

03



FUTURE
OF DRIVING
4th DIMENSION
HUMANIZING TECHNOLOGIES

proprioception

consciousness

natural reflexes

Purely intuitive.
A lively sense of interaction with the
vehicle controls

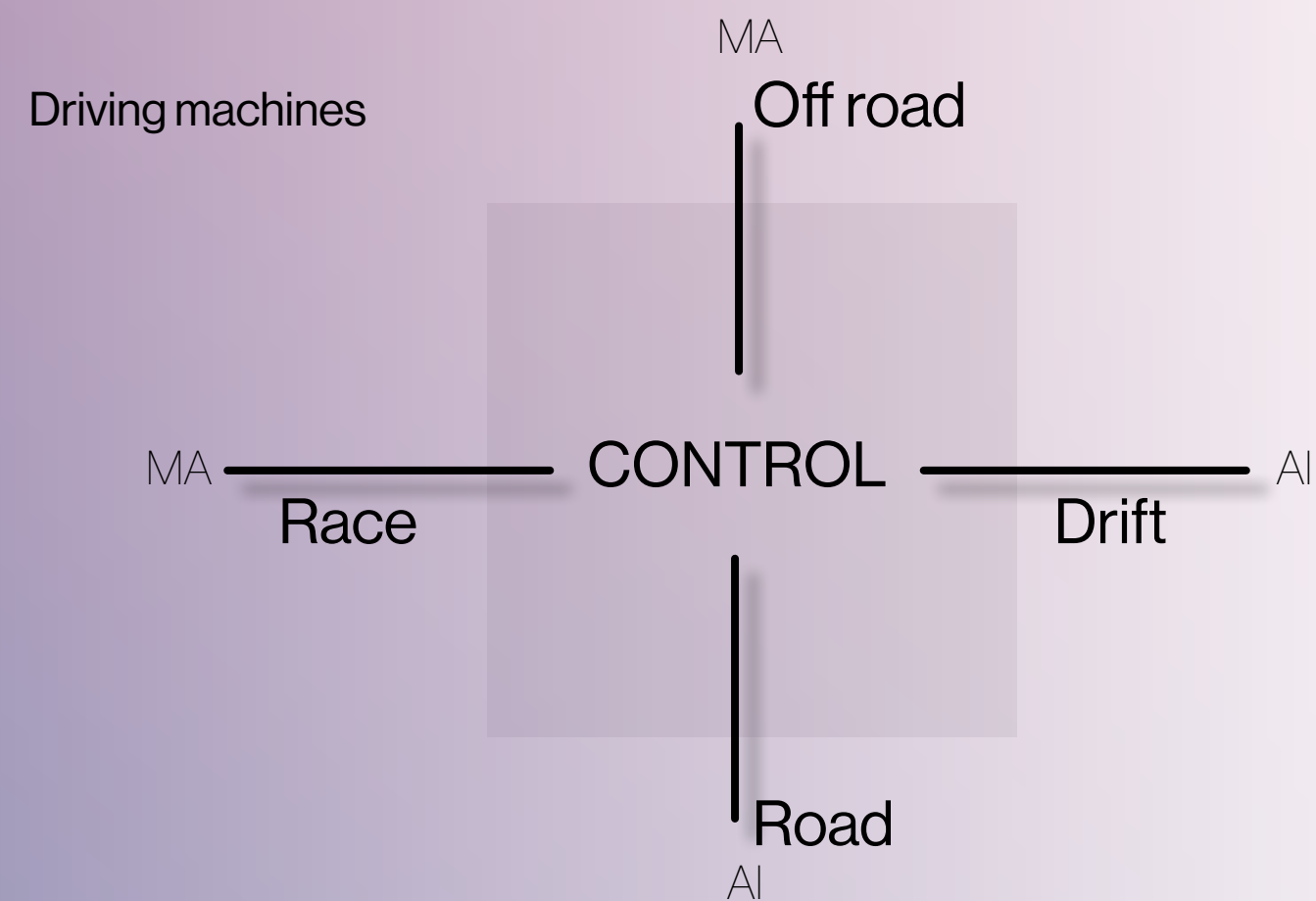


Question?

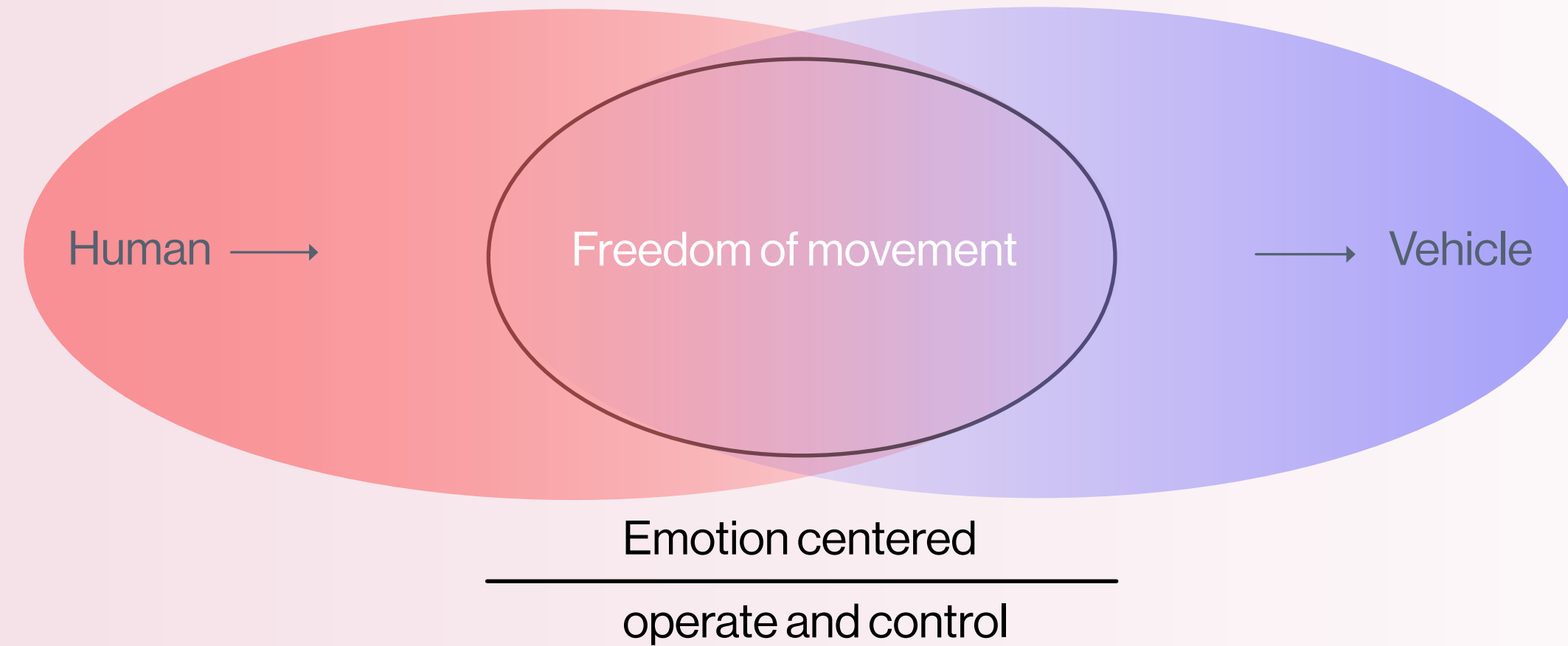
What is the future of driving?

manual or semi-autonomous!

Possible future of manual driving? Does it exist? If yes what could be the possible scenario, is it gonna be a future of luxury? What about driving enthusiasts? For example, driving means to me a lot, its not just travelling from point A to B



Connection



Few times I woke up thinking of driving, there is something deep inside the experience of driving.



