



FORYU DESIGN

Design for you

Product Design

Commercial Design

Product Video

UIUX Design

ABOUT FORYU

FORYU is the same as giving in Chinese and is a verb dedicated to design. Through design, it gives life to space, gives meaning to life, and gives value to products.

FORYU has rich development experience and professional design capabilities. Through a solid design process, it creates novel blue ocean innovations.

The difference is that FORYU DESIGN has a one-stop service organization, from product development, packaging design, manufacturing, assembly and packaging, Internet marketing and export have rich experience and professional knowledge.

"setting goals and planning the process" is the interpretation and core concept of design. Through design, we can accurately achieve the goal, conform to the user's habits and experience, and create a perfect life experience.

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Website



Youtube



E-mail



Product Design

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Product Design

Product design is the strength and main service of FORYU DESIGN. It extends various designs and services centered on products, such as commercial design, assembly and packaging, crowdfunding, and export sales.our product design is mainly based on Plastic injection, the reason is because we prefer to show the beauty of design through curved surfaces and free shapes, but whether it is metal processing, wood products, or other materials, we have relevant resources and capabilities to design.

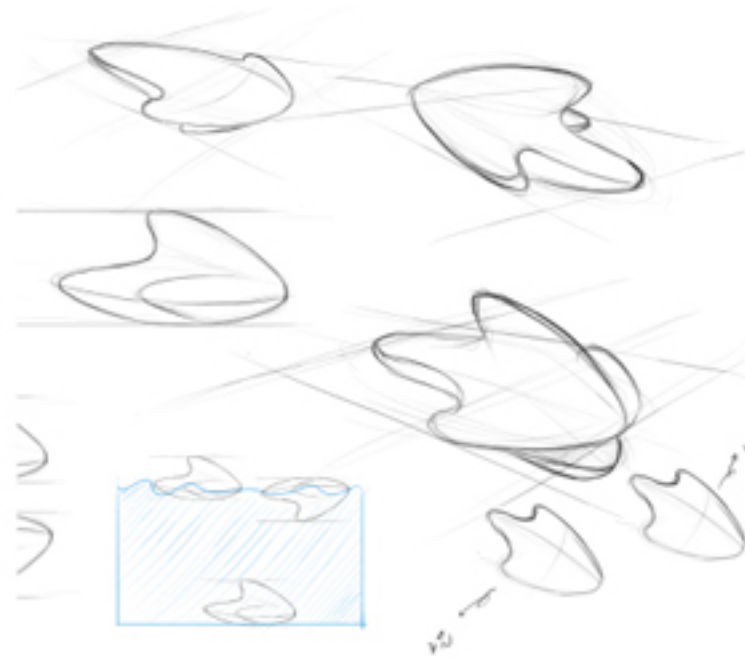
Before product design starts, we will research and analyze user needs according to your needs and market positioning, in order to obtain design points, and then brainstorm, design proposals, and 3D modeling with the design points as the core. Then make and test the mockup according to the finalized product, and finally present the prototype to you. This is our standard process, if you only need part of it, we can customize it for you.



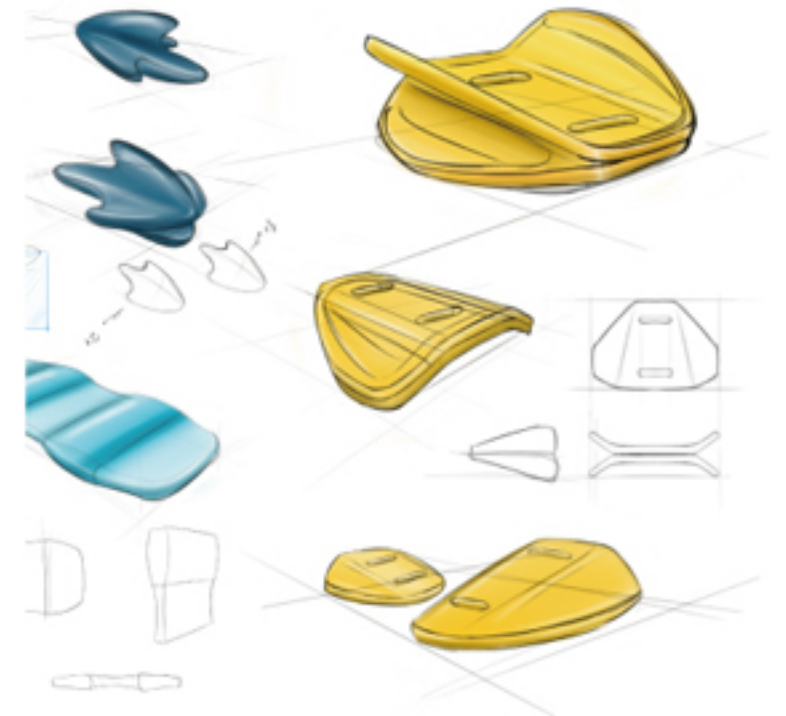
Design Requirement



Research



Brain Storming



Design Proposal

Docking Lamp	05	Gorecord	47
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3D Modeling



Mockup



Testing



Prototype

Docking Lamp

Design Concept

Let integration create more space and possibilities.
We combined Docking Station, Desk lamp ,
Ambient light & Night light into one,
and recreated a new way of using desk lamps.

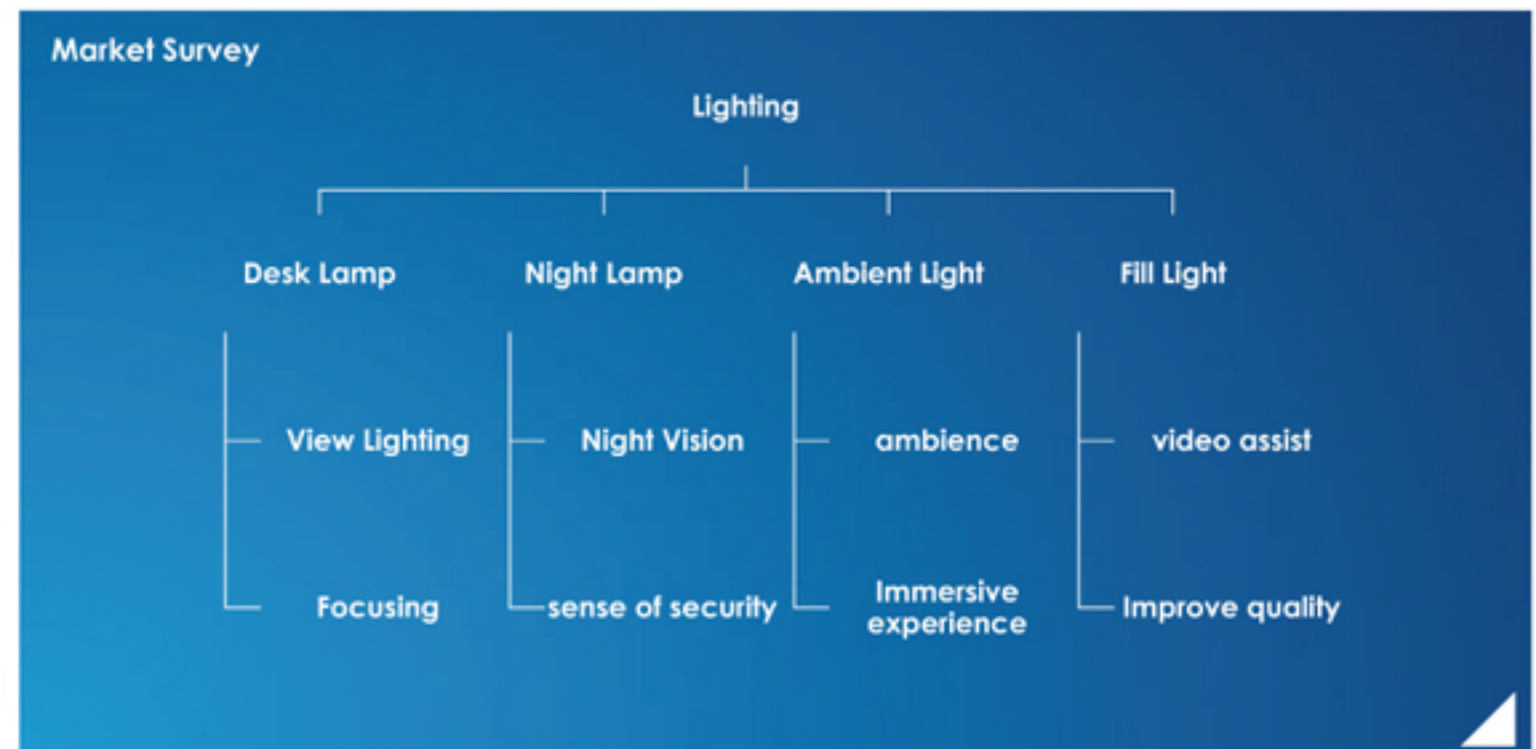


Design Research

Light is an indispensable existence in the world, because light allows us to see things, and it can also produce different psychological feelings through light.

Therefore, we conduct market research with lighting as the main axis, and the lamp market can be divided into four types: Desk Lamp, Night Lamp, Ambient Light & Fill Light.

According to these four types, we further analyze the function, practicability and user needs by means of cross analysis. Finally, we focus on Desk Lamp as the core of the design.

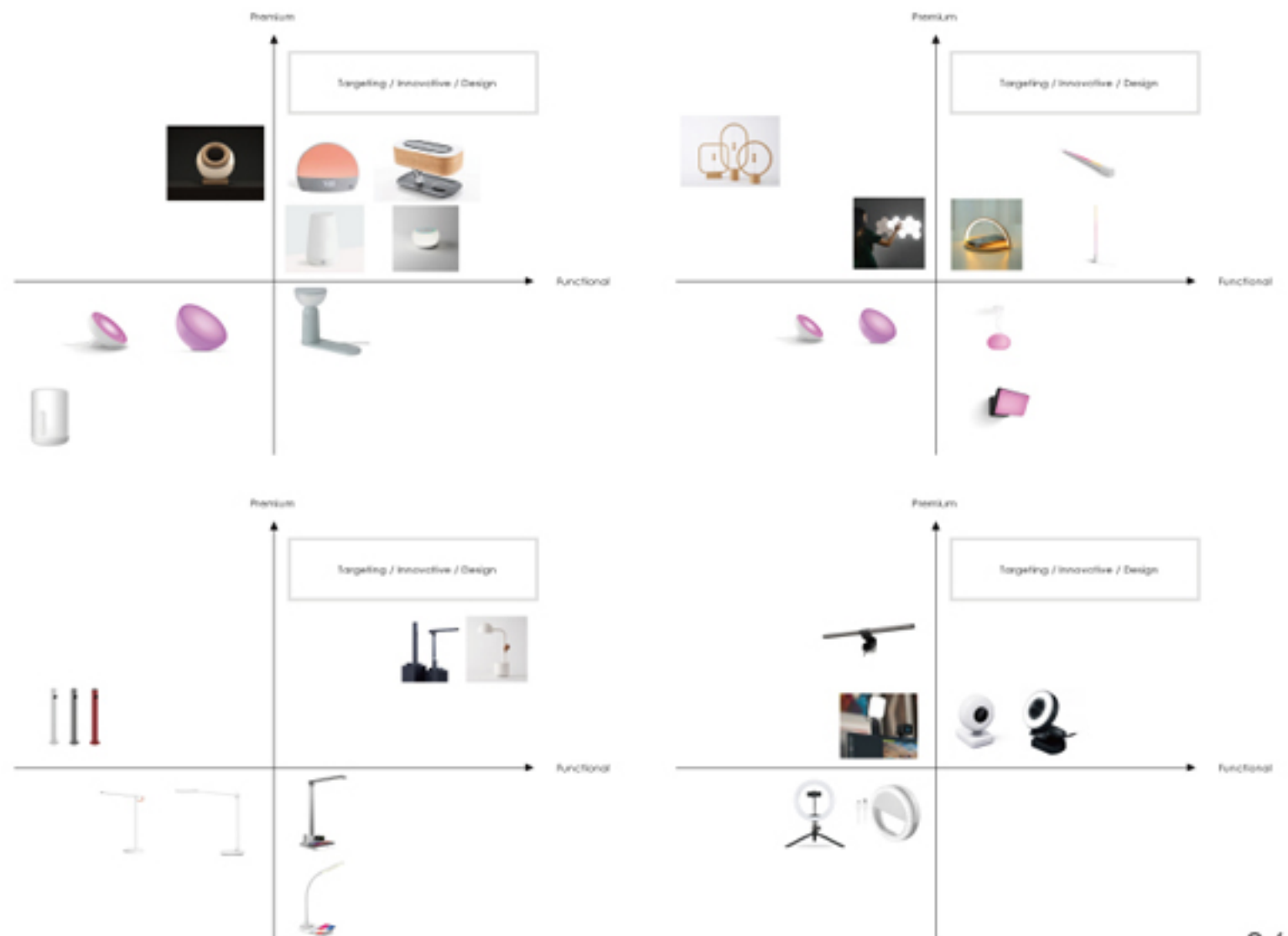


Design Point

Desk Lamp, as the name suggests, is a lamp used on the desktop, which may be a desk, a desk or a side table. However, after observing the user, the following requirements are known :

1. Reading needs
2. Use a computer or laptop
3. Increase the need for concentration

Therefore, we propose this concept based on the above design points - Docking Lamp



3D Modeling

First of all, we define the size for the basic needs of the table lamp. For the user's comfort and ergonomics, we set the height and lampshade length to 500mm and 400mm to facilitate reading needs.

Next, we will improve the demand for concentration, and the advanced design is the function of Ambient Light. In addition to improving concentration through indirect lighting, if it is on the desk in the room, it can also be used as a Night Lamp, just close the lampshade vertically. , you can achieve multi-functional use.

Finally, for the needs of computer or laptop use, we combined the desk lamp with the Docking Station, whether it is the use of dual monitors, the reading of pen drives or external devices can be integrated through the Docking Lamp. In addition, we do not waste the space above, and integrate the function of wireless charging, which can charge your mobile phone or wireless earphones.





Dual screen use

The use of dual monitors is a very common need and application, however existing desk lamps can only illuminate one side



Ambient light mode

It can be converted into an Ambient Light by folding vertically, and users do not have to buy more lights to use.



Single screen use

Even if you only use a single screen, such as laptops and computers, you can still assist in office work.



