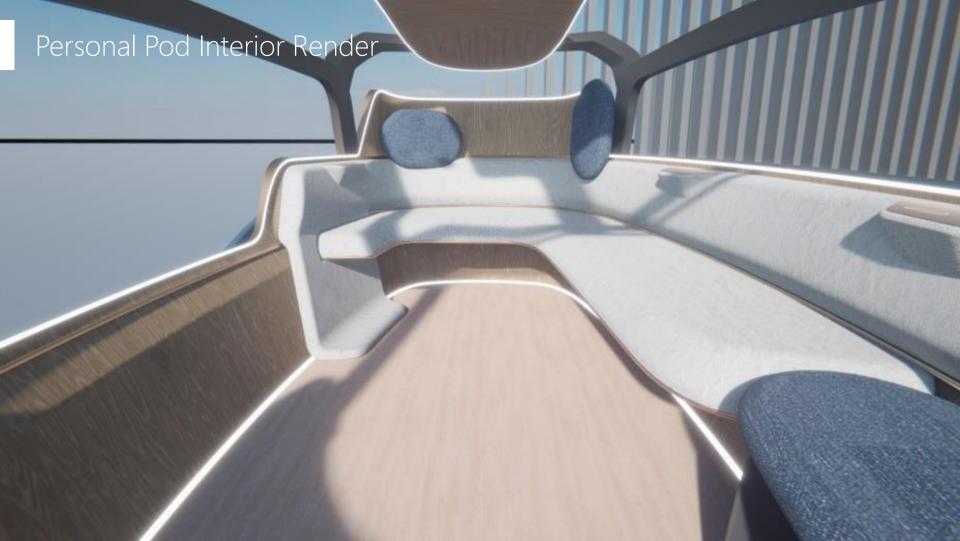


Interior Development- Personal Pod



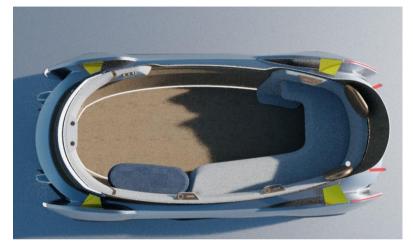








Personal Pod Interior Details





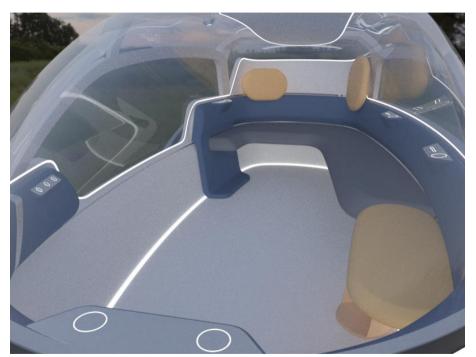


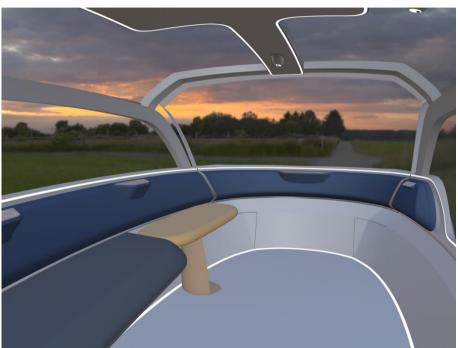


TAXI Pod



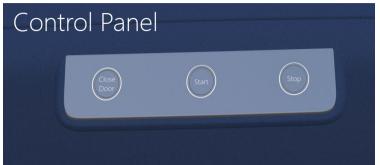
Interior- Taxi Pod





Interior- Taxi Pod

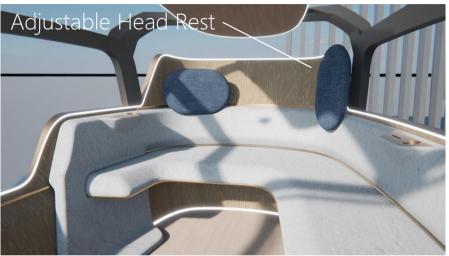






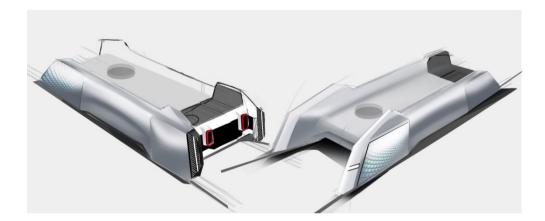
Interior Features

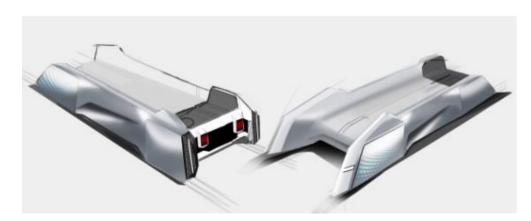




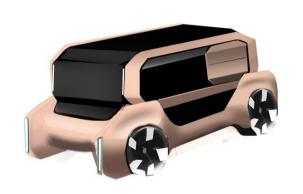
Distinguish TAXI Pod and Personal Pod by the cool tone and warm tone.