AI-INTERACTION



MANUAL EXPERIENCE

freedom

experience

scene of movement

moment of inertia

Gravitational force
own body mass

Background

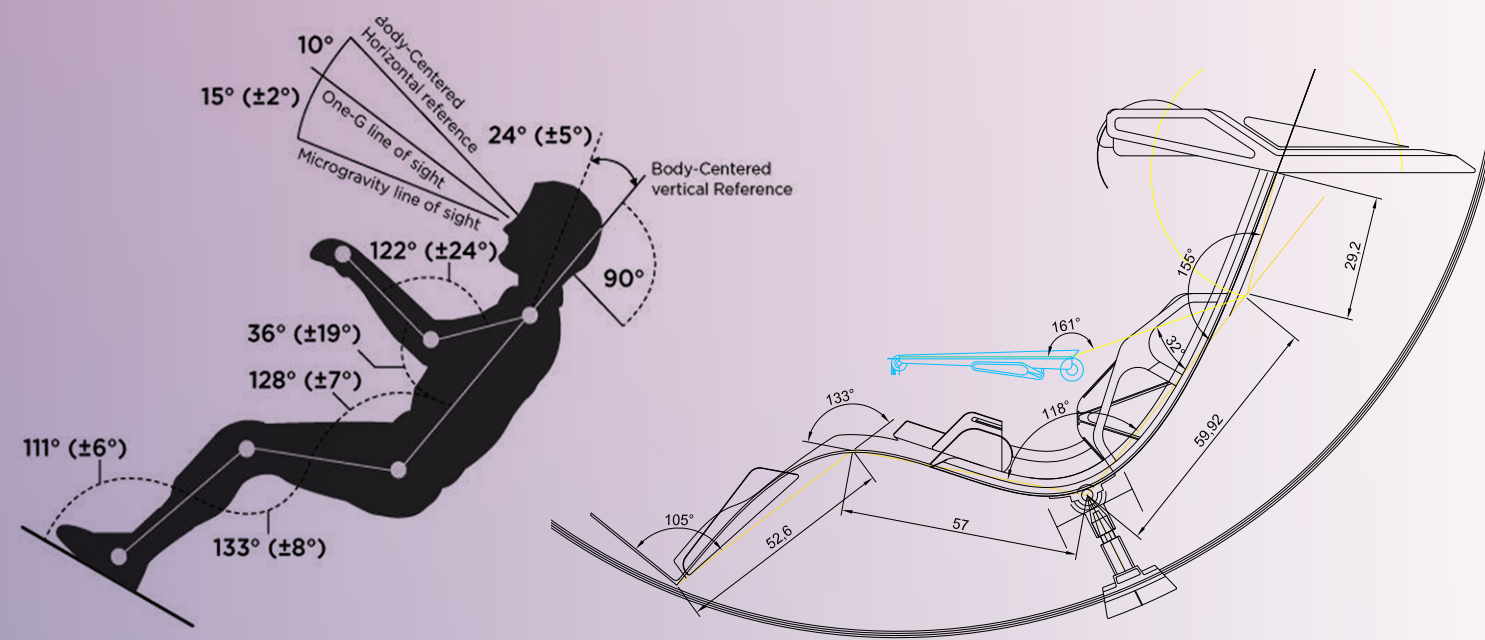
Core of driving experience.....

Ergonomics

Ergonomics and Anthropometrics..

Applied to occupational injury prevention, anthropometric measurements are used to study the interaction of workers with tasks, tools, machines, vehicles, and personal protective equipment especially to determine the degree of protection against dangerous exposures, whether chronic or acute.

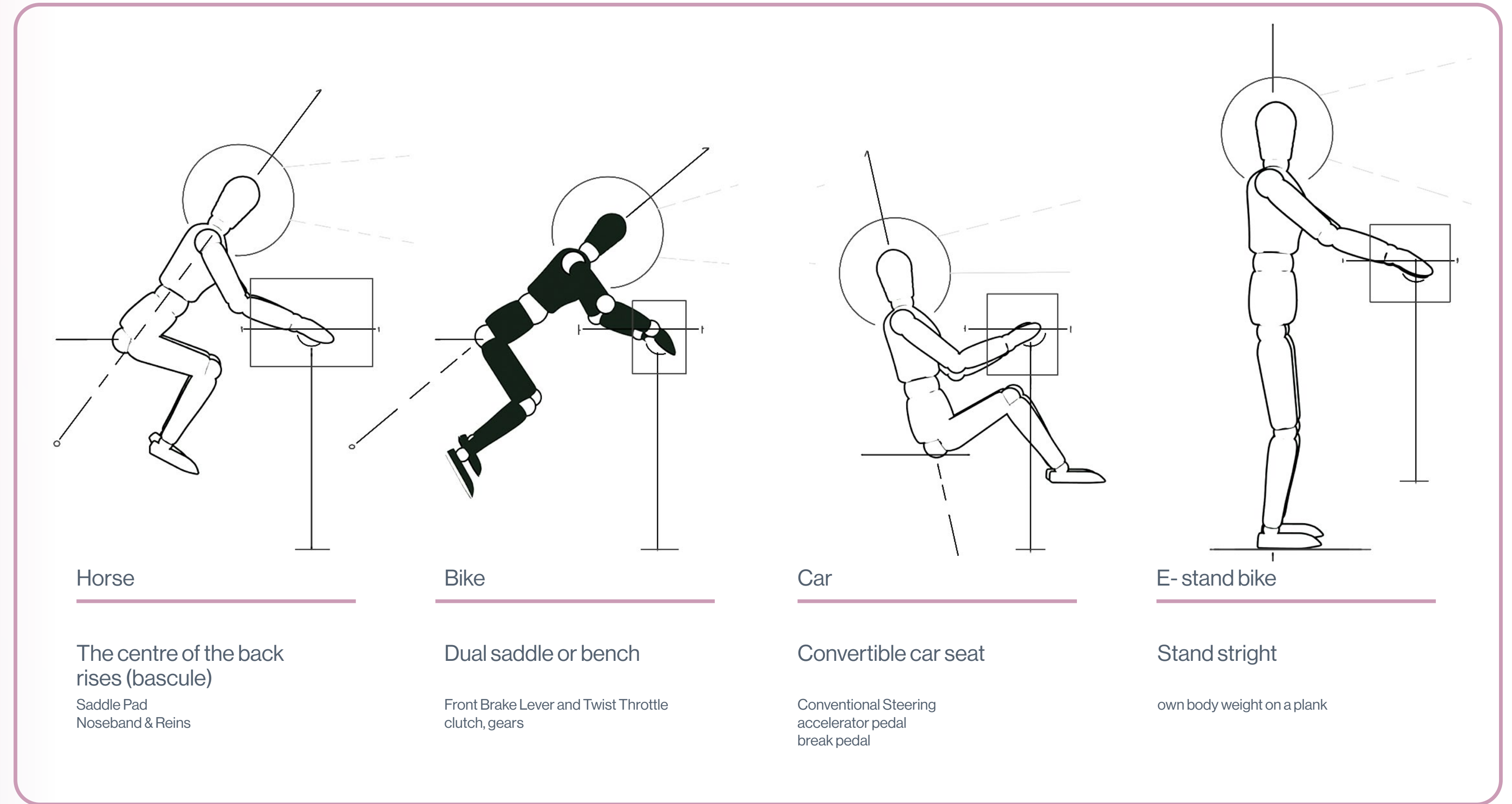
Angular data/ detail dimensions



proposal following zero gravity

'Application of Ergonomics in different models'

Physical point of transfer



Physical point of control

freedom

experience

Requirements

Experience

Two major influencing aspects which work together as action and re-action in a deeper level on the cognitive cortex.....

- Point of contact
- Point of control

Proprioception

/k n tr l/

the power to influence or direct people's behaviour or the course of events.

control.