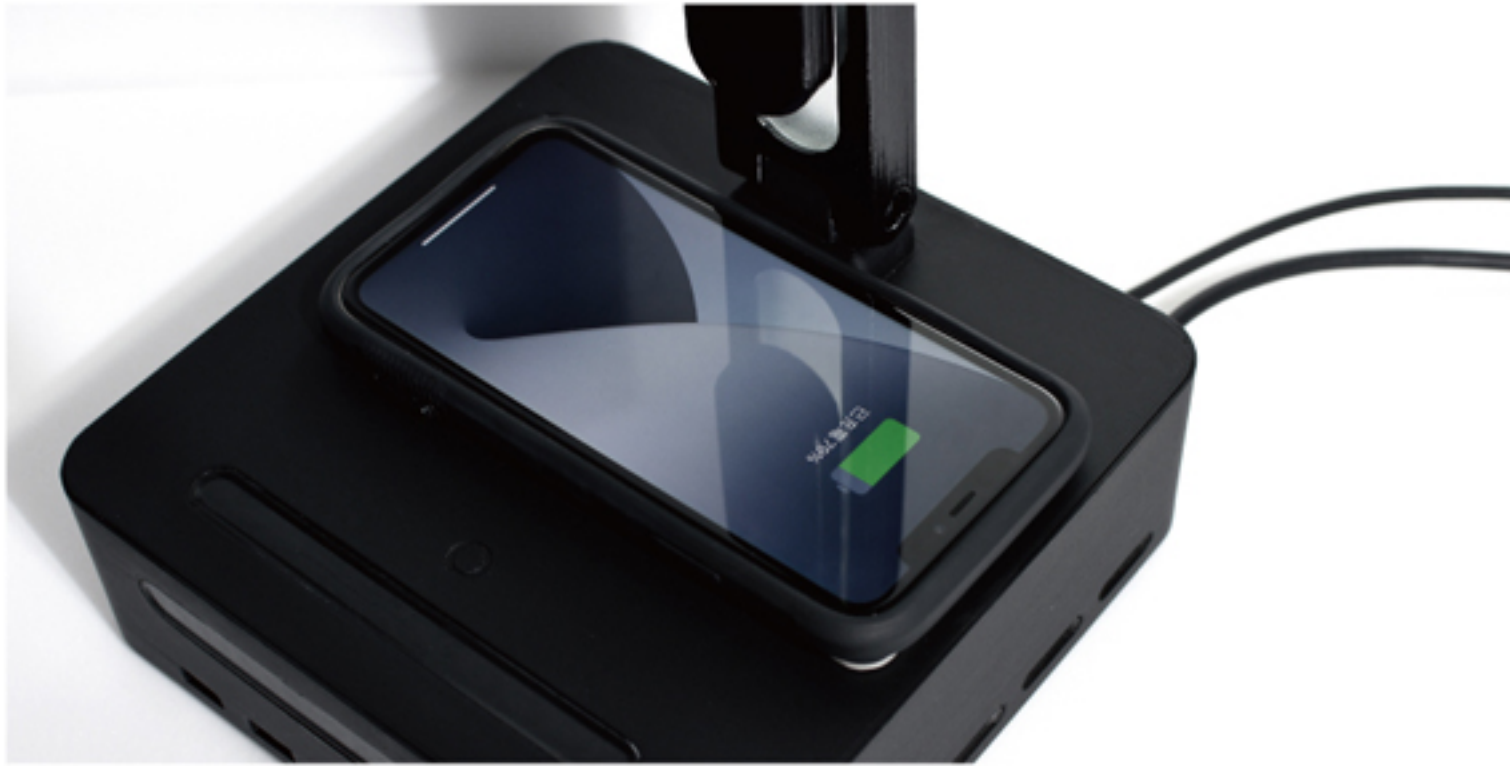
Angle fine-tuning

Considering the user's feeling, the angle of the lampshade can be adjusted to avoid direct exposure to the eyes.



Prototype

Use 3D printing technology and laser cutting to make the assembled parts of the Docking Lamp. In addition to the detailed mechanism of assembly, we also add the characteristics of shared molds to reduce production costs and create profits.



Qi Charging

Use Prototype to actually test the induction and speed of wireless charging.



Brightness and color temperature adjustment

Adjust the color temperature and brightness by touching and sliding.



Data reading and external devices

External requirements such as cameras, hard drives, special devices, etc.



Connect computer and laptop

Finally, we tested connecting it to a computer and everything worked.



Learning needs

Whether it is a social person, a college student, or even a primary school student, learning through computer has become a necessary way and channel in modern life, not to mention work.

Docking Lamp is of great help to the learning environment. In addition to the lamp that provides illumination for reading and the improvement of concentration, the design of Docking Station allows students to integrate reading materials and external devices such as keyboards, cameras, speakers, etc. Manage and keep your desktop clean and organized.



Working needs

The use of dual monitors is necessary and convenient for professionals, such as software engineers, designers, and even analysts.

In addition to being a dual-screen integrated device, the bigger change of the Docking Lamp lies in the position of the light, as long as the lamp shade is rotated, it can be in the middle position, evenly illuminating the space on both sides, which not only improves the work efficiency, but also improves the work efficiency for long-term viewing of the screen. users also have some protection.



Ambient Light

Ambient Light is not only the creation of atmosphere and the improvement of concentration. In fact, under the trend and popularity of HomeOffice, when you work from home, most of them work or study on the desk in the room.

However, the space on the desktop is limited. In addition to the placement of computers, there may be desk lamps, night lights, Docking Stations, and even wireless charging stations to place mobile phones.

The Docking Lamp combines all the needs into one, and only needs one to achieve all the functions.



Description Video



Target Series



Design Concept

A good design not only solves a single problem, but also improves the user experience of the whole process. Even though the Tablet is convenient and lightweight, there is no dedicated space for him when it is idle, so we decided to improve this problem and add the use of it, storage and charging experience.

Design Research

The use of Tablet is becoming more and more popular, but why ? Whether it is because of the development of technology or the improvement of environmental protection awareness, the use of Tablet can achieve the functions of a laptop, but it is more convenient to carry, even lightweight, and the touch function is even Make document signing and designer drawing more convenient and fast.

However, there is no suitable space for Tablet charging, use and storage in the existing market, and it can only be placed on the table rudely. Therefore, we use Letter Tray as a carrier by observing and thinking about the situation and needs of use, and redesign a set suitable for Tablet. Stationery set for modern office.

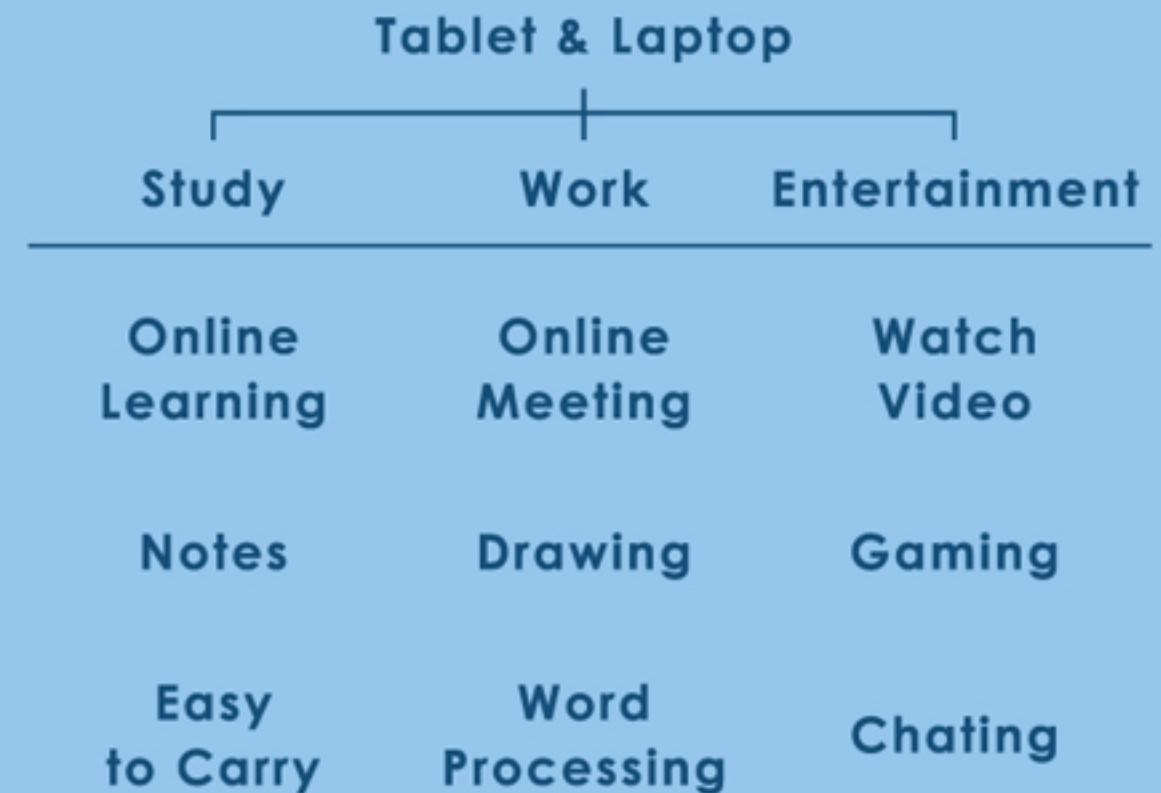
Design Point

Through observation, it is found that the use of Tablet is divided into study, work and entertainment. However, these three use situations have the following problems and needs :

1. Storage
2. Angle Stand
3. Charging
4. Work Assistant

Therefore, we focus on these four elements to further design the new Letter Tray series, which we call the Target Series.

USE CASE



USER NEEDS

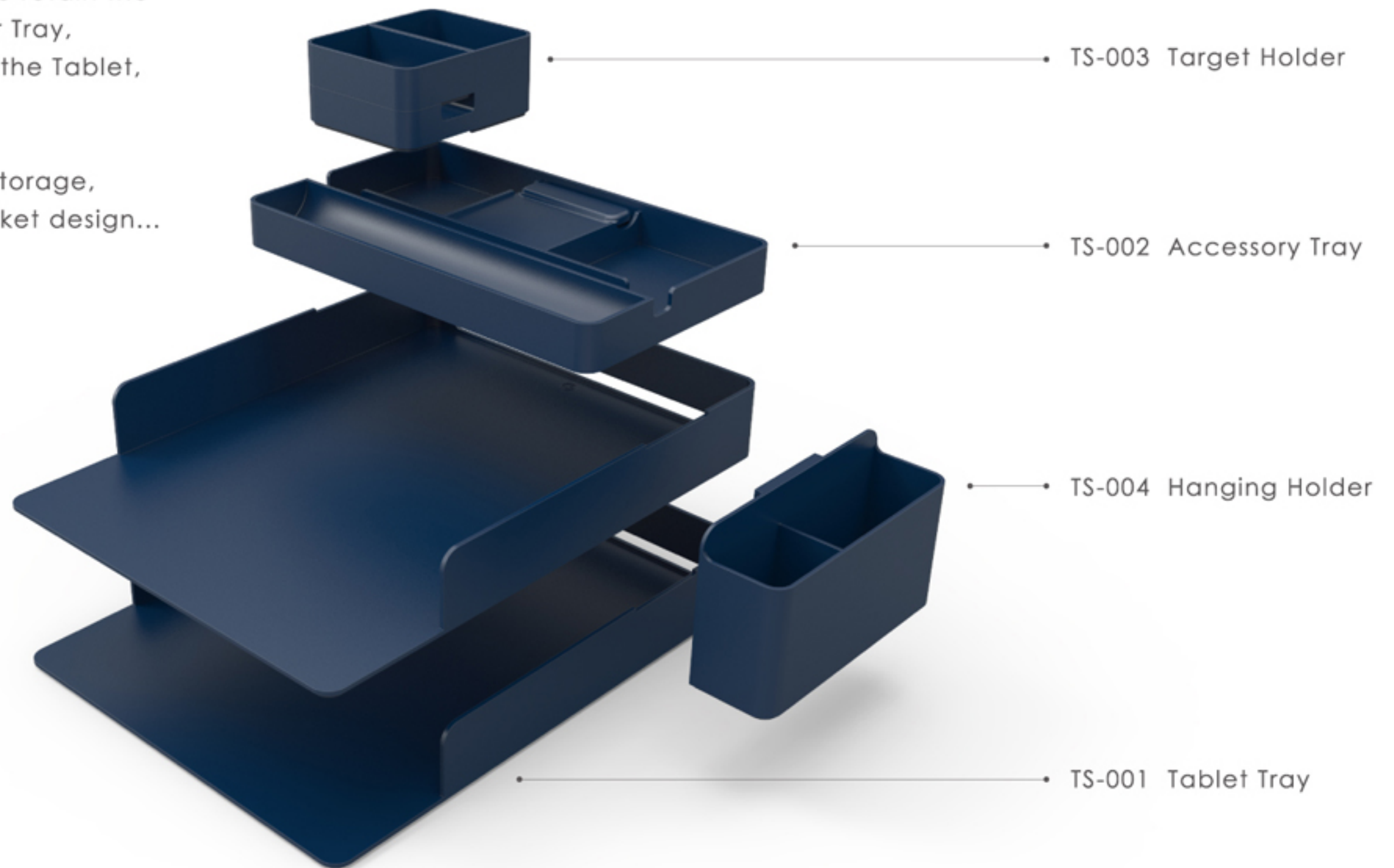
-
- ```
graph TD; Root[User Needs] --- 1[1. Storage]; Root --- 2[2. Angle Stand]; Root --- 3[3. Charging]; Root --- 4[4. Work Assistant]
```
1. Storage
  2. Angle Stand
  3. Charging
  4. Work Assistant

### 3D Modeling

Target Series is mainly composed of four parts, namely Tablet Tray, Accessory Tray, Target Holder & Hanging Holder.

Every part needs a reason for its existence. For example, in addition to being able to charge the Tablet Tray, we also retain the stackable feature of the Letter Tray, so that you can not only store the Tablet, but also classify different files.

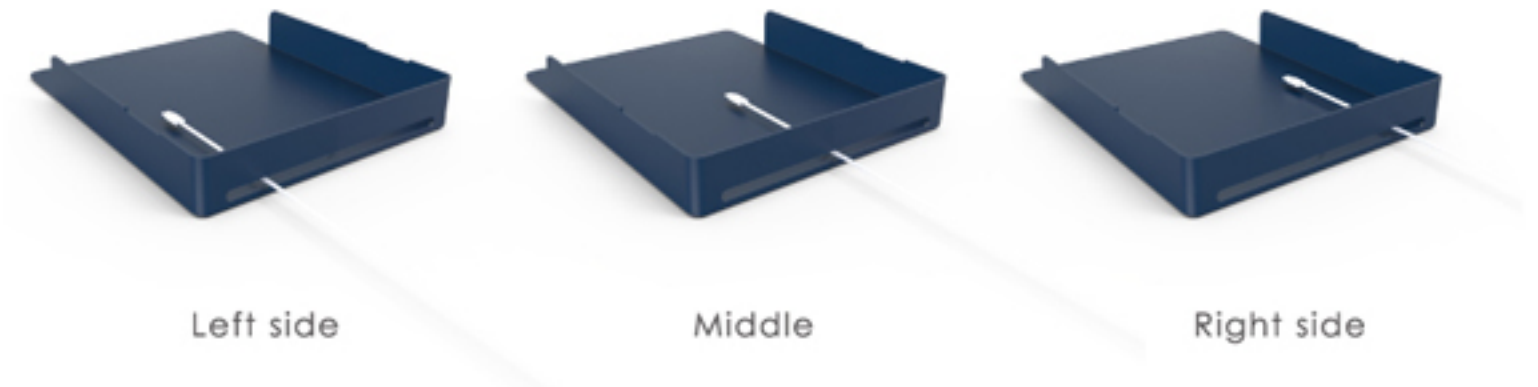
Accessory Tray In addition to storage, he also has a multi-angle bracket design...





### Series combination

The composable features not only save space, but also make the overall integrity and applicability more comprehensive.



### Charging Design

The charging hole design can be used on both sides or in the middle, so there will be no problems with different brands.



### Angle Stand

The Accessory Tray is designed with an angle bracket in the middle. There are four angles that can be adjusted, which are 50/60/58/75 degrees.



### Changeable storage box

The Target Holder looks like a small storage box, but in fact, it can be used as a mobile phone holder and pen holder through reassembly.



## Prototype

In the production process of Prototype, we use a large-size 3D printer to print to maintain the overall integrity. After printing, it is filled with soil and polished to different degrees, and finally painted and dried, so that Prototype is the closest to reality. The way the product is presented.

Because we believe that getting as close to the actual product as possible can uncover details that are easily overlooked.







### Charging design

A good design does not lie in its complexity, but in surprising functions through simple changes.



### Storage and protection

Finally, we attach a piece of EVA to the finished product for protection.



### Angle Stand

Accessory Tray's angle stand can be used not only for tablets of all sizes, but also for mobile phones, allowing you to watch videos or video conferences at the most comfortable and convenient angle.





## Target Holder

The feature of Target Holder is that it has two types, namely storage box and pen holder.

In the form of storage box, it can be used as storage for small items, such as wireless earphones, erasers, staplers, etc.



As long as it is rotated and assembled through the front parts, it can be transformed into a pen holder.

In addition to the storage of the pen, it can also be used as a mobile phone holder. It is not only easy to operate, but also easy to carry. Many users will carry it in their backpack and use it quickly when needed.



## Hanging Holder

It seems simple, but it is widely used and easy to use! Hanging Holder is installed on both sides of the Tablet Tray, which can not only store stationery, but also accessories such as charging cables and mice.

In addition, as long as the thickness is 2mm, it can be easily hung up! You may ask what the thickness of 2mm is? Basically, as long as it is plastic injection or metal plate, it is below 2mm.

### Product Video

Advertisement / Description Video



### Crowdfunding

<https://www.zeczec.com/projects/target-series>





# Swimming Aids

Designing to make learning to swim easier.