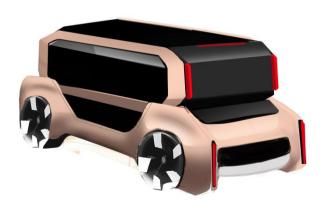
Maglev Chassis





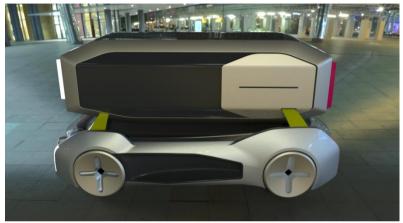
Cargo Pod





Cargo Pod

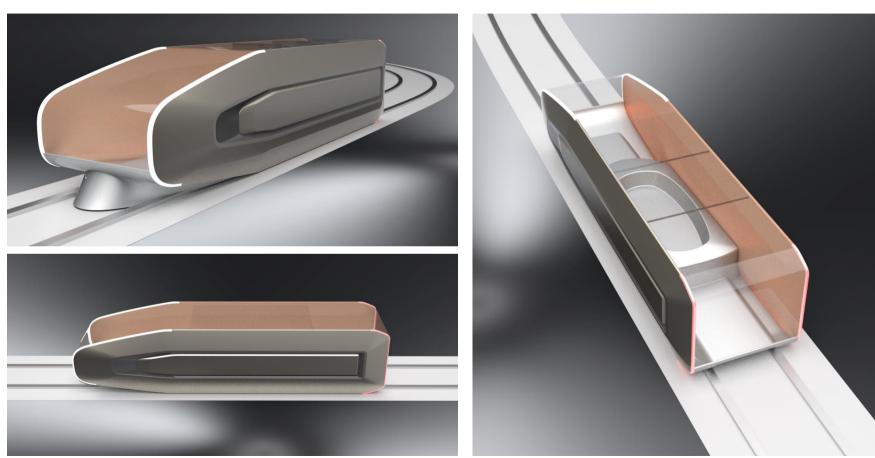








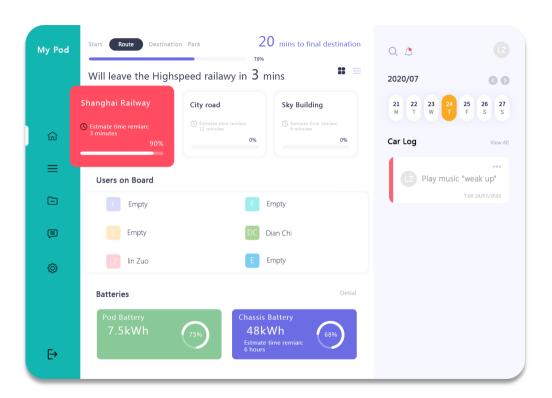
Maglev Chassis



HMI





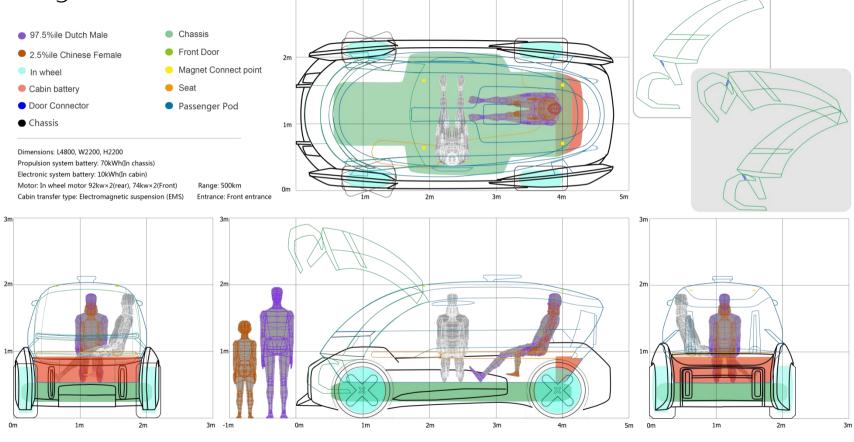


Smartphone Interface

HMI-Main-Screen



Package



Many Thanks

2050 My Pod Project



Module: 6001AAD Concept Delivery

SID: 10635544

Student name: Zhou Li