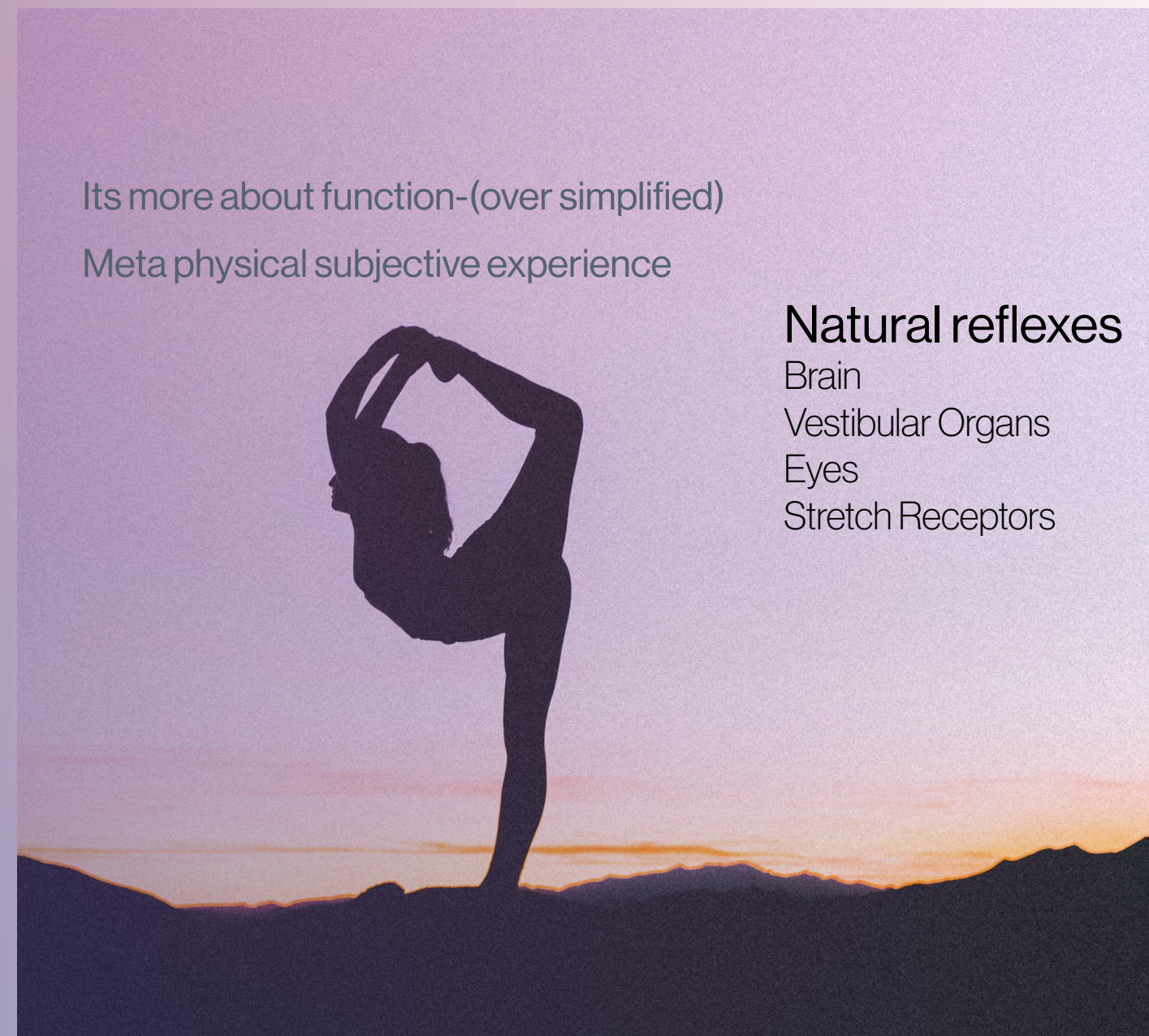
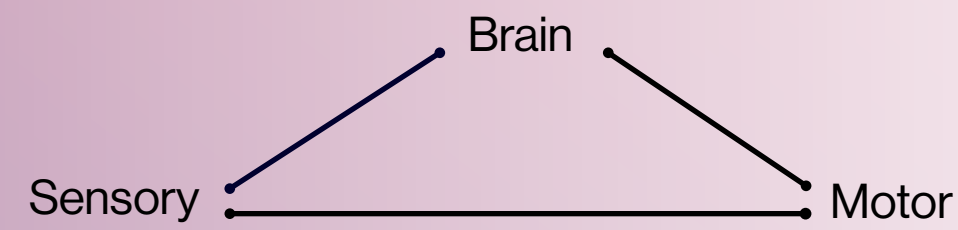
Design Concept

A new driving transportation experience giving users unique immersive interactive controlling joy. To achieve this, the user needs an intelligent, reactive companion with the new high sensitive performance or tactile control by following human anthropology.

This can unlock a new dimension of driving.

- Timeline 2050
- Autonomous levels 5 & 4
- Reintroducing true joy of control
- Intuitive and incorporative

FMP Insights



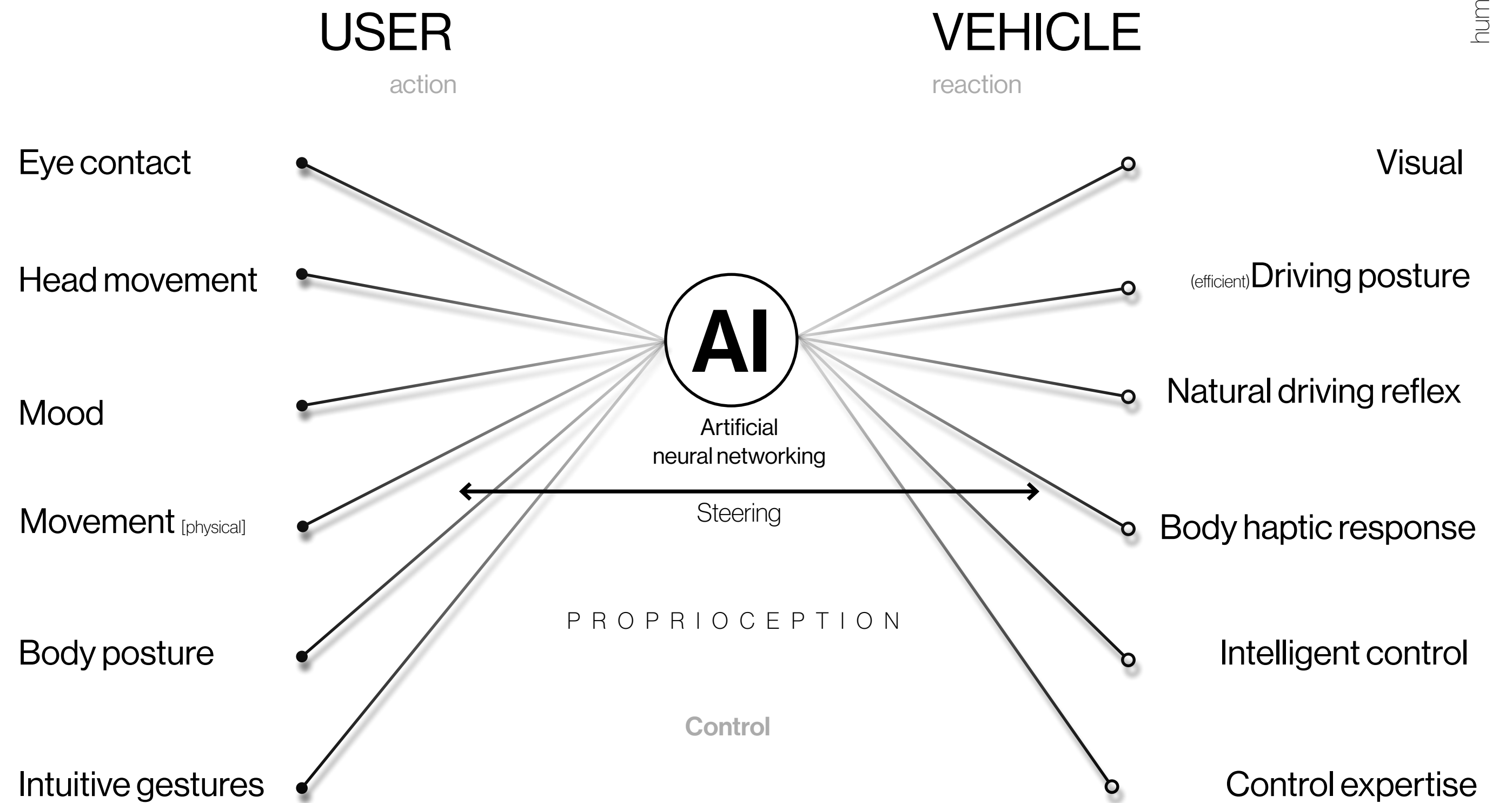
Its more about function-(over simplified)
Meta physical subjective experience