## Foreword

According to the World Health Organization report, drowning is a serious and easily overlooked public safety threat. The drowning event kills about 372,000 people worldwide each year, resulting in more than 9% of the world's total deaths.

Therefore, in order to reduce the occurrence of drowning events, in addition to leisure sports, learning swimming ability should pay more attention to self-security concerns. Based on the above, the Ministry of Education incorporated the swimming ability curriculum into basic education in 2010.

## Design Research

In order to understand the assistance needed for teaching, this study firstly collects the background and foundation of swimming teaching in the way of literature discussion, and through the research methods of expert interviews, preliminarily sort out the problems and teaching status of swimming teaching.

Then use the field observation to record, further explore the learner's teaching interaction, teaching aid use and teaching curriculum. Through sorting and summarizing, it proposes data analysis and design guidelines as a reference and basis for design implementation, and two prototypes of swimming teaching aids are further designed to provide follow-up use and discussion to obtain relevant use feedback.

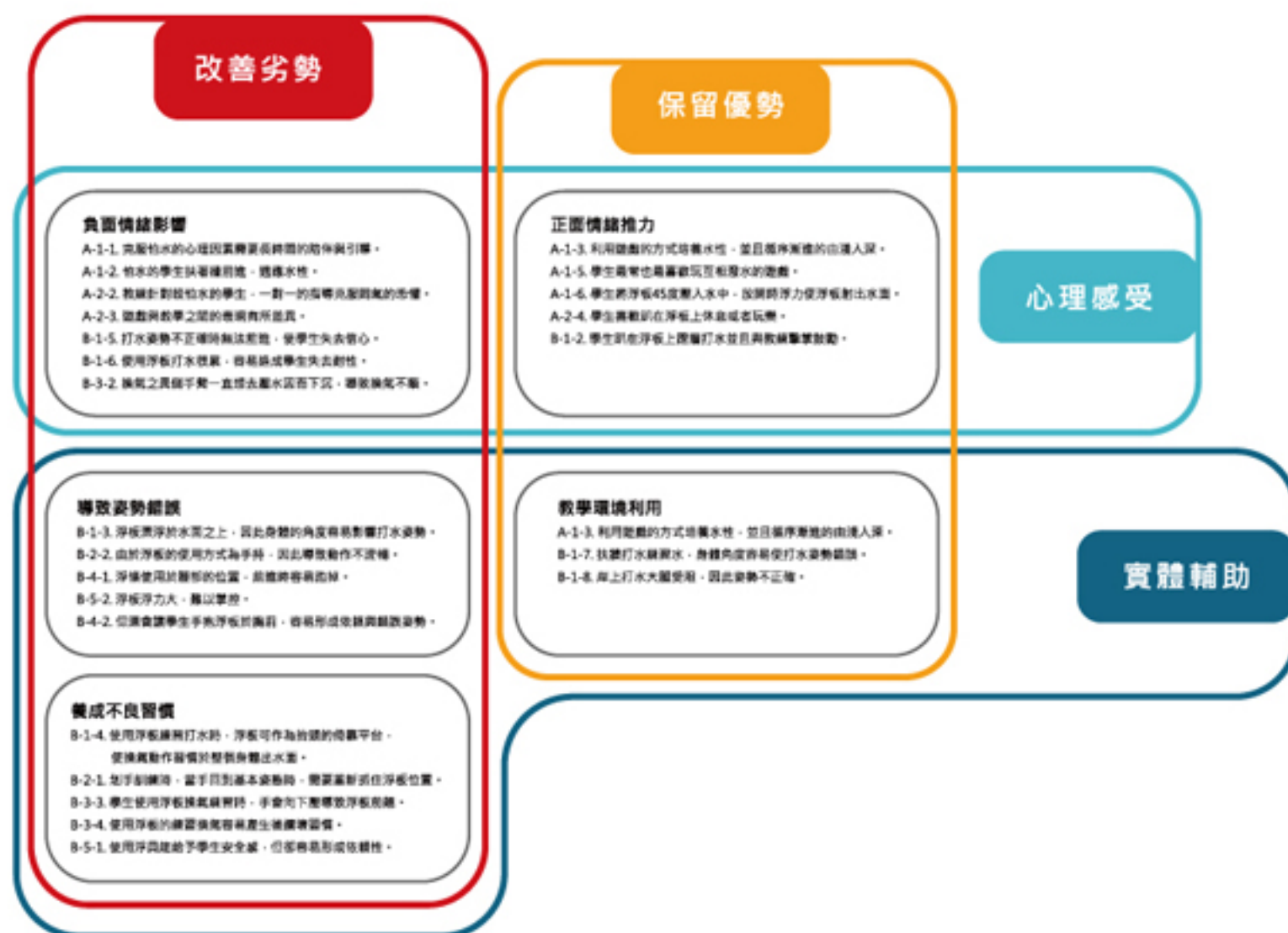




## Design Research

Through literature research, expert interviews and field observation, it is found that the learning process of swimming is divided into three stages, namely, familiarity with water, skill learning and ability improvement. The most difficult part for teachers or educators to overcome, the best way is to gradually overcome fear through gradual assistance.

Therefore, this research uses the KJ method to rearrange the problem points obtained from the interviews and observations to obtain the advantages that need to be preserved and the shortcomings that need to be improved.



## Conclusion

Finally, we will focus on the design of the floating board and the teaching chair, because these two are the most commonly used swimming aids in the teaching process and the easiest to change.

In the design points, there needs to be changes in the degree of assistance, as well as the diversity of applications, so as to provide for changes in learning and reduce students' dependence on assistive devices.

| 產品項目 | 現有產品優勢                                                                                                                                     | 欲改善之劣勢                                                                                                                         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 泳圈   | <ol style="list-style-type: none"> <li>配戴於腰部，給予身體浮力支撐。</li> <li>用於未接觸與怕水者適應水性。</li> <li>造型泳圈作為休閒娛樂使用。</li> </ol>                           | <ol style="list-style-type: none"> <li>降低泳圈翻覆的危險性。</li> <li>倘若翻覆亦可回歸原始狀態。</li> </ol>                                           |
| 池牆   | <ol style="list-style-type: none"> <li>多以泳池裝潢時進行內嵌設計。</li> <li>池牆輔助得使部分身體部位保持岸上。</li> <li>以池牆進行教學方便觀察與指導。</li> <li>扶持池牆不易下沉。</li> </ol>    | <ol style="list-style-type: none"> <li>池牆固定無法調整與變化應用。</li> <li>以非內嵌之方式進行使用。</li> <li>改善扶持池牆所造成之錯誤姿勢。</li> </ol>                |
| 教學椅  | <ol style="list-style-type: none"> <li>提供水中站立，相對降低水深。</li> <li>教學椅拼組配合教學課程。</li> <li>臥臥於教學椅以進行陸上模擬教學。</li> </ol>                           | <ol style="list-style-type: none"> <li>增加教學椅於水中之輔助教學功能。</li> <li>教學椅高度調整。</li> <li>考量漸進式教學方法。</li> <li>改善陸上模擬教學之缺點。</li> </ol> |
| 浮板   | <ol style="list-style-type: none"> <li>提供浮力輔助雙手或雙臂。</li> <li>腳夾浮板提供浮力輔助支撐雙腿。</li> <li>H型浮板可用於輔助雙手與雙腿。</li> <li>A型浮板相對H型浮板流線型較高。</li> </ol> | <ol style="list-style-type: none"> <li>降低學習者對於浮板的依賴性。</li> <li>改善錯誤姿勢與不良習慣的養成。</li> <li>多樣使用方式。</li> <li>可調整之浮力程度。</li> </ol>  |
| 浮條   | <ol style="list-style-type: none"> <li>長條圓柱狀，具有浮力，使用自由度高。</li> <li>隨使用者需求可任意彎曲。</li> </ol>                                                 | <ol style="list-style-type: none"> <li>浮力可調整。</li> <li>彎曲可固定。</li> <li>長度可調整。</li> <li>作為其他產品之加裝產品。</li> </ol>                 |

## Use Process

Before the design starts, we list the stages of the entire teaching process in sequence, and further analyze the interaction between people and the relationship between people and the environment, so as to design in the most complete and careful way to reduce neglect during design.

## Design Point

1. Designed for floating boards and teaching chairs.
2. Changes in the degree of assistance.
3. Use variation to reduce dependencies.

|     | 熟悉水性階段 |      |        |        | 技巧學習階段（打水動作） |        |        |         |        | 技巧學習階段（划手動作） |        |        |        |
|-----|--------|------|--------|--------|--------------|--------|--------|---------|--------|--------------|--------|--------|--------|
|     | 克服怕水心理 | 閉氣能力 | 韻律呼吸能力 | 蹬腿漂浮能力 | 坐姿打水練習       | 臥姿打水練習 | 扶牆打水練習 | 持浮板打水前進 | 徒手打水前進 | 划手分解動作       | 扶牆划手動作 | 浮板單手划手 | 浮板雙手划手 |
|     |        |      |        |        |              |        |        |         |        |              |        |        |        |
| 泳圈  |        |      |        |        |              |        |        |         |        |              |        |        |        |
| 池牆  |        |      |        |        |              |        |        |         |        |              |        |        |        |
| 教學椅 |        |      |        |        |              |        |        |         |        |              |        |        |        |
| 浮板  |        |      |        |        |              |        |        |         |        |              |        |        |        |
| 浮條  |        |      |        |        |              |        |        |         |        |              |        |        |        |

|     | 技巧學習階段（換氣動作） |       |        |        | 能力提升階段 |      | 自救能力 |    |    |
|-----|--------------|-------|--------|--------|--------|------|------|----|----|
|     | 水中扶牆換氣       | 持浮板換氣 | 徒手單向換氣 | 徒手雙向換氣 | 手臂訓練   | 腿部訓練 | 水母漂  | 仰漂 | 立泳 |
|     |              |       |        |        |        |      |      |    |    |
| 泳圈  |              |       |        |        |        |      |      |    |    |
| 池牆  |              |       |        |        |        |      |      |    |    |
| 教學椅 |              |       |        |        |        |      |      |    |    |
| 浮板  |              |       |        |        |        |      |      |    |    |
| 浮條  |              |       |        |        |        |      |      |    |    |

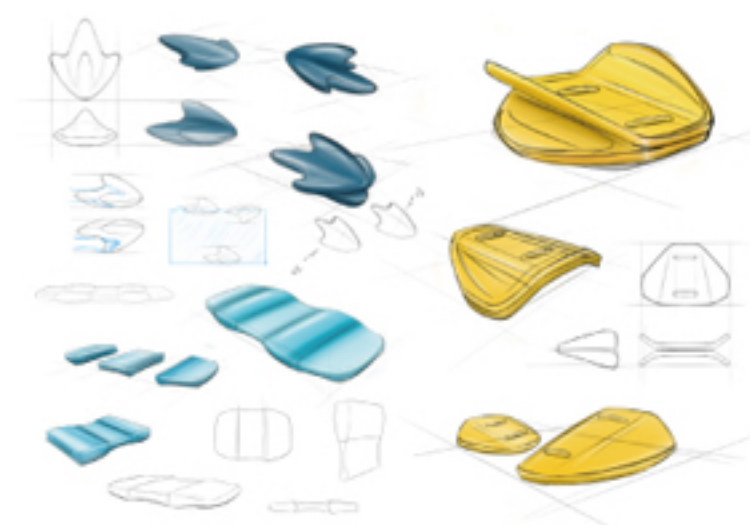


## Sketch

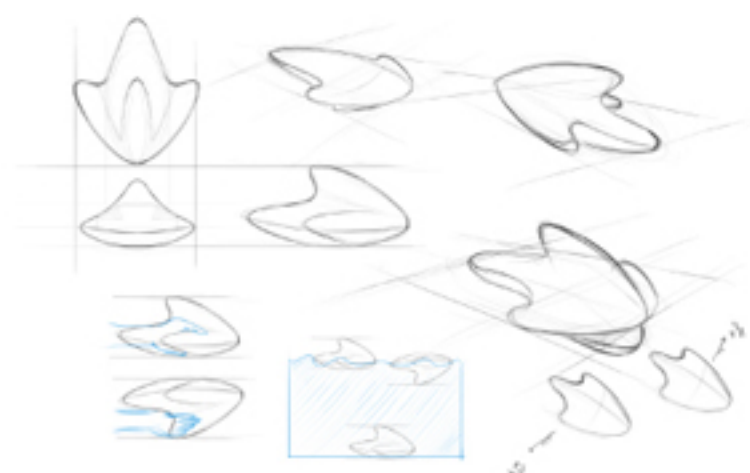
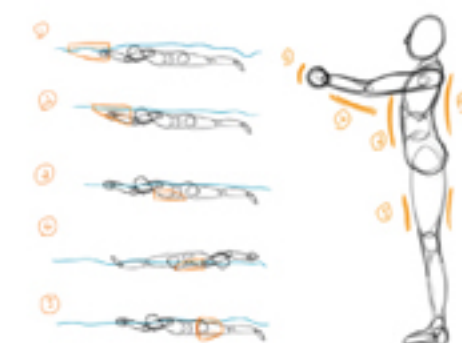
Sketch can record ideas at the fastest speed, and preliminarily examine the feasible way. After the preliminary research of this work, through personal experience of the swimming learning process and the role of teaching, I can feel the most real problems from the user's point of view bit by bit, and then record the ideas one by one.

In the preliminary proposal idea, the design of the floating board mainly starts from the shape, and is designed with the most commonly used hand support, chest support, back support and foot clips, and finally adjusts the change of the degree of assistance by dividing it. .