Natural reflexes

- Brain
- Vestibular Organs
- Eyes
- Stretch Receptors

intuitive & proprioception body's ability to sense movement, action, and location

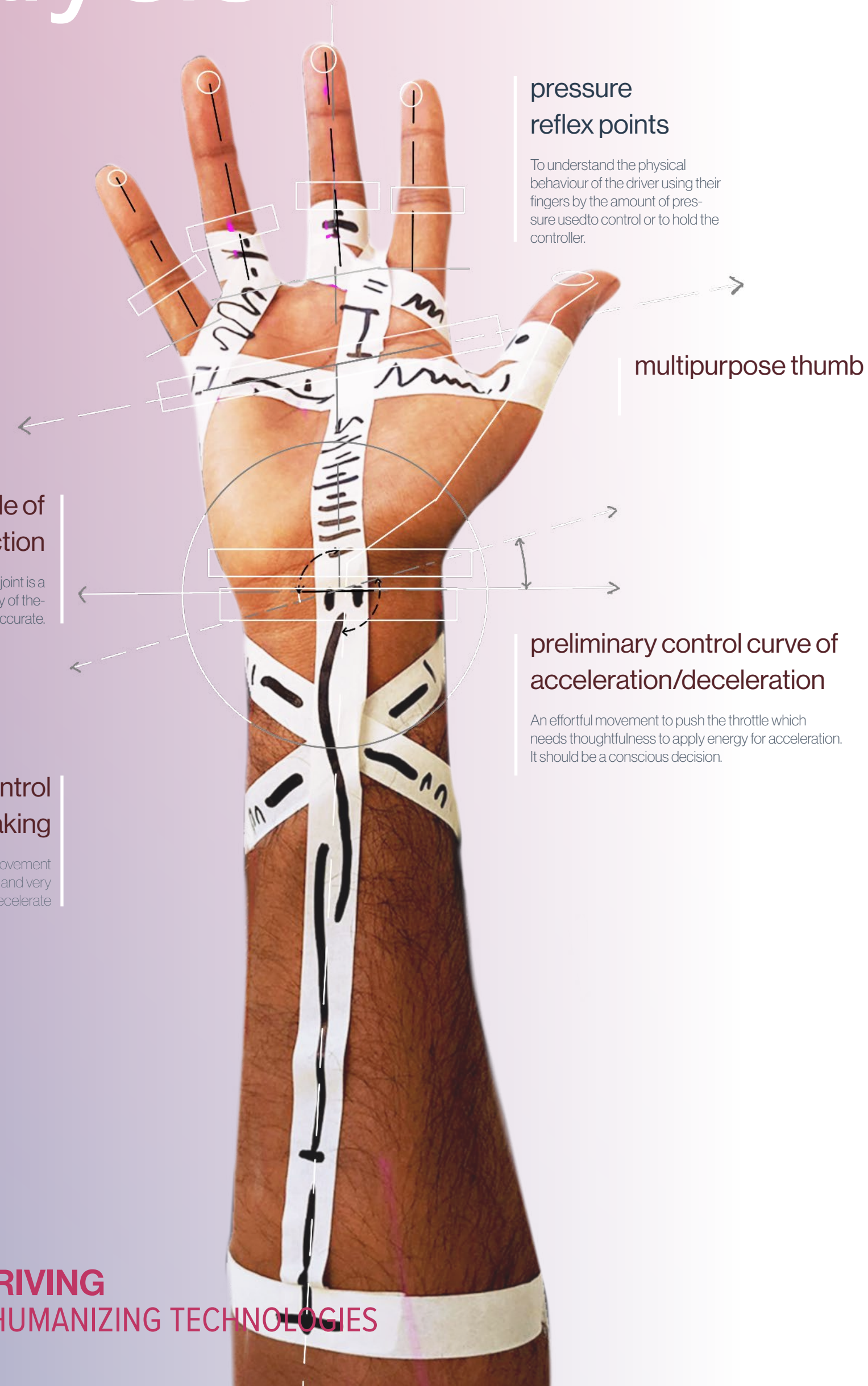
Action and Reaction



humanizing technology

Analysis

Prototype



pressure reflex points

To understand the physical behaviour of the driver using their fingers by the amount of pressure used to control or to hold the controller.

multipurpose thumb

circle of direction

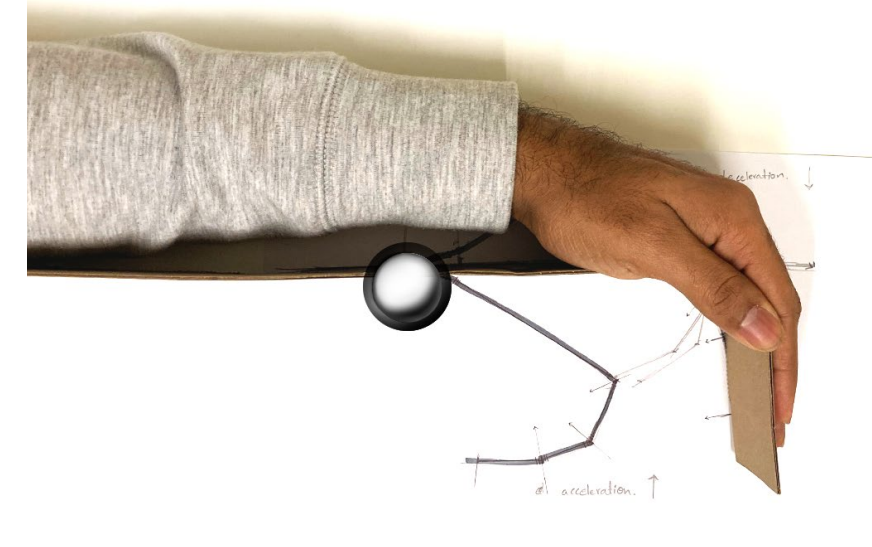
The angle of the curve at the wrist joint is a natural flow of directing the trajectory of the vehicle and this movement is very accurate.

preliminary control curve of acceleration/deceleration

An effortful movement to push the throttle which needs thoughtfulness to apply energy for acceleration. It should be a conscious decision.

secondary control curve -breaking

A fast reflective arc of hand movement which is incredibly fast, safe, and very intuitive to break and decelerate



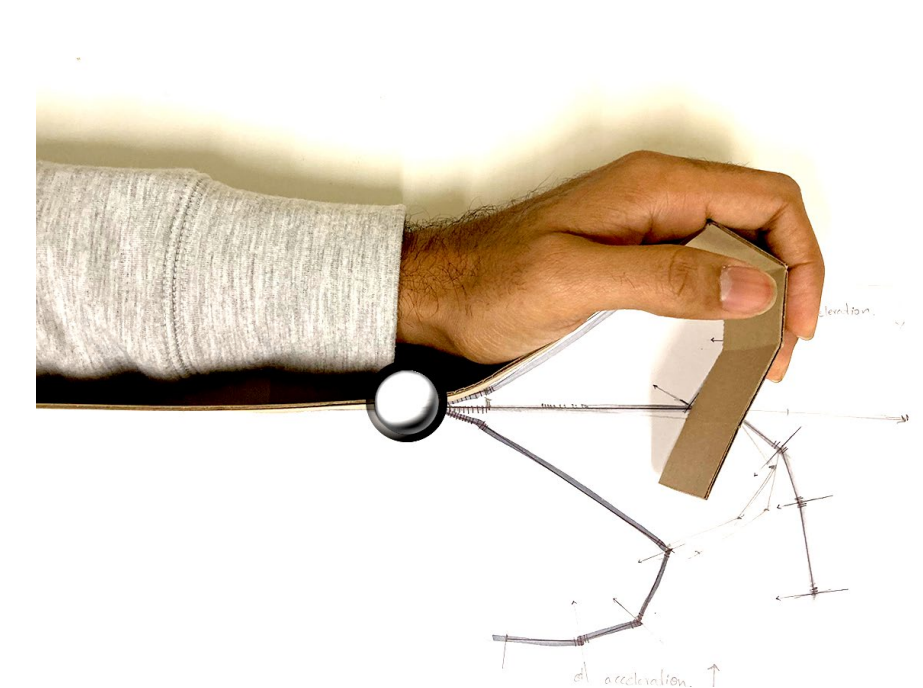
Neutral

A 45 degree angular twist is the natural rest position of the hand. This position is most comfortable and allows a quick response time



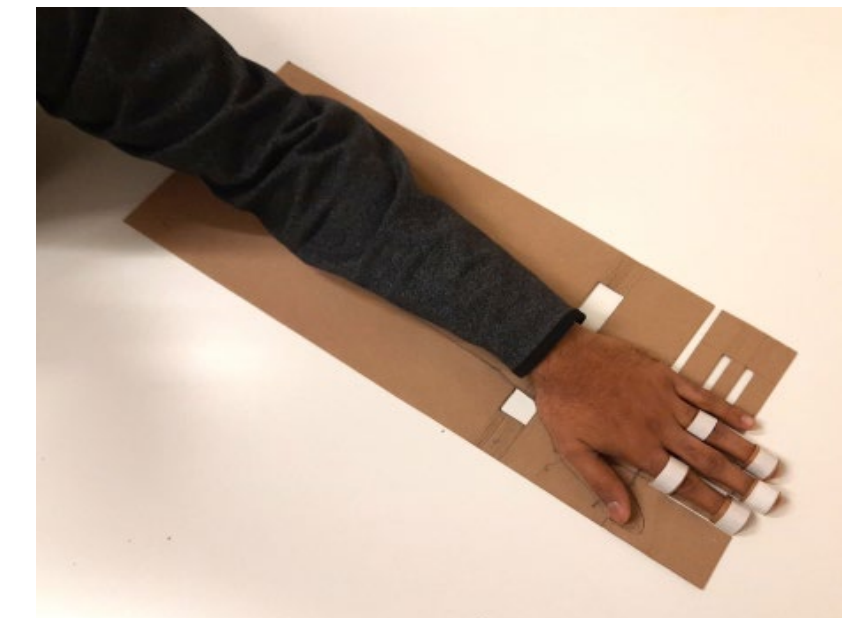
Acceleration

The act of acceleration should be a conscious effort, stretching the hand forwards, with AI



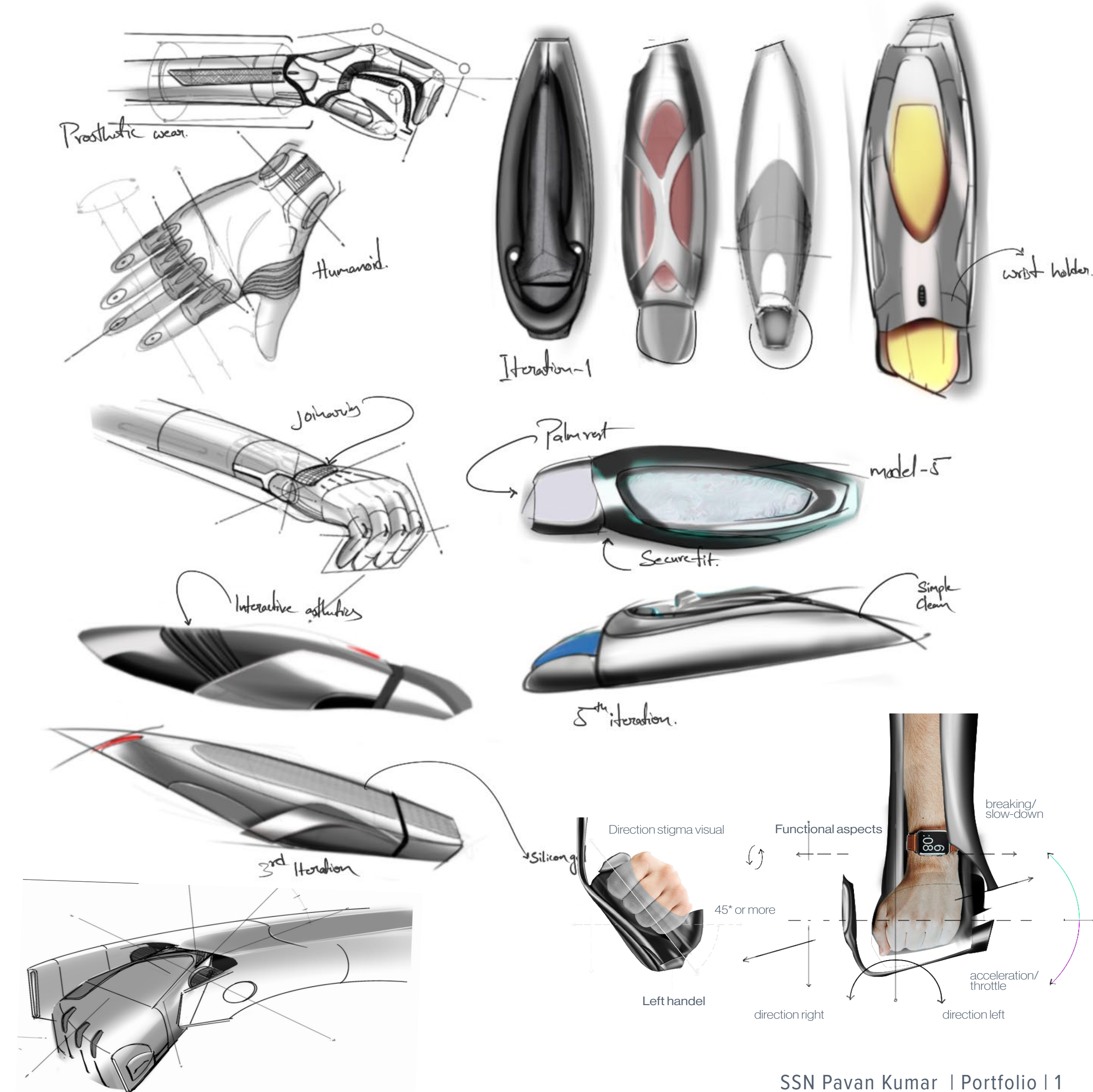
Breaking

The quickest action a human can perform is a time of reflection or reaction its lightning speed and breaking need to pull wrist all the way back as a natural reflex reaction user need to think too much but just follow their natural instincts.



Analysing the manipulative functions and the great versatility of movement, precision of control and flexibility of hand.