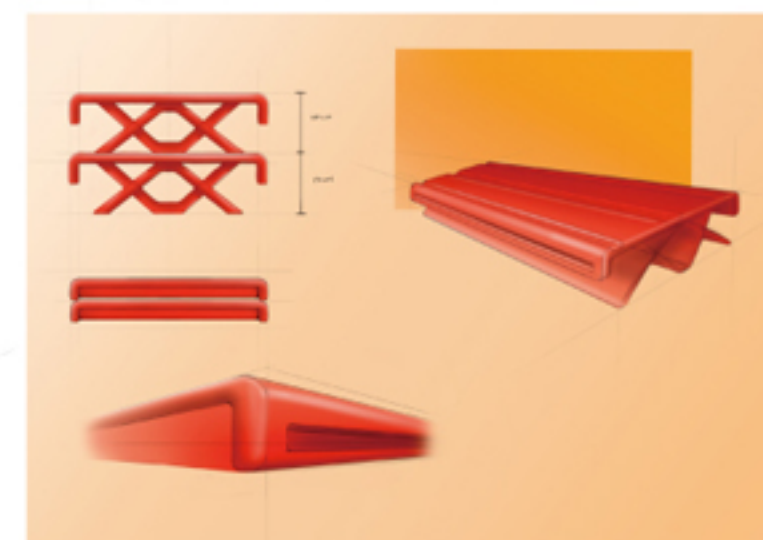
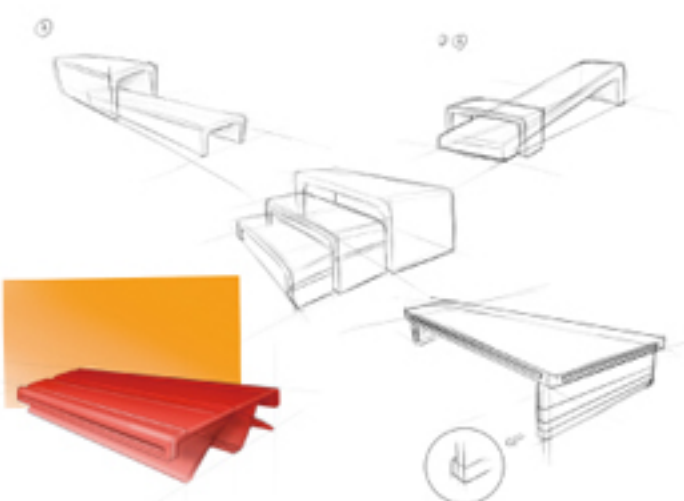
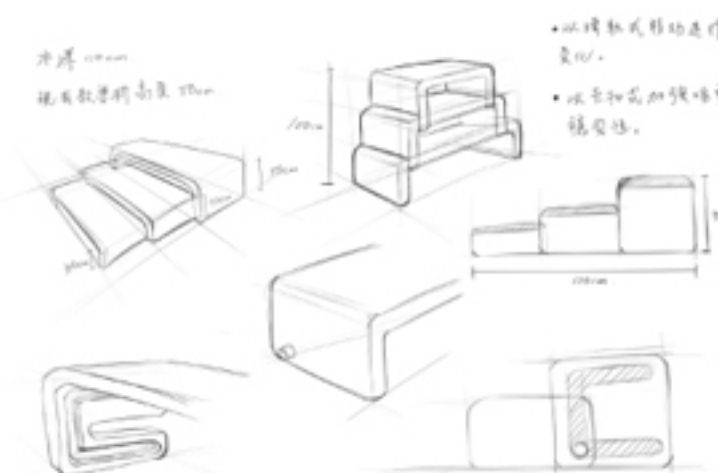
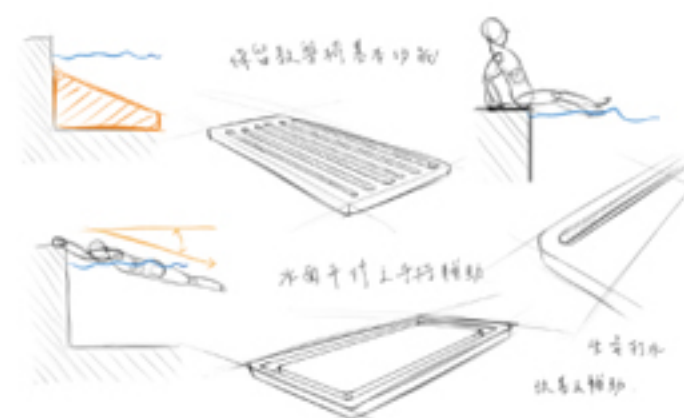
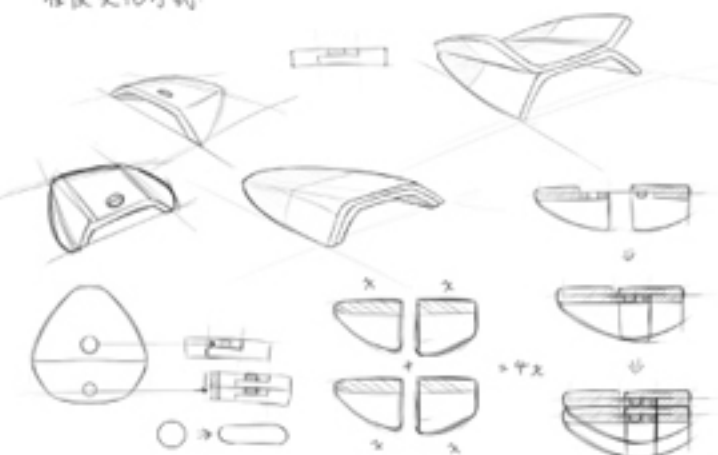
The part of the teaching chair achieves an auxiliary effect through the change of depth and height. The teacher can use it by stacking up or unfolding it, and teaching it with the game or purpose during teaching, so that the learner can gradually let go of the psychological feeling of nervousness and fear from the game .



辅助功能性



程度变化形式

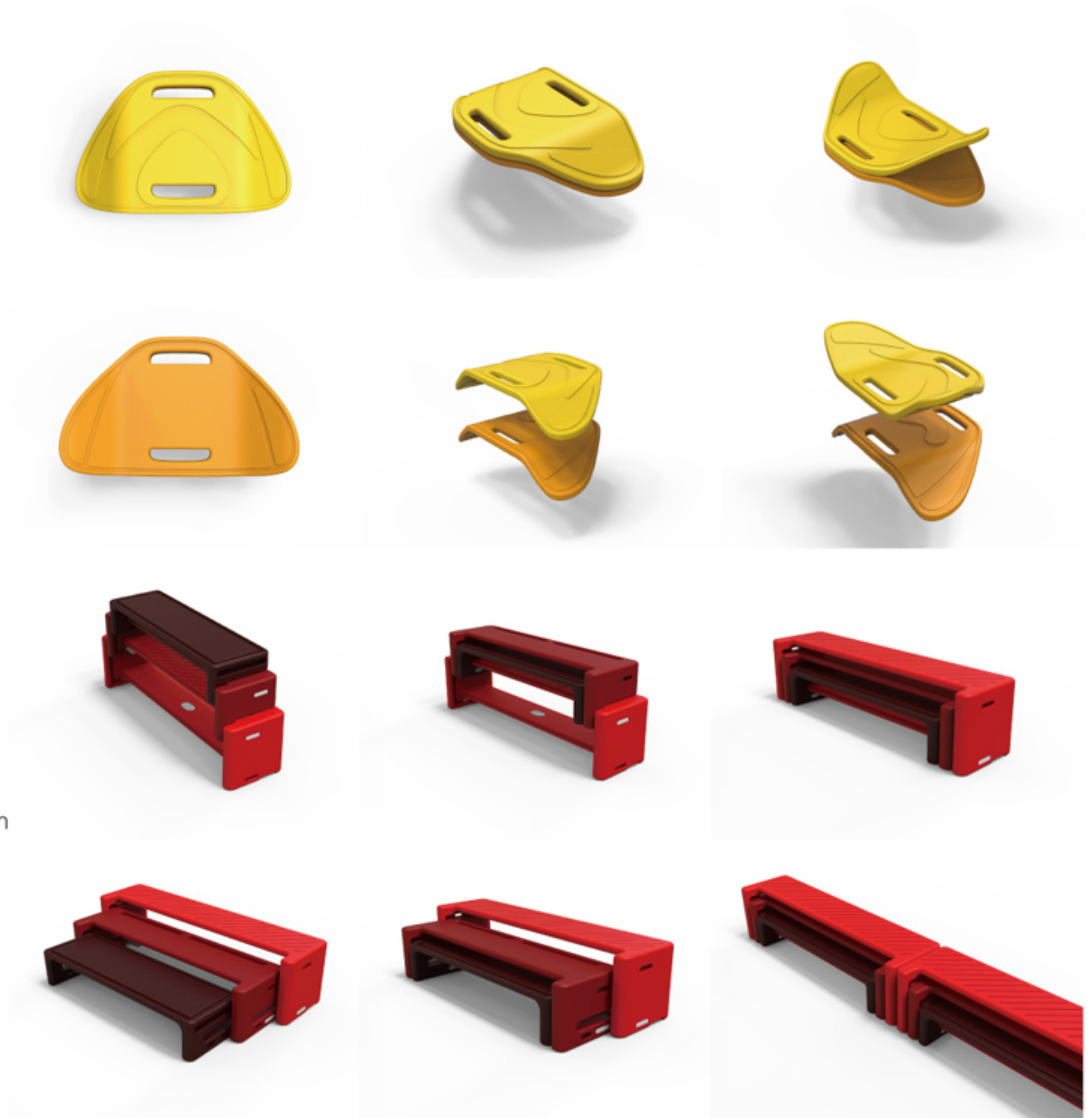


### 3D Modeling

After preliminary discussions and meetings, we decided to further develop the two proposals on the right, and simulate the size and shape through 3D modeling, so that after the imagination is closer to reality, we can also examine potential problems through 3D.

For example, after the 3D building of the floating board, it is found that if the surface has no texture at all, there may be a problem of drainage, and in the assembly method of each module, if there is no suitable fixing accessories, it is likely to fall off during use.

The part of the teaching chair is to find that the fixation after assembly is very important. In addition to taking into account the firmness and safety, the simpler the assembly method, the better, so that the teacher will not be in a hurry during the teaching process.

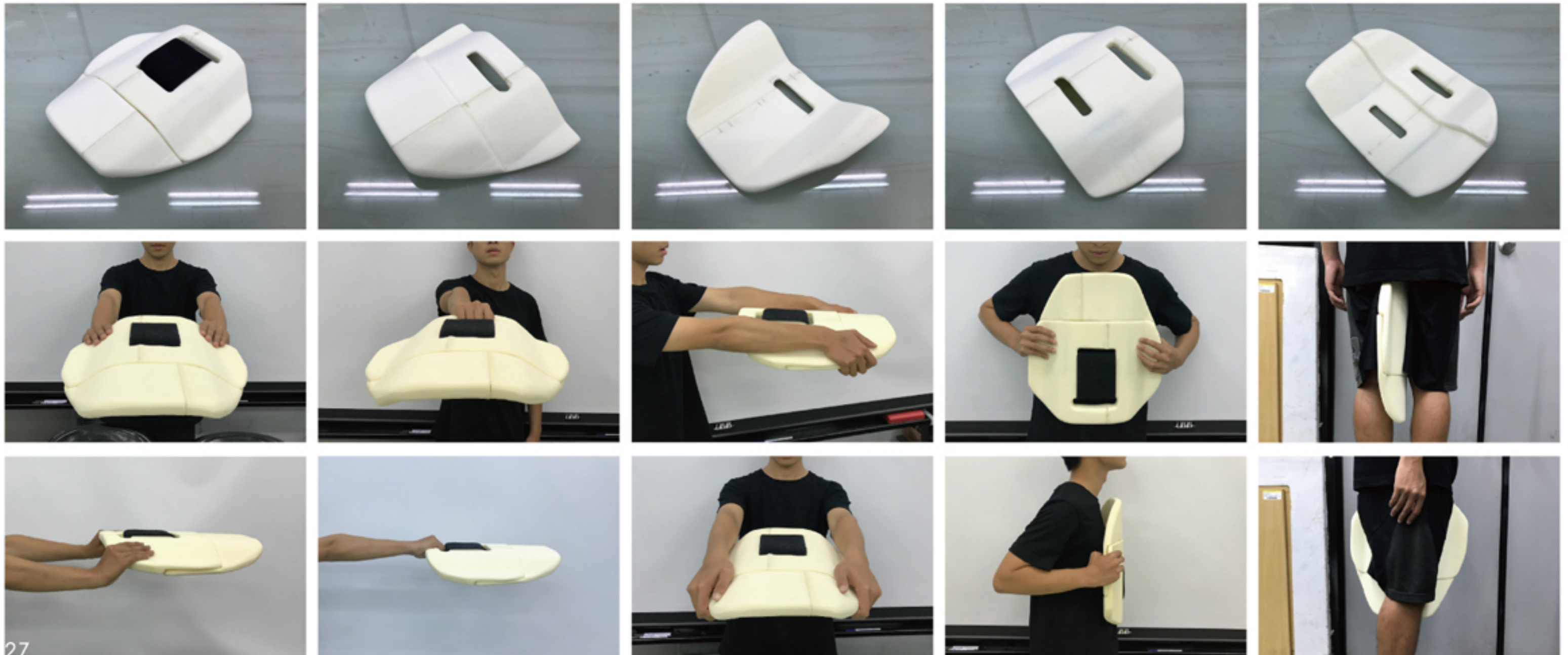




## Mockup & Test

Because the actual size of the teaching chair is too large, it was decided to temporarily use the floating board as the main design to make the actual size model. Therefore, we first use PU as the main material to make the mockup. The reason is that PU is a common material for model making and can be processed by cutting and grinding.

Through the method of mockup, the size and curve of the appearance can be examined to avoid unnecessary mistakes and losses in the production of prototypes. Through mockup tests, it is found that the original design is not ideal in the position and method of combination, and the balance of use is easy to shift.







## Prototype

After the correction, enter the model making of Prototype. The purpose of Prototype is to make the model as close as possible to the finished product, and to achieve the required functions and effects as much as possible.

In the prototype of the floating board, the plastic sheet is used as the skeleton first, and the shape is shaped by the hot bending technology. Then, the EVA is cut by laser processing, and then assembled by bonding, and the edge is closed with a hot air gun.

After the production is completed, it is also tested in the water. After a fair test by a professional swimming coach, we have received very good feedback and expectations!





### Teaching Feedback

For educators, the improved use diversity of this design allows floating boards that originally required 3-4 different shapes and sizes to only need one set, which is very convenient. More importantly, the adjustable degree of design, The dependence on the floating board can be gradually adapted in a gradual manner, which is a design that the existing floating board cannot do.





### Learning Feedback

For students, the wrapping design makes the experience better, because the existing floating board is easy to slip off when in use, and it is also easy to use when relaxing and enjoying. In addition, the adjustable degree of design can not only be practiced by yourself, but also can be shared with brothers and sisters, which is very practical.



# Nimbleness

The most intuitive way to wear shoes





## Design Research

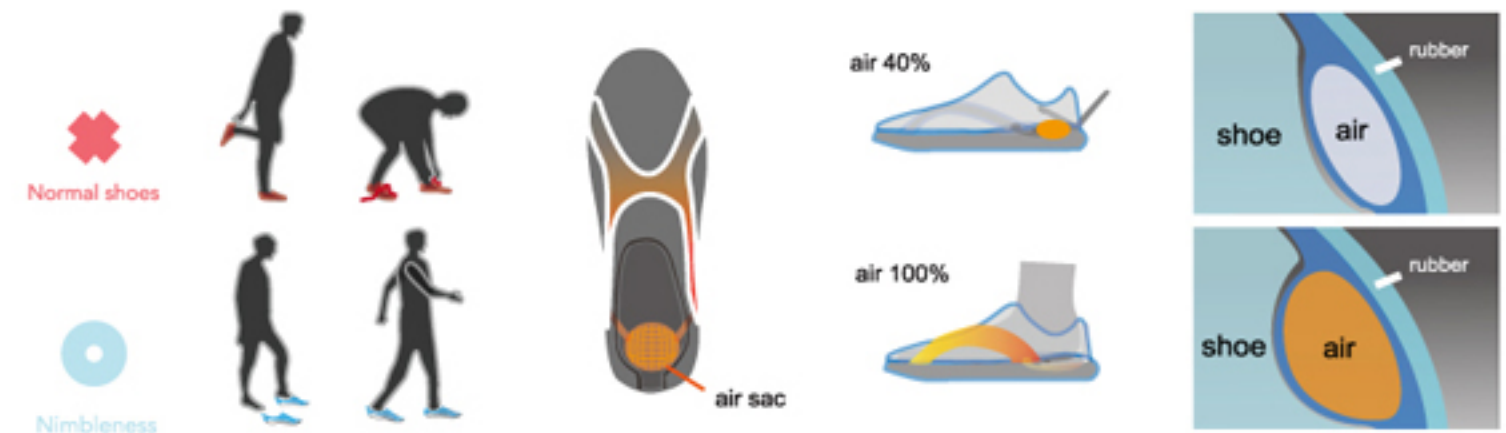
Shoes are products designed to protect the feet.

However, with the multi-purpose purpose of running and sports, the current shoes are gradually complicated, and even cause inconvenience to some groups, such as the elderly, pregnant women, and disabled people.

So we decided to design a shoe design that can be put on and taken off quickly without bending over and without hands - Nimbleness

## Design Point

1. No need to bend down and assist with hands
2. Intuitive use, quick on and off
3. Tight wrapping, unintentional shedding





## Sketch

Through observation, we found that 90% of people have the habit of wearing shoes to go in first, and then pull the heel of the shoe out. Even if it is assisted by a shoehorn, it is still inconvenient. After all, it is impossible to carry a shoehorn with you.

Therefore, we mainly design the heel of the shoe, so that the user can automatically close and fix it during the process of putting on and taking off.

In addition, in terms of taking off, 80% of users are also used to stepping on the base of their feet with the other foot, so we also designed this habit into the mechanism of Nimbleness.



## 3D Modeling

In modeling, we simulated the final appearance through 3D modeling. In addition, a gas pressurization design is added to the design of the sole of the shoe. The user only needs to step into the shoe, and the internal gas moves forward due to the compression of the space to achieve the effect of pressurization.

However, due to the reason of the proofing manufacturer, the design of gas pressurization could not be achieved, so the main rear mechanism was used to design the model first.





## Mockup

The shoe pattern design is different from plastic and metal processing. It must be made by reverse engineering. The paper and shoe last are used for preliminary wrapping, and then the paper is spread out and imported into the computer for mechanical design.

Finally, we also successfully produced a mockup and was selected for the Bran Campus Prize Taiwan 2017 Award.