Design Ideation



proprioception

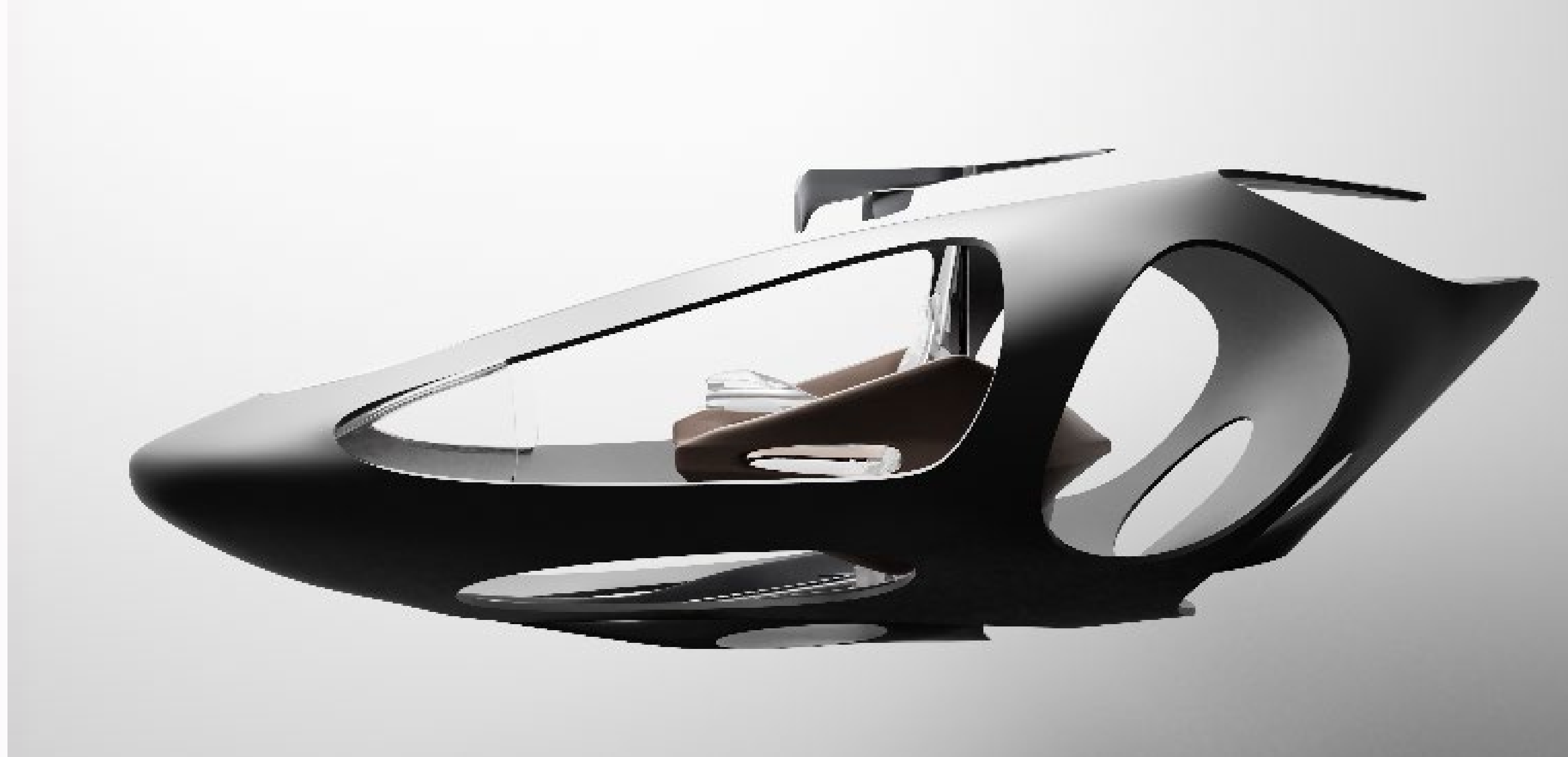
consciousness

natural tools

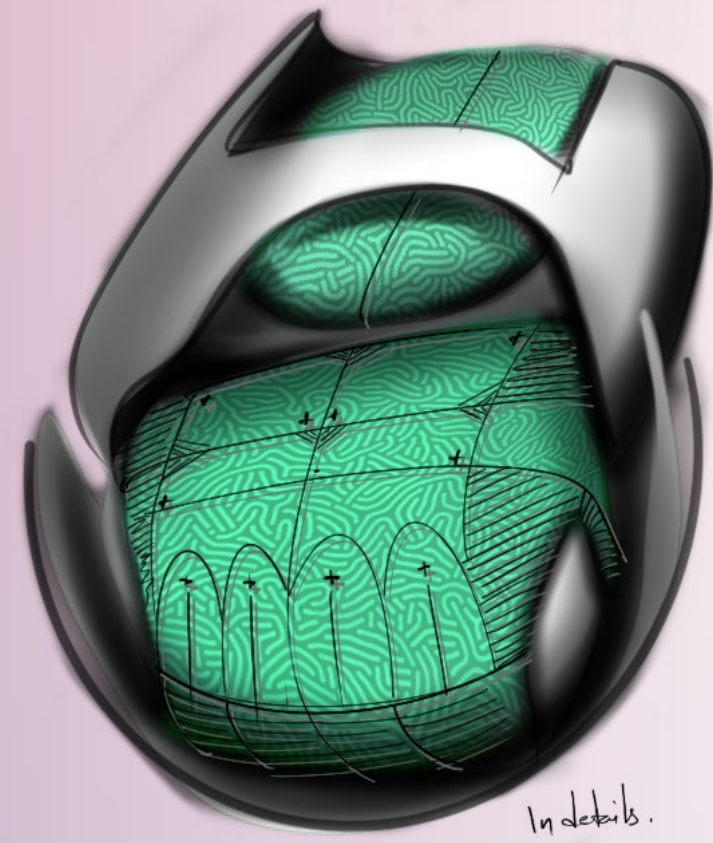
FMP Insights

purely intuitive.

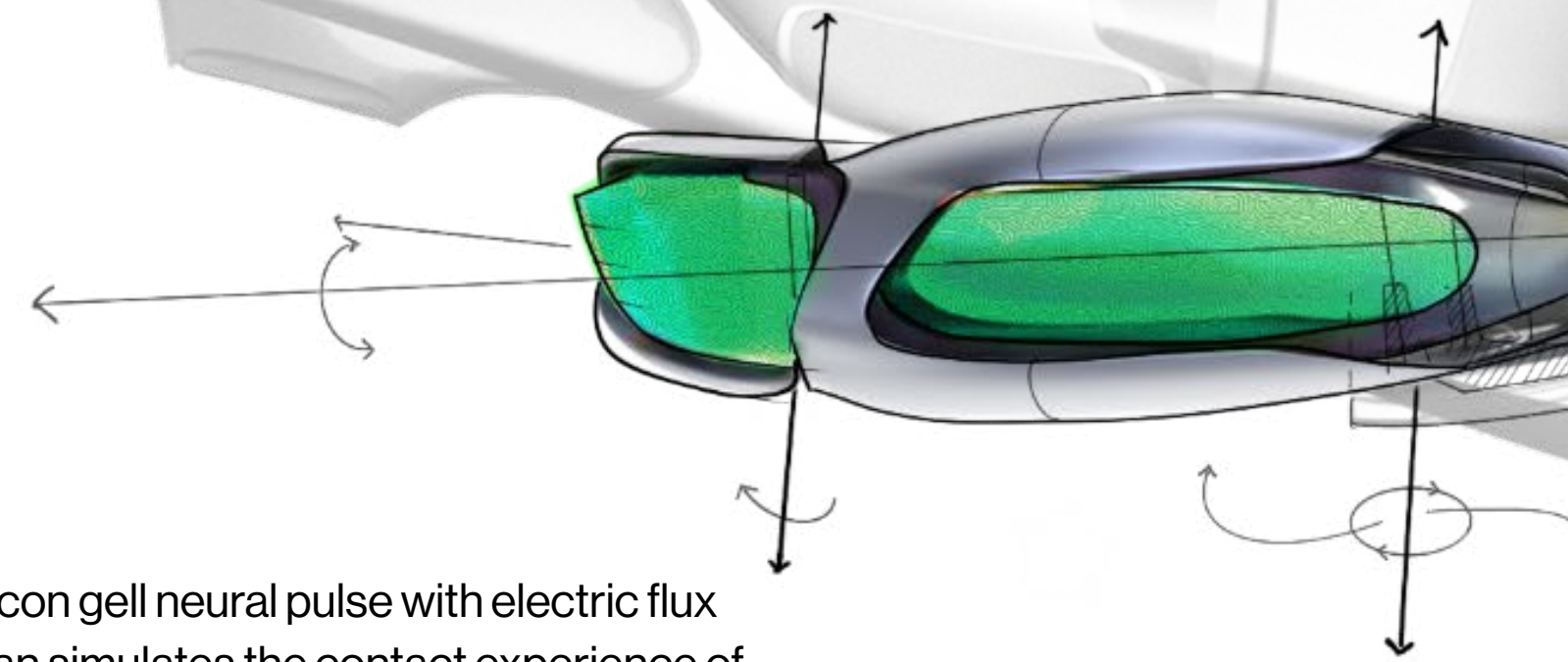
- The vehicle's reaction is personalised to each user using AI
- AI has the capability to learn and analyse its user's actions, both mental and physical, and react completely intuitively accordingly