## Award

Bran Campus Prize Taiwan 2017 Award













# Saflush

## Design Concept

The SaFlush dehumidifying toilet is designed for wet environments and bathroom problems. Through the combination of the dehumidifier and the toilet tank, the user opens the SaFlush to dehumidify the bathroom environment after the bathroom is used.



## Design Research

A damp bathroom is often the best environment for mold, dust mites, and mildew to grow. These microorganisms are often the main cause of allergies. For a family with a newborn, the health of the newborn is very important; for the elderly, the weakened resistance is also likely to cause infection.

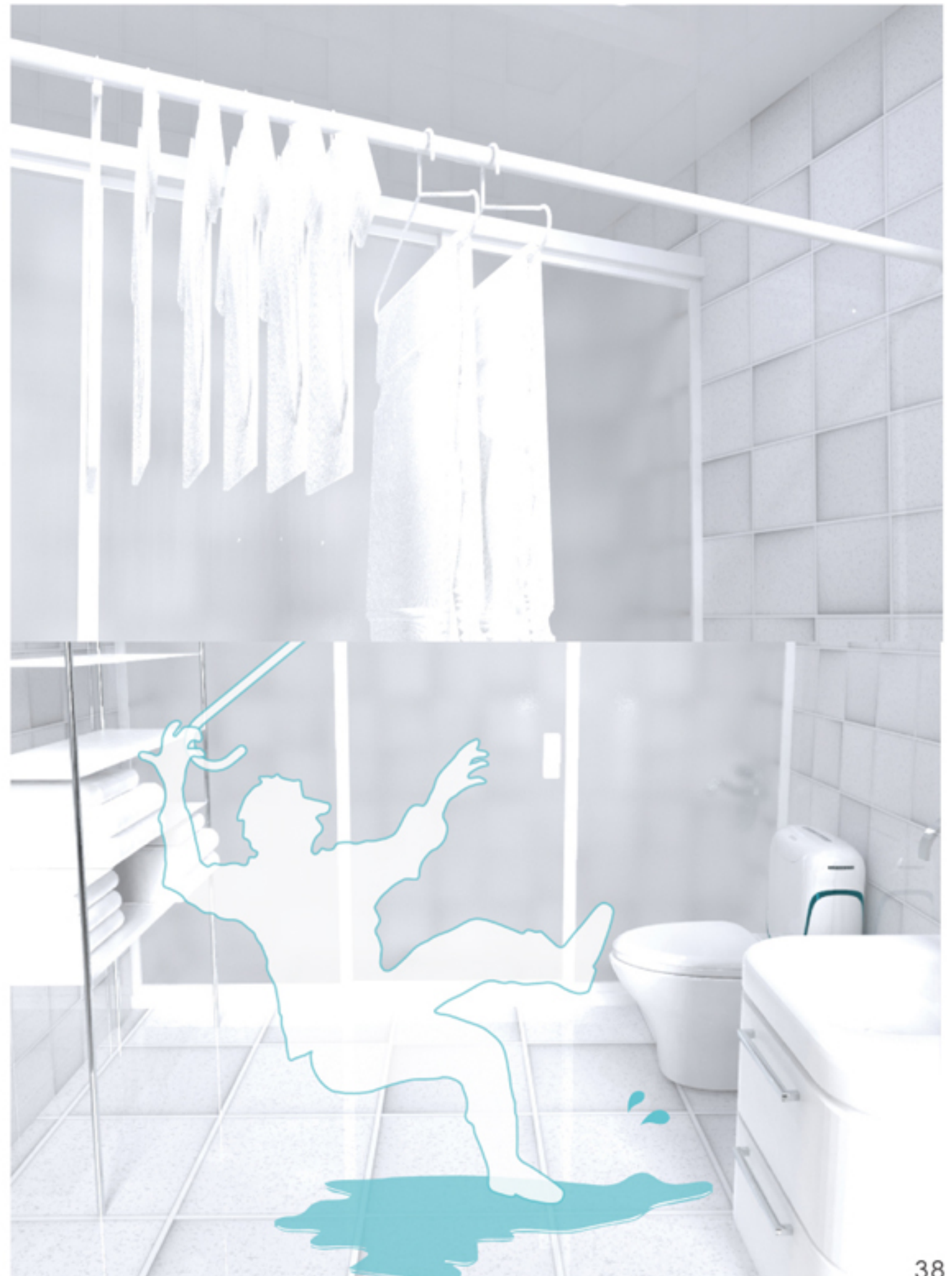
In addition, if there is water on the ground, it may also cause an accident. Therefore, the maintenance of the bathroom floor is very important.

In addition, in humid countries, rainy weather is not suitable for drying clothes, and drying clothes is easy to cause clothes to deform, so we design with the bathroom environment.

## Design Point

According to our observations, the use of dehumidifiers is quite common in humid countries. However, the dehumidified water tanks often need to be transported to the bathroom for disposal, which is quite troublesome for many users with insufficient strength. Therefore, we set the design points as follows three points:

1. Dehumidification function
2. Solve the handling problem
3. Reuse of water resources





### 3D Modeling

We started from the toilet seat, hoping to apply it to every family in an additional way, creating the greatest benefits. The shape of the curved surface gives the appearance a rounded appearance, avoiding the potential danger of sharp corners in the bathroom.

The holes on the left and right sides are designed as air inlets, using the principle of a dehumidifier to condense the moisture in the air into water, which is naturally discharged downward into the toilet tank.

### Humidity detection

Through the humidity detection technology, when Saflush senses that the humidity in the space is too high, it will automatically light up a red light to remind the user to suggest dehumidification function, and in order to avoid repeated dehumidification of toilet water, the toilet lid must be closed. Only then can it be enabled and used.





## Operation method

Toilet water is an important part of water resource reuse. In Taiwanese culture, excess water is often poured into the toilet for recycling, especially the water from the dehumidifier.

However, the existing product method is that you have to move the dehumidifier into the bathroom, take out the water tank after dehumidification, open the toilet lid, pour water, cover the toilet lid again, put the water tank back into the dehumidifier, and finally move the dehumidifier out of the bathroom. This process creates many steps, wasted effort and inconvenience.

Saflush, just turn it on, time it, and it's done!

## Filter replacement

For long-term use, cleaning and replacement of the filter is a must. Saflush only needs to be pulled out from the middle to clean or replace. It is very convenient for the elderly, and there is no need to bend over and disassemble it, causing unnecessary troubles.





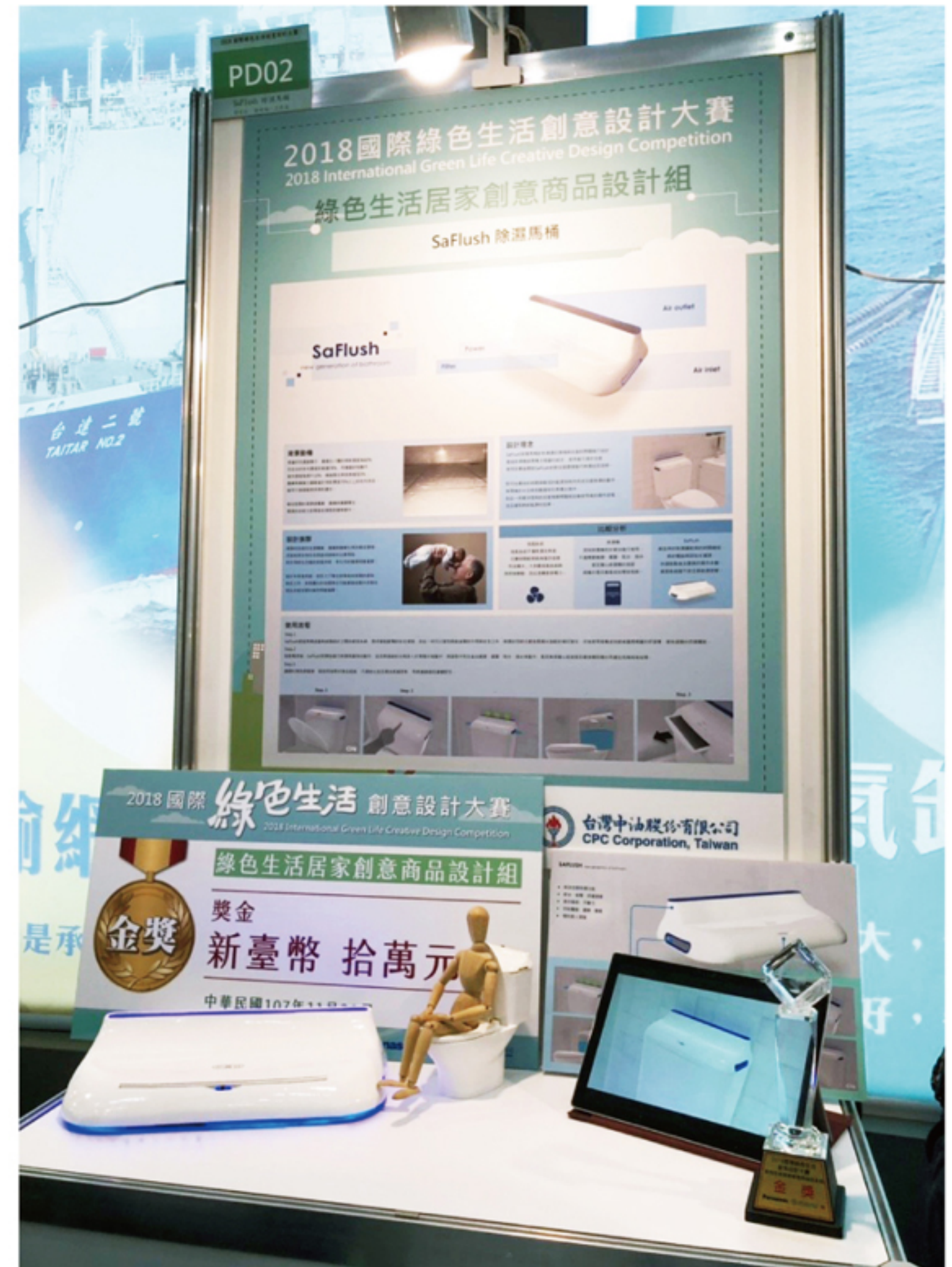
## Award

The 2018 International Green Life Creative Design Competition is a design competition jointly organized by CPC Corporation, Taiwan & Panasonic, which mainly designs on the theme of environmental protection.

Fortunately, we won the gold medal in this competition

We also received many suggestions and feedback from Panasonic in this competition.

## Video





# Saflush Red

## Design Concept

According to suggestions and feedback, we re-adjusted the design of the second generation Saflush "RED" to make the design more perfect. We divided the water tank into left and right sides. The purpose is to distinguish the original water of the toilet and the water after dehumidification.

The reason is that when the toilet When the water reaches a certain height, the excess water will also be drained, which can be adjusted to reuse water resources more effectively.





# Vio Smart violin

## Design Concept

1. Combining violin with technology to create better practice in learning.
2. Connecting bluetooth speaker, the performing field is no longer limited.
3. Being more motivated in practice.



Vio  
smart violin



## Design Research

According to research data, among children who are beginning to learn musical instruments, 45% of the subjects choose the violin, which is recognized as the most difficult to learn in the world, because the violin performance needs to be very accurate in addition to the pressing position of the fingers. The angle, speed and force of the bow all affect the sound produced.

The performance of the violin is divided into fingering, bowing and playing the violin. The most difficult part is the accuracy and practice of fingering, because the violin does not have the assistance of the piano like the guitar, and the accuracy of the sound can only rely on familiarity.

## Design Point

In the design of this case, we designed the interactive design on the fingerboard. Through the touch screen technology, we can achieve intuitive teaching interaction and reduce the difficulty of learning.

## Design Award

2017 Corning Future Innovator  
Special Award





## Design Concept

Vio smart violin has three major features, Fingerboard interaction, sound equipment, and the learning process are designed.

1. The violin fretboard designed with Corning Lotus XT high-performance display glass and Gorilla reinforced protective glass guides the learner to press the position through the interactive mode, which greatly shortens the time to find the pitch and improves the efficiency of practicing the piano.

2. Through interviews and surveys, it was found that many interviewees were often unable to practice due to volume and field limitations. Therefore, Vio is connected as a sound source through a Bluetooth connection. You can connect headphones when practicing at home, and speakers or even surround speakers when playing.

3. Improve the learning process through the mobile APP. Learners can improve the quality of learning through downloading, recording and playing games.





## Future Development

In addition to the product and user experience, this design also has a plan for future development. The Vio smart violin combines traditional performance instruments with technology to improve service quality and extend from the perspective of learning to the player's practice, creation and performance.

In the future development, the accompaniment mode can be added to the advanced piano model through the APP to simulate the atmosphere of live performance; the record mode can add the function of writing notation in addition to sound recording, so that improvisation and creation can be recorded. Finally, the artistic image is added through the display panel, so that the performance can be enjoyed both auditorily and visually.

## APP Design

Vio app Design is mainly developed for the learning part. Learners can play familiar music through the sheet music, and use the record mode to self-examine after the practice; the completion rate and practice frequency of the practice will be converted into game scores. Peer-to-peer motivation increases the spontaneity of the practice. In addition, the Vio app also has scale teaching, tuning functions and other functions to assist learners.





# GoRecord

Rent to record your memory





## Design Research

For a traveler, a gas station is a second home during the journey. The travel record is the memories of youth and the diary of the new era, but for the vast majority of travelers, it is an annoying thing to carry all kinds of large and small photography tools to travel.

for users with busy lives Generally speaking, the unit price of action cameras is high but the frequency of use is not high, which makes the travel records leave a little regret.



## Design Point

1. Rental service of action cameras
2. Recommendation of tourist attractions



## Design Award

2018 International Green Life Creative Design Competition

Bronze medal







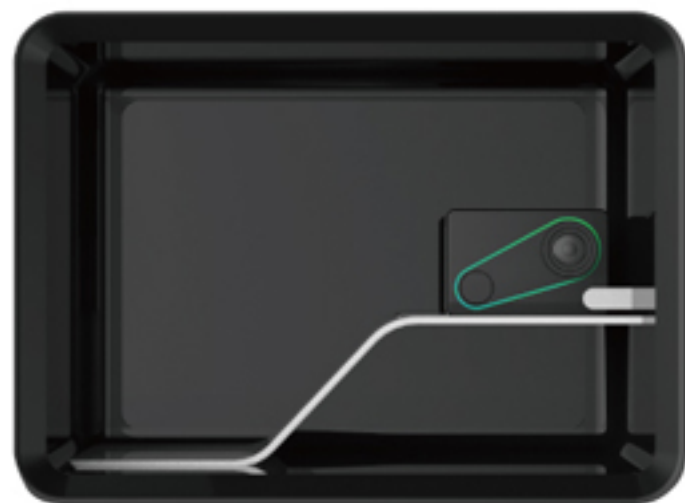
## Attraction query

Query the attractions through Gorecord, and the device will recommend the equipment you rent for the attractions.



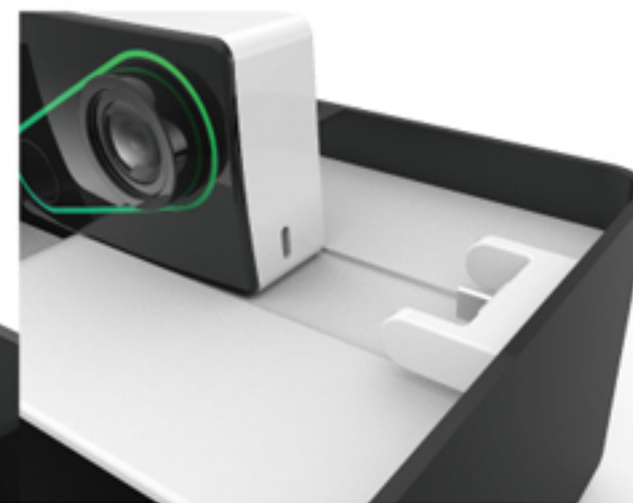
## Rental process

After the rental is completed, the corresponding storage compartment will light up, just take it out.



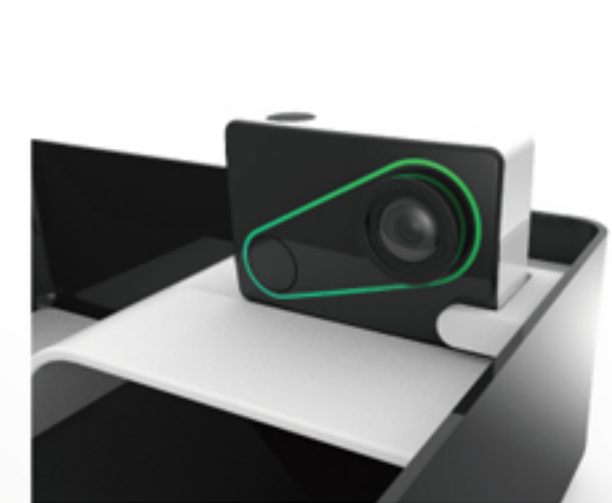
## Return

When returning, you only need to plug it back into the charging position to complete the return.



## Connect

After connecting, the system will automatically upload your files to the exclusive temporary storage space.










## Download






Therefore, you only need to go to the cloud temporary hard disk to download your files through QRcode or link. If you apply for membership, you can also permanently save the files on the system cloud.






Changing the power station is no longer just a passing character, but the central point of the travel guide, where you know where to go, refuel, prepare tools and set off to create and record your own memories.








GoRecord Drive










Welcome



2021 / 11 / 03

2021 / 02 / 14

2020 / 07 / 30

2020 / 01 / 01





# GORECORD

record your memory

50



The later stage of development is to provide more intimate and comprehensive rental of peripheral equipment for photography, providing services such as rental and return; and through the Internet, a platform belonging to China Petroleum Travel Network can be set up and information can be shared to achieve a complete service cycle.



The addition of GoRecord provides considerate services for the tourist group. In the future, CNPC can continue to cultivate tourism, become the center of tourism information and services, integrate travel sharing from all directions, and become a sharing dedicated to tourism. platform.



The GoRecord service provides users with low-cost and high-value rental services. In addition, it also provides recommendation and collection of tourist information, so that tourists who are not familiar with the area will have a direction; the collection of tourist information Let Taiwan's tourism be further explored and promoted.

For CNPC, the establishment of GoRecord has enhanced the brand value, making the gas station no longer just a passing role, but the central point of the travel guide, where you know where to go, refuel, prepare tools and set off. Create and record your own memories.





# Rental Battery

1. Let the electric locomotive power station have more ways to use
2. Device design for integrated power consumption and charging
3. The solution to never worry about running out of power





## Design Research

It has to be said that the emergence of GOGORO, whether it is environmental protection or scooters, has greatly improved and benefited Taiwan.

In particular, the concept of battery replacement perfectly solves the problem of charging electric vehicles, and only needs to be quickly replaced to start.

Therefore, through our observations, we found that there may be more possibilities for quick replacement applications.

## Design Point

After our research, we found that for camping and video recording teams, a large power supply or generator is one of the most important pieces of equipment.

However, the more troublesome thing is that the large power supply needs to be charged before departure, and the generator needs gasoline as a fuel, and it makes a lot of noise.

Therefore, through the design, the quick-replacement GOGORO battery can be applied to the generator.



## Traditional Solution







### Rent Batterys

In Taiwan, almost every gas station has a power station replacement service, and even some stores also provide it.



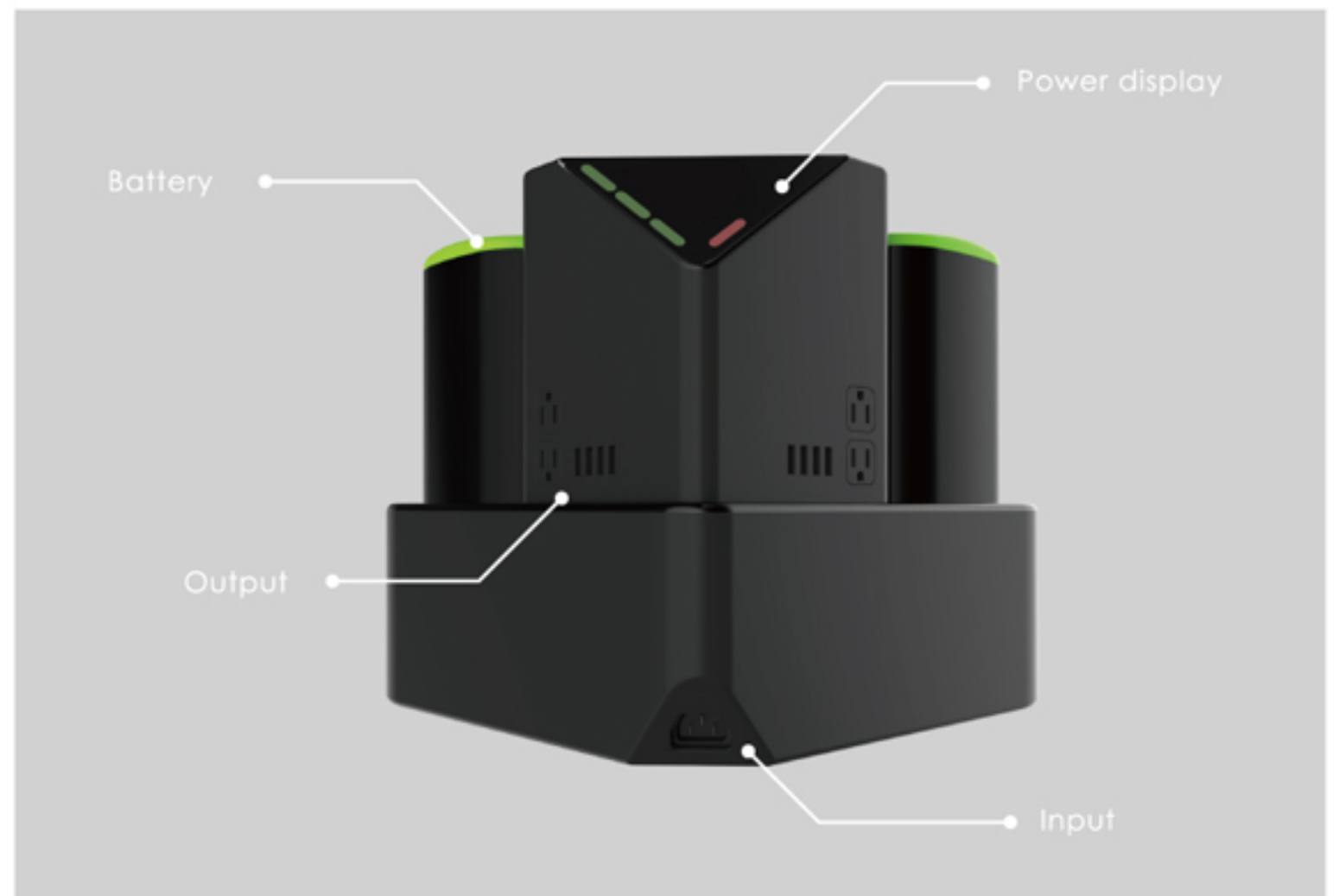
### Instructions

Just put the battery in and it's ready to use.



### Wide range of applications

Not only can it charge devices, it can even be used as a power supply for lights and electrical appliances.







### Camping

With Rental Battery camping sites are no longer limited by the power supply and can enjoy with peace of mind.



### Working

For the video team, there is no need to worry about running out of batteries, just rent a few more batteries.



### Power failure

Even when there is a power outage, the battery can be obtained in real time through the battery on the electric vehicle or the nearby rental station.



### Charging at home

No need to find station

### GOGORO User

If you are a GOGORO user, you can even charge it at home, saving you the journey to find the battery.



# DaVinci

DaVinci, a new product produced by combining a vacuum cleaner with an electric mosquito swatter, we designed to use the flow of wind to increase the mosquito capture rate and inhale the mosquitoes into the lower electric shock zone for mosquito killing. In this way, users can protect the health of their families by actively capturing or passively catching mosquitoes.

By inhaling, they can also prevent children in the home from accidentally touching the power grid and causing injury.





## Design Research

According to data from the Bill & Melinda Gates Foundation, an estimated 725,000 people die from mosquitoes each year. With climate change and globalization, mosquito-borne diseases are becoming more and more common in many places, such as dengue fever, malaria, yellow fever, Zika virus, and West Nile virus.

Therefore, the importance of mosquito killing should not be underestimated for human health. However, mosquito killing by insecticides will also increase the resistance of insecticides through the growth of drug resistance, but affect the overall ecosystem.

## Design Point

1. Actively capturing
2. Passively catching
3. Increase capture rate



**Dengue / Japanese encephalitis / malaria**



**Phototaxis**

+



**Electric shock**

1. Can actively attack
2. Can passively catch mosquitoes
3. Increase catch rate
4. Easy to take



## Surface design

Surface of Davinci is designed in a circular arc shape to help guide the suction function and keep the features of the electric mosquito swatter on both sides.

## Suction design

The inhalation function can increase the range and probability of capturing mosquitoes, and can achieve both anti-mosquito action both active and passive; the inhaled function can also prevent children from accidentally touching.

## Storage space

After inhaling the electric shock, the mosquito can be poured out once to the storage space below.

## Stand design

The stand-up design allows Davinci to be used as a mosquito-trapping lamp, passively killing mosquitoes, and allowing light, power and back-up operations via buttons.

Surface Design

Inhaled Design

Storage Space

Power

Personal settings



## Whats different ?

Insecticides not only cause harm to the environment, but also make it easier for pesticides to remain in other organisms. Davinci is environmentally friendly and healthier than pesticides.

The storage and use of electric mosquito swatters is easy to miss the chance of catching mosquitoes. When Davinci is idle, it can be used not only as a home decoration, but also as a mosquito lamp. In addition, the suction design greatly increases the mosquito capture rate.

The mosquito lamp can't prevent mosquitoes by active capture, so when the user sleeps at night, he can't fall asleep because of a mosquito.

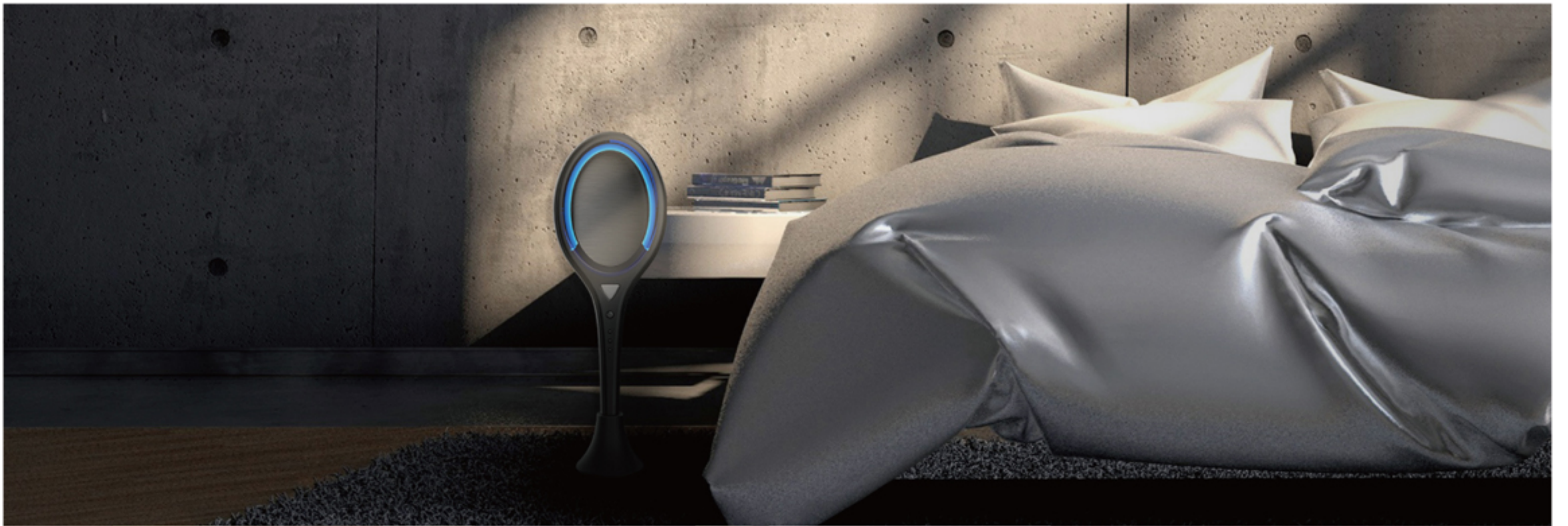
## Why we designed it ?

For children, the child's curiosity is easy to touch the electric mosquito swatter's power grid, causing unnecessary danger. By inhaling, Davinci hides the grid from the product and avoids injury.

For older people who are slower to move, the use of electric mosquito swatter is not fast enough, and it is easy to miss the timing of mosquito killing.













# Squeeze Aliens

Dual projector for Learning , connection & Interaction.





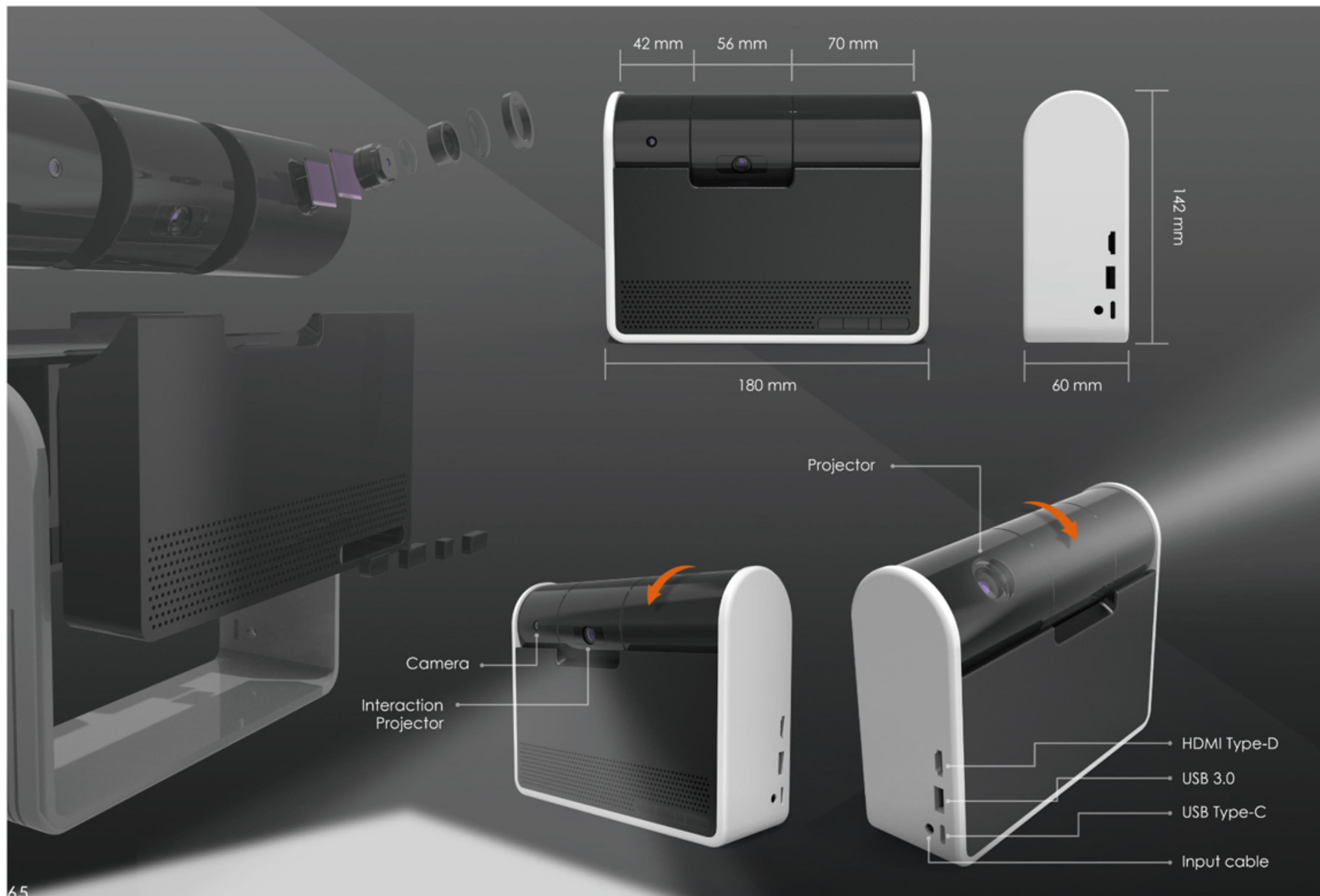
## Design Research

According to the family income and expenditure survey report of the General Office of Accounting and Accounting of the Executive Yuan, the number of grandparents and grandchildren families in 2016 increased by 19% compared with ten years ago, and it was as high as 42% compared with twenty years ago; It's all "I was brought up by my grandpa and grandma".