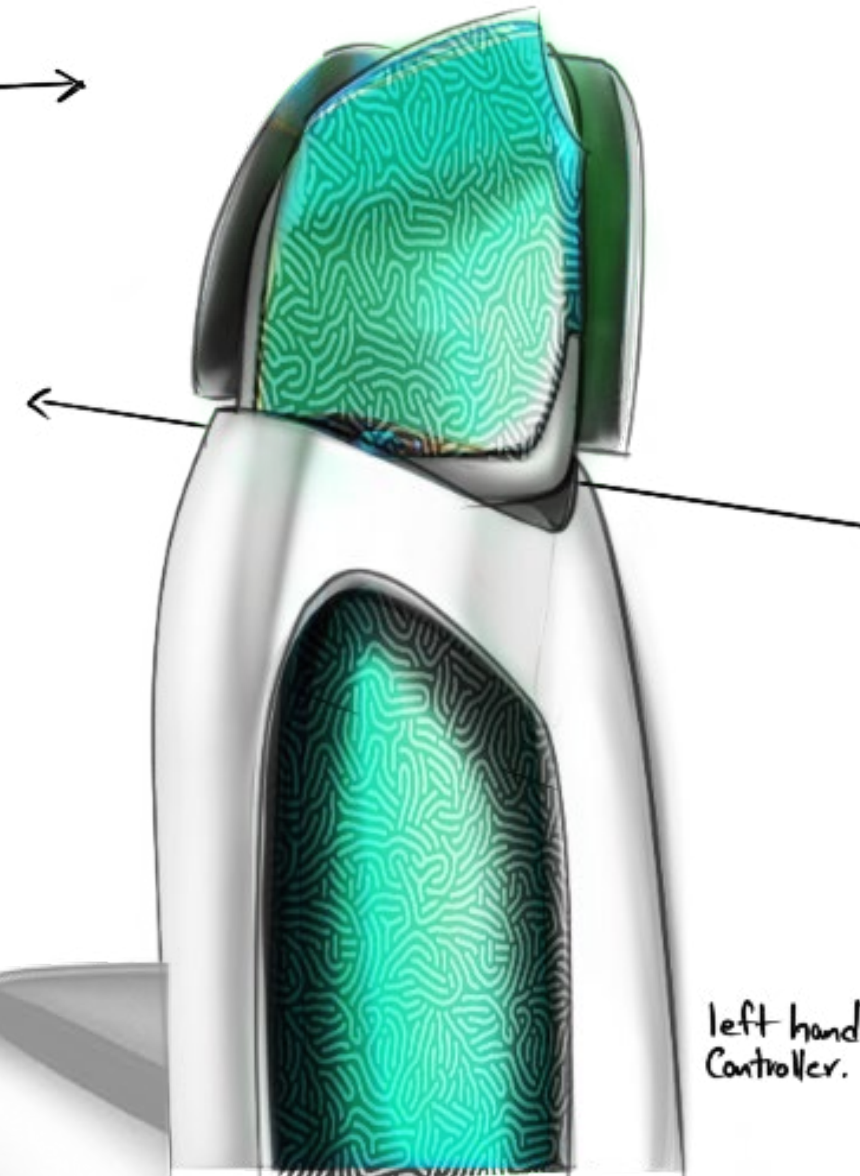
Functional design



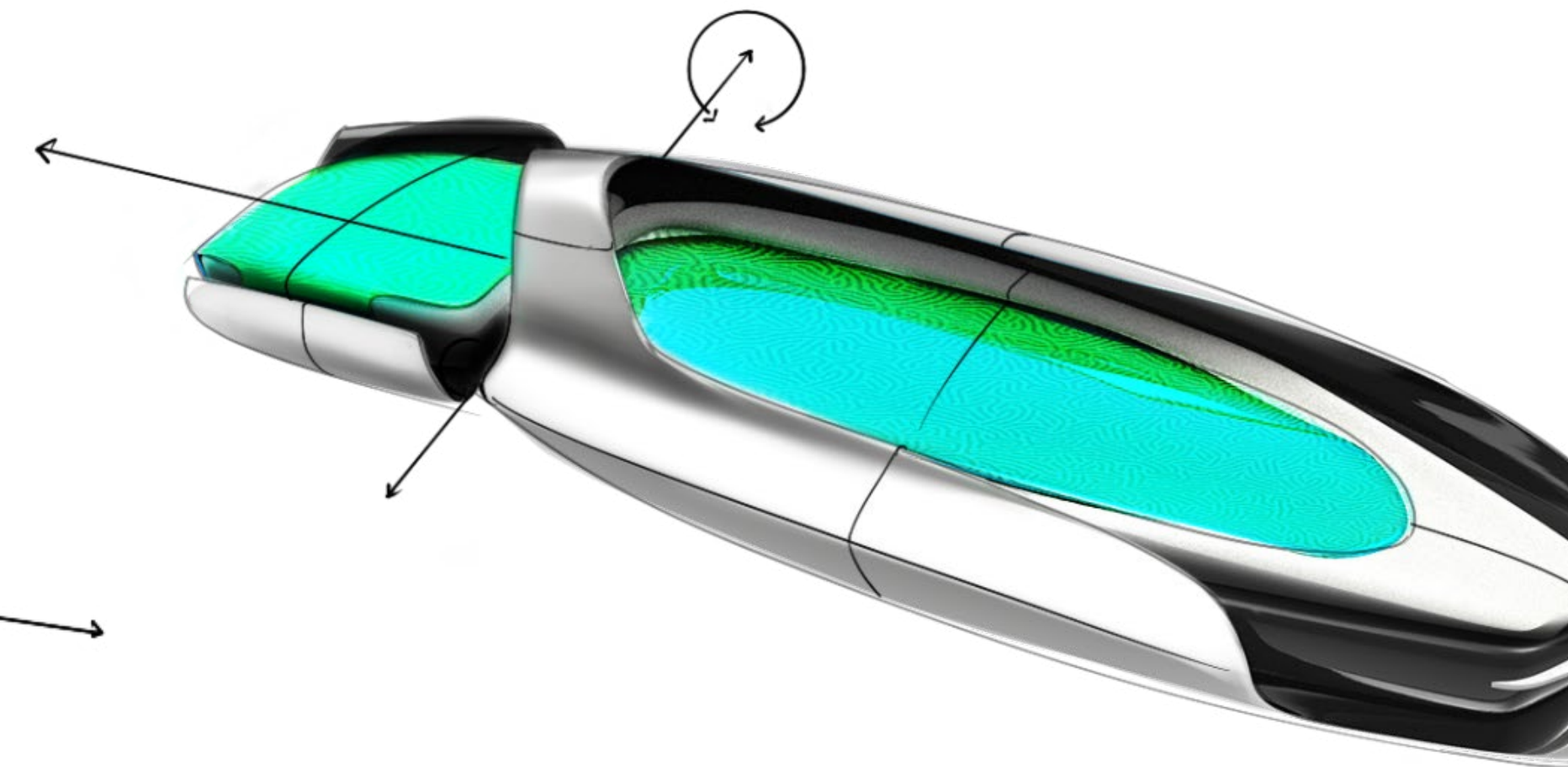
impulse organic silicon gell neural pulse with electric flux sheet skin which can simulates the contact experience of the living entity.