1. The biggest problem in families with intergenerational parenting is the physical strength of tutoring and companionship in schoolwork.
2. For busy parents, companionship and academic tutoring are even more difficult.
3. Parents work in other places for a long time, and handing over their children to their grandparents will easily change the attachment relationship between parents and children, and even lead to behavioral deviations in the children.



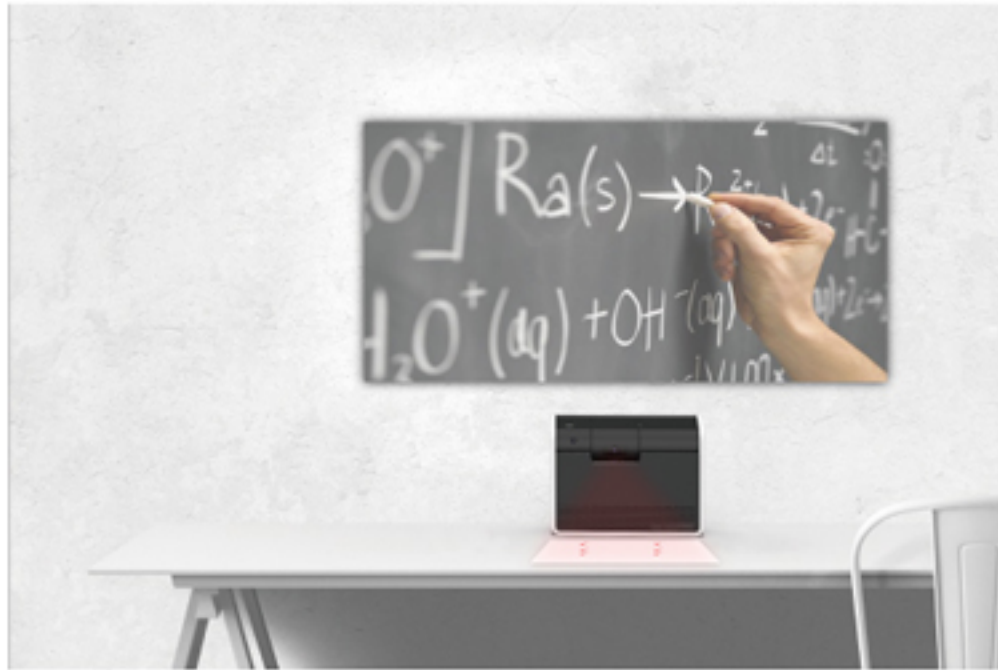






## Design Concept

Squeeze Aliens is a dual-camera projector designed for children's education and parent-child interaction. Through camera and projection, combined with a network platform, it provides three major functions: homework tutoring, grandparent-grandchild interaction, and remote interaction.



### Tutoring Class

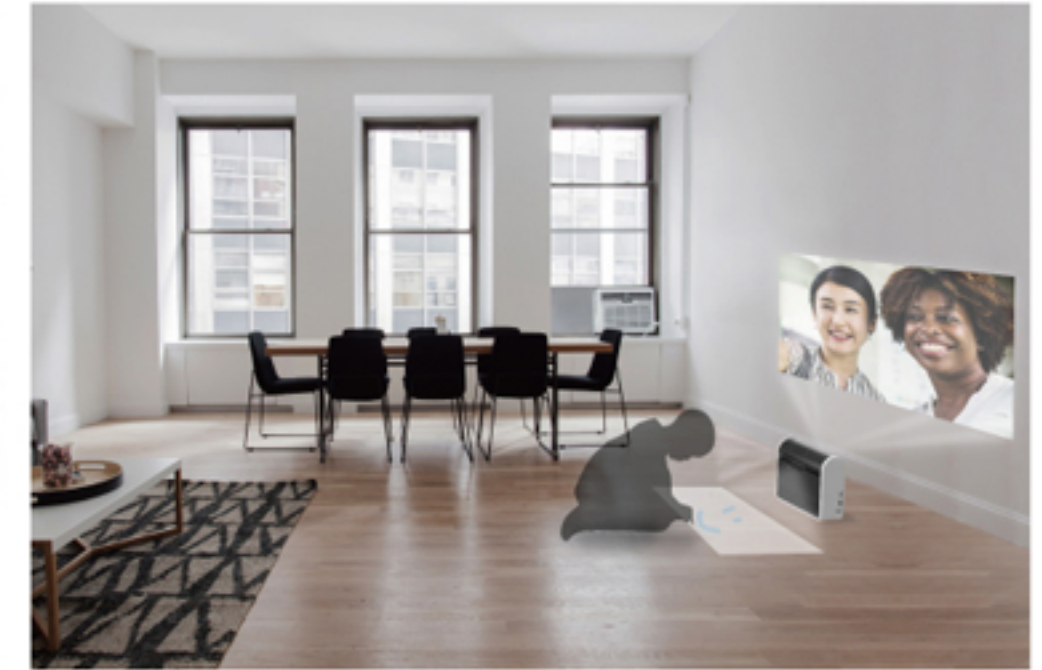
Through the lens and sensing projection on Squeeze Aliens to provide homework tutoring, students only need to study at home, and grandparents no longer need to worry about their grandchildren's homework, and it can also reduce parents' worries about the safety of their children's tutoring outside. It can also promote the development of online tutoring platforms.



### Interactive Game

Using sensing projection technology, in addition to enhancing the relationship between grandparents and grandchildren through interaction, interactive games can greatly reduce the physical exertion of grandparents, and can also cultivate the learning ability of grandchildren.

In addition, the dual-lens projection method can make the operating experience more realistic and smooth.



### Remote Interaction

Parents working in other places can also use Squeeze Aliens for video interaction; through projection, the video characters are no longer confined to a small area, and they can also play remote interactive games with children, so that parent-child interaction is no longer limited by mobile devices. Limitation Children must hold it to communicate, even if they are just playing on the sidelines, parents can accompany them quietly.



## Emergency Street Light

Avoid secondary injuries and make rescue smoother





## Design Research

According to the emergency rescue statistics of the Fire Department of the Ministry of the Interior, in 2017, the number of ambulance vehicle attendances was 1,100,323, with an average of 3,014 attendances per day, and each attendance is a tug-of-war with time; Even lead to secondary accidents. Through interviews and research, it is known that the light warning is not easy to detect, the sound warning can know that an ambulance is nearby, but the direction is unknown, and the sound of the siren is easily covered by the car's sound.

## Design Concept

ESL uses the concept of the Internet to change traffic signs, request vehicles ahead to give way in advance, keep the emergency flow smooth, and avoid secondary accidents on crossing roads. In the future development, the use of reporting and other emergency vehicles can also be added, so that precious time will no longer be wasted because of not knowing where to go when reporting, and other emergency vehicles can also greatly reduce the time consumption in traffic.





## Emergency button

When an emergency rescue event occurs, the current location is often not known during the panic process, so that the ambulance team cannot immediately know the location at the first time. Street light are the most densely populated in the city. The emergency button can be used to quickly let the ambulance know the location of the incident and go there immediately to avoid missing the rescue time.



## Ambulance detection

Through Street light and ambulance detection, predict the driving route, and prompt the vehicles ahead to give way in advance.

Because the sound insulation effect of vehicles is getting better and better, coupled with the sound of music in the car, basically when you hear the sound of an ambulance, it is already behind, and you only give way at this time, wasting a lot of rescue time.





## Traffic light

In order to allow the vehicle in front to get the right way to the seat of the ambulance, the traffic lights in front will display a "cross" symbol, indicating that the ambulance is moving in the same direction and needs to give way to the left and right.

At the intersection, it is an emergency turn to a red light, and lateral vehicles are prohibited from driving in advance to avoid secondary accidents during the rescue process.

## Expected benefit

Emergency Street Light hopes to assist auditory reminders through visual means, so that there can be a more complete rescue system in crowded cities. In addition to improving rescue time, the most important thing is to avoid secondary accidents, so that ambulances can focus on the way to go .

## Design Award

2018 Healthy City Creative Concept Design Competition  
Hosted by Tsinghua University

Excellence Award





# Commercial Design

Commercial design can range from namecard to interior design, photography to packaging and more. If products are compared to people, then commercial design is like our clothing, accessories and spaces.

FORYU DESIGN divides commercial design into five major projects, commercial photography, packaging design, graphic design, website design and logo design. And it can be commissioned through case by case, Design project, long-term cooperation or even Strategic Alliance.



Case by case



Design Project



Long-term Cooperation



Strategic Alliance



|                |    |
|----------------|----|
| Website Design | 73 |
| Photography    | 77 |
| Package Design | 78 |
| LOGO Design    | 79 |



Design Requirement



IDEA Proposal



Detail Adjustment



Export Project





Language

English

繁體中文



HOME

STATIONERY

HOUSEHOLD

INTERLINK

CONTACT

## Belongs to you Office storage partner .

"Two-tone" dual color matching lets the whole item  
to be more outstanding and also provide variety of color choices.



Enjoy Life / Life in Joy



# Website Design

## Requirements

Website design can be divided into shopping websites, image websites, marketing webpages, etc., and there are different ways of expression according to different types.

Before the design starts, understand the requirements and functions through discussions, and then plan the structure of the website.

## Planning

Taking the INTERLINK website as an example, they need to focus on the image website, but hope to present the effect similar to a shopping website in terms of product performance.

Therefore, we first divide the main structure into products, about, contact information and Inquiry system.

Since INTERLINK is mainly exported to the export market, we also add multi-language software to it, so that customers from various countries can browse in the most familiar language.

|           |           |                     |                       |             |
|-----------|-----------|---------------------|-----------------------|-------------|
| Main Page | Product   | Stationery          | Household             |             |
|           | About     | Business Principles | Exhibition & Activity | News        |
|           | Contact   | Information         | Location              | Email to Us |
|           | Inquiry   | Select Product      | Send to Us            |             |
| Language  | Catalogue | Stationery          | Household             |             |





## Design Layout

After determining the structure of the website, it will enter the stage of Design Layout. In the Layout part, we only design based on "beauty and purpose", which means to guide the viewer to the next step of browsing under the high-quality aesthetic feeling, which is the professional existence of UX Design.

## Graphic Design

Graphic Design is one of the most important elements in a website. Different styles, sizes or aesthetics will form different images for viewers to watch.

### Banner Design

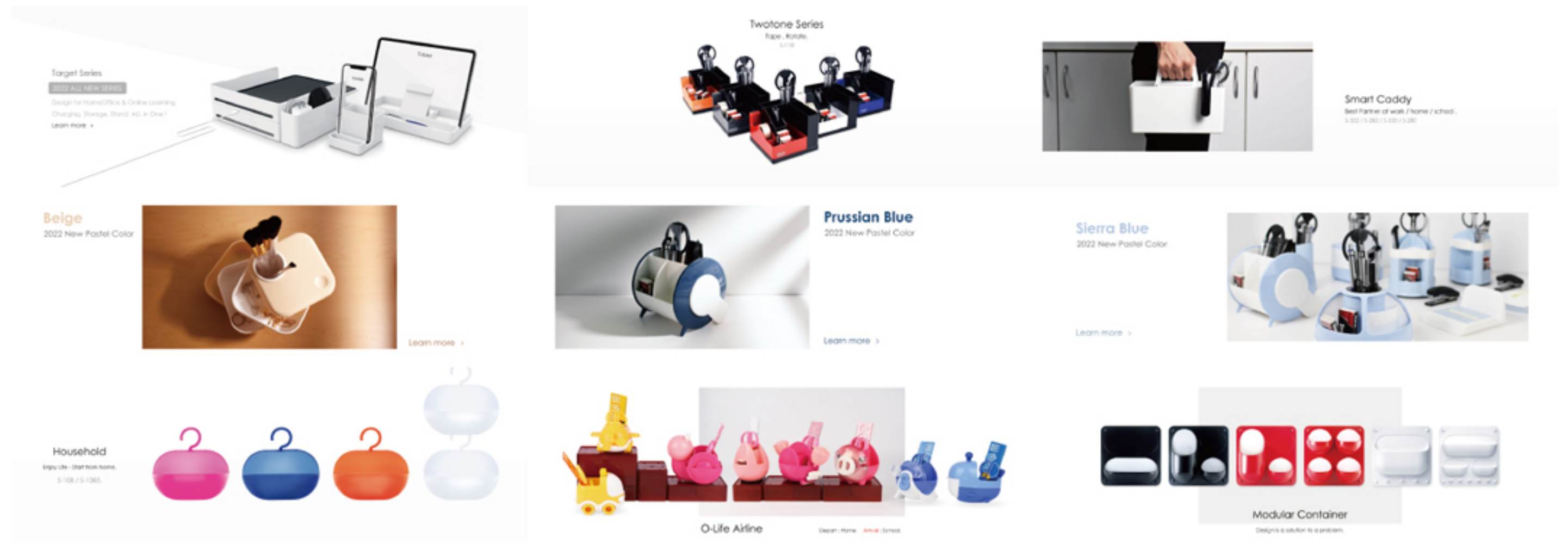
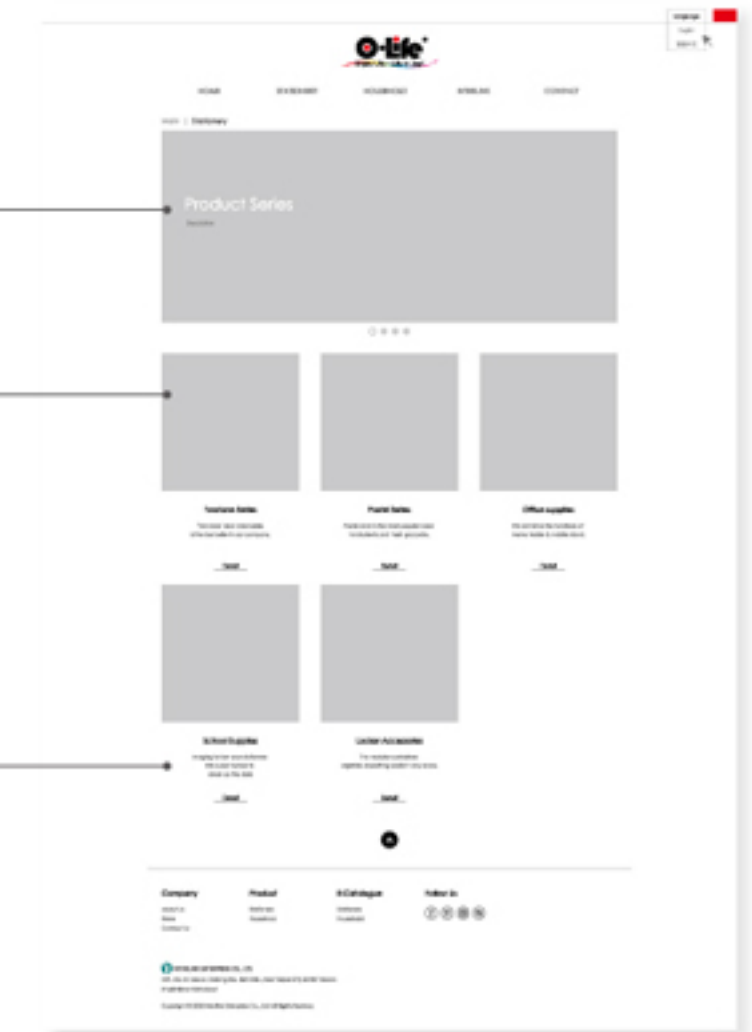
1920 x 800 px

### Series Graphic

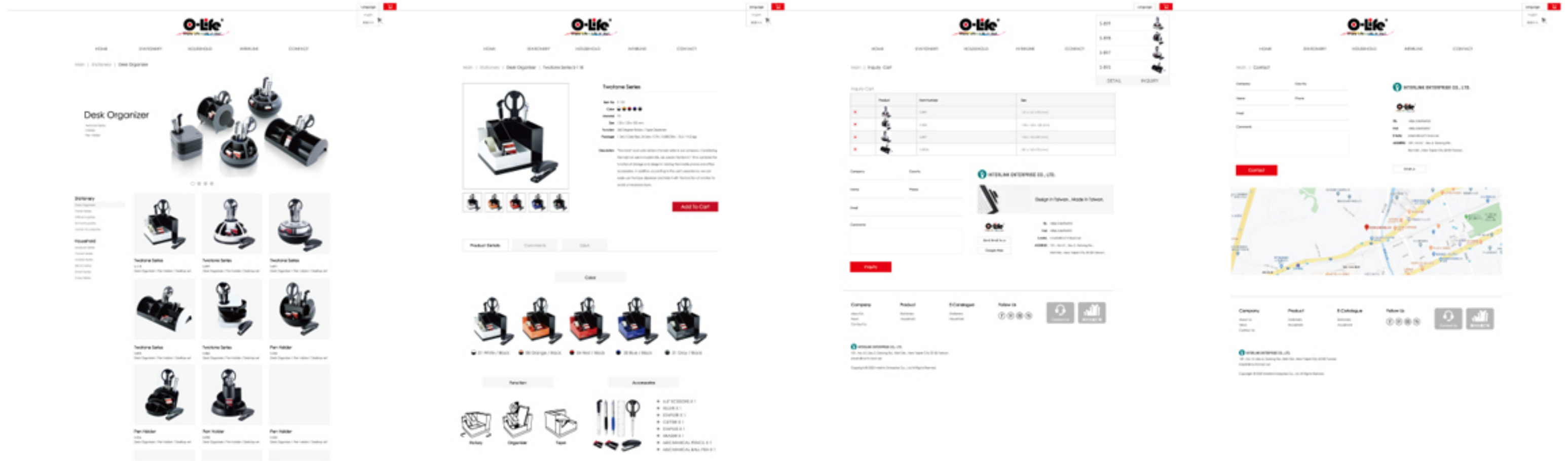
600 x 600 px

### Description

3 lines of text







## Mockup

After all the structures and materials are ready, we will first create a Mockup to allow customers to simulate the presentation of the final results.

## Wordpress

Finally, we will package all the stages, materials and mockups in the process into projects and provide them to customers.

If customers need not only design, but also construction services, we also have a team of engineers who have cooperated for many years to provide customization or Wordpress production.





## Photography

Photography is the most important foundation of commercial design. A good photo or a good video can allow viewers to quickly enter the situation and obtain product functions and information. FORYU DESIGN is not only good at product design, but also has long-term experience in photography.

Whether it is B2B or B2C through photography, it is one of the important needs.





## Package Design

Packaging design is the best medium to convey information. In addition to the protection of the product, we can clearly express the information of the product through the graphics, text and layout on the packaging. In addition to the text, other materials need to be obtained. Present the best picture by matching it with photography.





## LOGO Design

To be honest, LOGO design can be very simple but also very knowledgeable.

For FORYU DESIGN, the most important thing about LOGO is memory and recognition. Anyone who sees the LOGO can directly associate with which company and its characteristics.

The LOGO design is mainly divided into four stages:

### 1. Demand

Through one-on-one discussions, fully understand the needs of the client, such as only needing pattern design, or wanting to design a whole set of VI, including the production of peripheral products, etc.

### 2. Style





There are many styles of Logo design, including text style, abstract style, retro style, etc. Style is not only a feature, but also represents the personality and core of the company.

### 3. Proposal

After determining the required design elements, FORYU DESIGN will start to design. The first stage is based on the appearance style, and the second stage will add color schemes to express the visual performance of the application.

## DESIGN ELEMENT

Material for innovation.

| 圖示參考<br>Reference                                                                   | 中英文字<br>Company Name                                                                                                                                                                                  | 背景故事<br>Background Story              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|  | 賦宇設計<br>FORYU DESIGN                                                                                                                                                                                  | 設計 / 製造 / 行銷<br>企業強而有力的支撐             |
| 意象參考<br>Express Image                                                               | 風格呈現<br>Design Style                                                                                                                                                                                  | 色彩計畫<br>Color Plan                    |
|  | Line Style<br><br>Two Color<br> | Gray<br>White<br>Blue<br>Beige<br>Red |

## PROPOSAL

Choose what you like.



|                        |              |                   |
|------------------------|--------------|-------------------|
| 華康細圓體                  | 賦宇設計標準字體     | F                 |
| 華康中圓體                  | 賦宇設計標準字體     | R:50 G:50 B:50    |
| 華康粗圓體                  | 賦宇設計標準字體     |                   |
| Century Gothic Regular | FORYU DESIGN | F                 |
| Century Gothic Bold    | FORYU DESIGN | R:250 G:250 B:250 |

## BRAND PLANNING

Systematic planning is professional performance.





#### 4. Finishing

Finally, we will organize all the progress, proposals and content in the process into a project for you. Even if there is any subsequent modification or reference, it can be continued from the process.



COMFORT, RELAX, ENJOY



+



COFFEE, DELICIOUS, ATTRACTIVE

||



|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|  | R: 64 G: 33 B: 15<br>C: 50 M: 70 Y: 80 K: 70   |
|  | R: 169 G: 116 B: 59<br>C: 40 M: 60 Y: 85 K: 0  |
|  | R: 221 G: 177 B: 130<br>C: 15 M: 35 Y: 50 K: 0 |





# Product Video

With the development of the Internet and trends, video has become an indispensable marketing material. Whether it is advertising, product introduction or even brand image, it is necessary to attract customers' attention, enter the situation and obtain information through video.

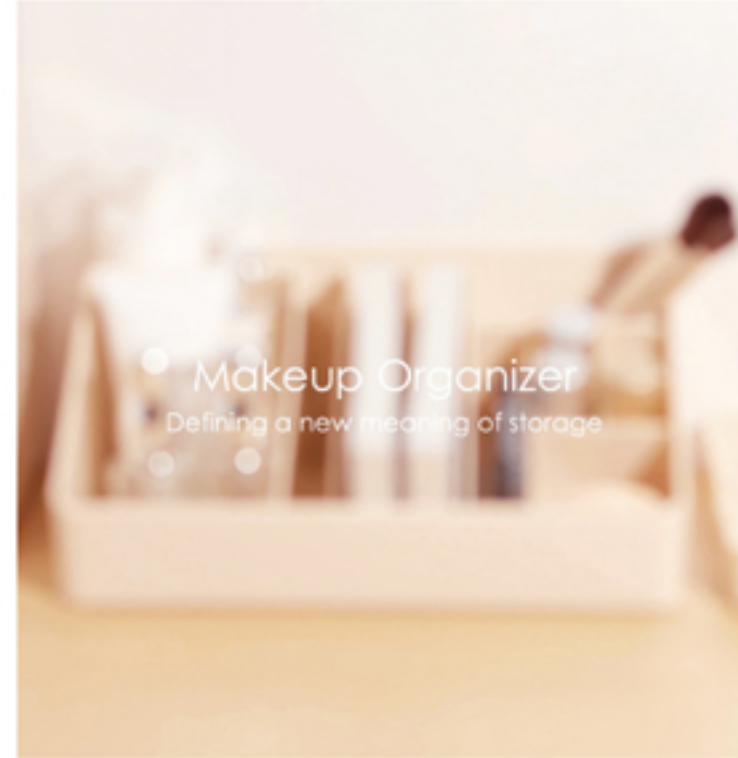
Compared with text and pictures, videos can receive information more quickly, so we provide Corporate Video, Description Video, Advertisement and Unboxing Video services for commonly used commercial videos. We can shoot for you as long as you provide products and design requirements and styles. .



Corporate Video



Description Video



Advertisement

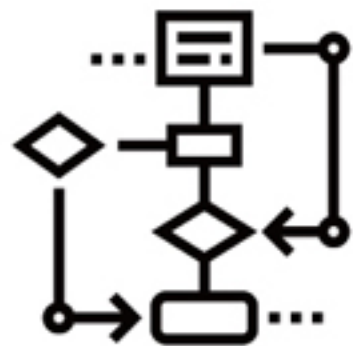


Unboxing Video





Design Requirement



Storyboard



Filming



Film editing

|                     |    |
|---------------------|----|
| Corporate Video     | 83 |
| Product Description | 83 |
| Advertisement       | 84 |
| Unboxing Video      | 84 |

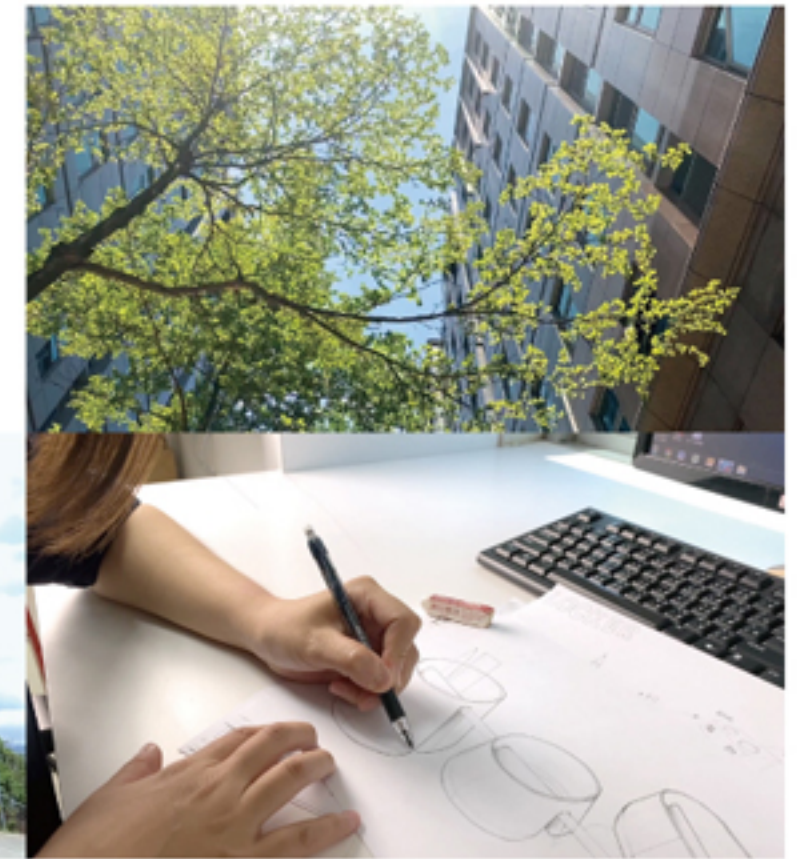


## Corporate Video

In recent years, due to the rise of new media and the trend of the Internet, video has become one of the necessary materials. It can be expressed quickly through video presentation.

The most important thing is that video can clearly express every action, which cannot be expressed by photos.

Corporate video is a way for viewers to quickly understand corporate culture, which not only allows viewers to understand, but also deepens their impressions.



## Product Description

Product Description can be said to be the most common shooting content in commercial videos. We can express the use of products, use cases, and even product details and textures through videos.

In addition, you can extract fragments from the Product Description as creatives, which is very important in crowdfunding.





## Advertisement

The biggest difference between Advertisement and Product Description is that Advertisement must accurately express the characteristics of the product in the first 5 seconds of the video.

Through statistical research, it is found that if watching the advertisement does not arouse interest and favor within 5 seconds, the viewer will skip it. However, the score of the ad will be lowered, which will affect the delivery effect.



## Unboxing Video

In addition to accurate advertisements and descriptions of situational performance, detailed unboxing introductions are also common types of videos.

If you are a B2B company, Unboxing Video can let buyers know the packaging content and product features in detail. If you are in the B2C market, users can know how to use the product through unboxing video, instead of just imagining and guessing how to use the product.





# Other Service

In addition to design, we also provide one-stop services, such as manufacturing, assembly and packaging after product design. Or packaging design, commercial photography and product videos are required after product design. Even crowdfunding, community platform management and online marketing operations, etc., you can develop customized services exclusively for you by contacting us to discuss.



Manufacturing



Assembly



Packaging

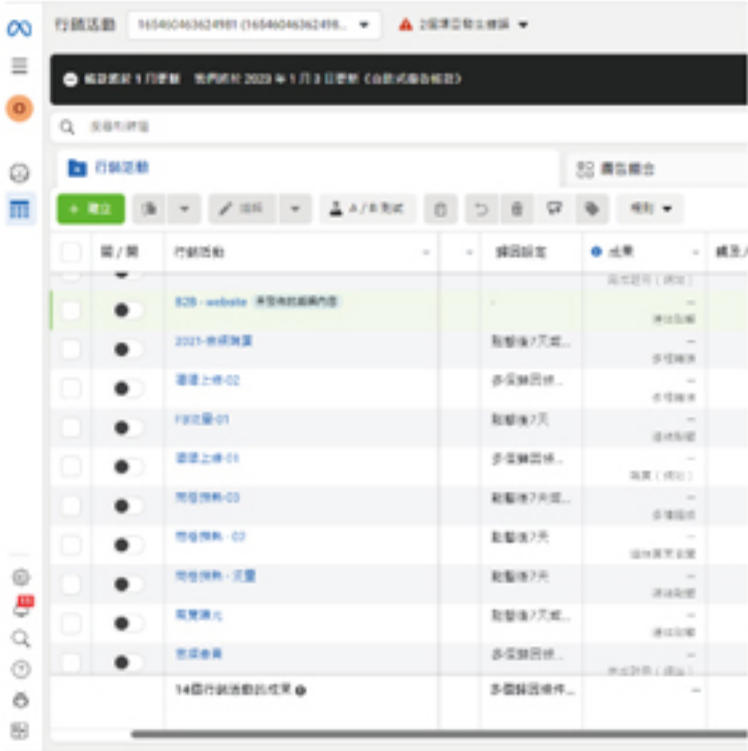


Export Agent





Crowdfunding



Internet Marketing

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Consultant



Online Shop



## Crowdfunding

One of the best ways to test the market.



Crowdfunding is a modern method of testing market demand and we have full experience with crowdfunding!

Crowdfunding is mainly divided into two stages, namely the preparation stage and the marketing stage.

### Preparation stage

The most important thing in the preparation stage is to determine the market positioning and the preparation and production of materials. Produce relevant videos and pictures for the target customer group and provide them for use in the marketing stage. The purpose is to make the public interested in purchasing within a limited time.

### Marketing stage

The marketing stage can be said to be the stage of officially entering the battlefield. Whether it is through online marketing or physical marketing, it is necessary to accumulate a marketing list within a limited time. The purpose is to quickly reach potential customers when starting crowdfunding Send information.

If you are interested in the preparation stage or marketing stage of crowdfunding, you are welcome to contact us and customize exclusive services for you.





## Manufacturing

FORYU DESIGN In addition to providing design services, we also have the ability to manufacture. Among the many materials and processing methods, plastic injection is our best specialty. With years of experience and professional knowledge, quality is the key we attach great importance to, so all products are designed in Taiwan and made in Taiwan.



## Tainan Factory

Size : 900 square meters

Professional Injection ( machine : 8 )

Machine Capacity : Maximum 190 tons

Production Capacity / per day : 9600 sets





## Assembly

Even with the development of industrial technology and the trend of AI artificial intelligence, we still insist on the manual assembly method, because the machine is an unchanging repetitive action, and the advantage of manual assembly lies in the details. In addition to the attentive and careful assembly, the attention to detail is our We attach great importance to the core, because we insist on providing the most perfect products.

## Packaging

The same is true for packaging, and in addition to paying attention to details, we have more flexible ways of changing packaging. For example, when a customer needs a color box, and another individual wants to use shrink packaging, our production line can quickly change Cope, that's something a robot can't do.

## Taipei Factory

Size : 700 square meters  
Professional Assembling  
Quality Management  
Packing & Shipping





## Export Agent

Finally, we also provide purchasing agency services. According to our many years of export experience, purchasing agents are certainly not a problem. Whether you have a confirmed Taiwanese manufacturer or are looking for products made in Taiwan, we can help.

In addition to our experience, our headquarters in Taipei has a loading and unloading dock, and various manufacturers can gather goods to our headquarters for packing and shipment.







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