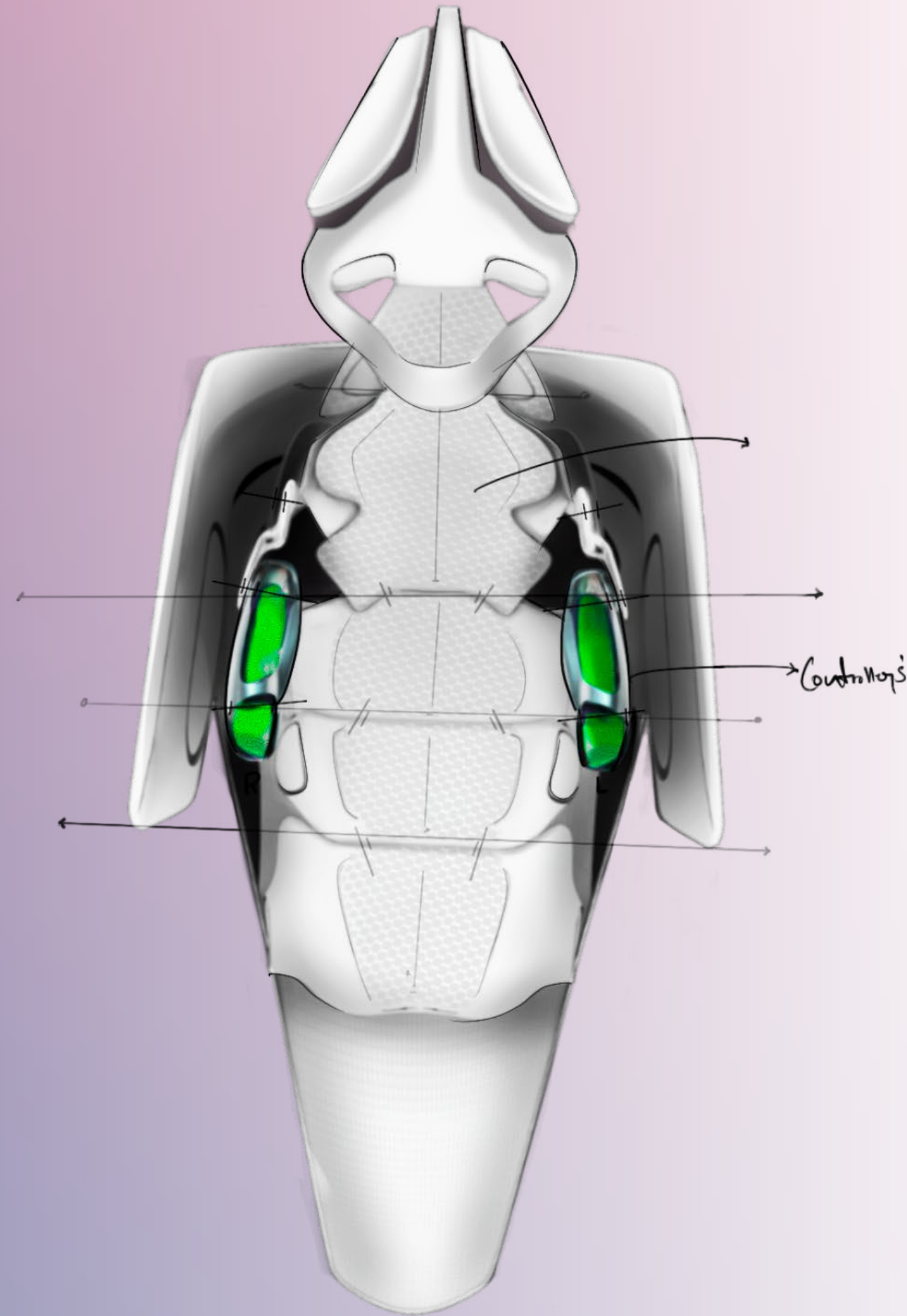
bionic.



left hand Controller.



Functional design



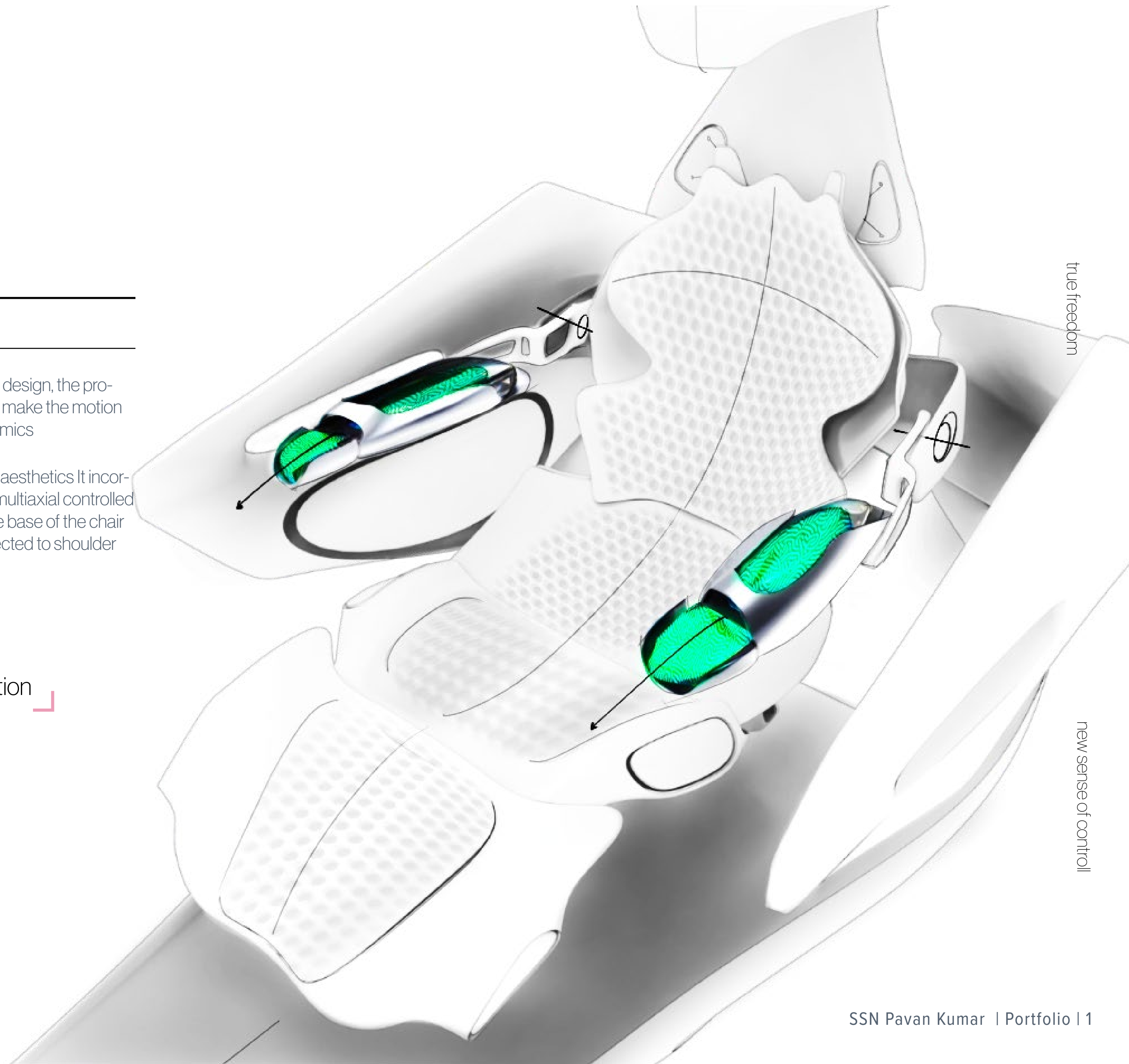
Natural flow.

multiaxial connector

working around human-centric design, the process of freedom is important to make the motion nearly to nature of human dynamics

Without interrupting the design aesthetics It incorporated complex and efficient multiaxial controlled joints into the controller from the base of the chair resembling human hand connected to shoulder joint.

┌ Degree of freedom notion └



true freedom

new sense of control

4th dimension.

Purely intuitive.
A lively sense of interaction with the vehicle controls

A futuristic car interior with a hand on a glowing green control panel. The hand is resting on a sleek, metallic-looking control panel that is illuminated with a vibrant green light. The background shows the blurred interior of a car, suggesting a high-tech, modern driving environment.

4th dimension.

Purely intuitive.

A lively sense of interaction with the vehicle controls

4th dimension.

interactive controls.
the future concept of manual driving

4th dimension.

Purely intuitive.
A lively sense of interaction with the vehicle controls

