

Home Automation Products

for **TANLA Solutions Ltd.** Hyderabad
as **Summer Project** from 5 May to 5 June 2008.



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About the Company



- **Tanla Solutions**, a listed company, founded in 1999.
- Software development center at **Hyderabad**, India and worldwide marketing office in the UK.
- Dynamism, Innovation, Vision, Focus on quality and Continuous research are the **prime movers** for the company.
- **Services provided**
 - **Telecom Infrastructure Solutions**
 - **Customized Software Development**
 - **Mobile solutions** through wholly-owned subsidiary 'Tanla Mobile'
Global provider of mobile commerce, mobile entertainment, mobile marketing and advertising across Europe, North America, Africa, Middle East and Asia having offices in Colombo, Dubai, Dublin, Hyderabad, London, New York and Singapore.

Scope of the project

As the company is having strong presence in the field of telecom infrastructure solutions and customized software development, the management decided to **expand the product line by introducing home automation products** for the domestic as well as the international market in different phases. They had **already developed the required software and the internal hardware for the products.**

Our role was limited to the **External Styling** of the products.

As the production quantity was very small, foreign manufacturers (China and Taiwan) were considered for the same and the products were designed accordingly.

Photo-realistic renderings was the main tool for the presentations and internal approvals.

Mock-up models were presented as the final outcome of the project.

Scope of the project - Product list

- Apartment Control Panel
- Main Door Panel
- Universal Remote with display (26+5 keys)
- Room Remote (8 keys)
- Wired Impact Sensor
- Wireless Impact Sensor
- Panic Switch
- Set Top Box
- IR Sensor

The Methodology

- Project Brief
- Market Survey of the similar existing products
- Image Board
- Approval from the company
- Refined project brief
- Idea generation
- Discussions with the CEO and Senior Management
- Refined ideas
- Product renderings
- Presentation and approval from the management
- Mock-up models
- Documentation

Project Brief

To design **high quality home automation system** with different products having **family look**, within the **given constraints**, which satisfies the **user needs** in terms of **usability** and **aesthetics**.

- Ease of use
- Interaction
- Physical appearance, looks
- Brand Identity

Users of the system

- Primary users - Households
- Installation personnel
- Repair/ maintenance personnel

Market Survey



Scene selector/ Remote



Scene selector/ Remote



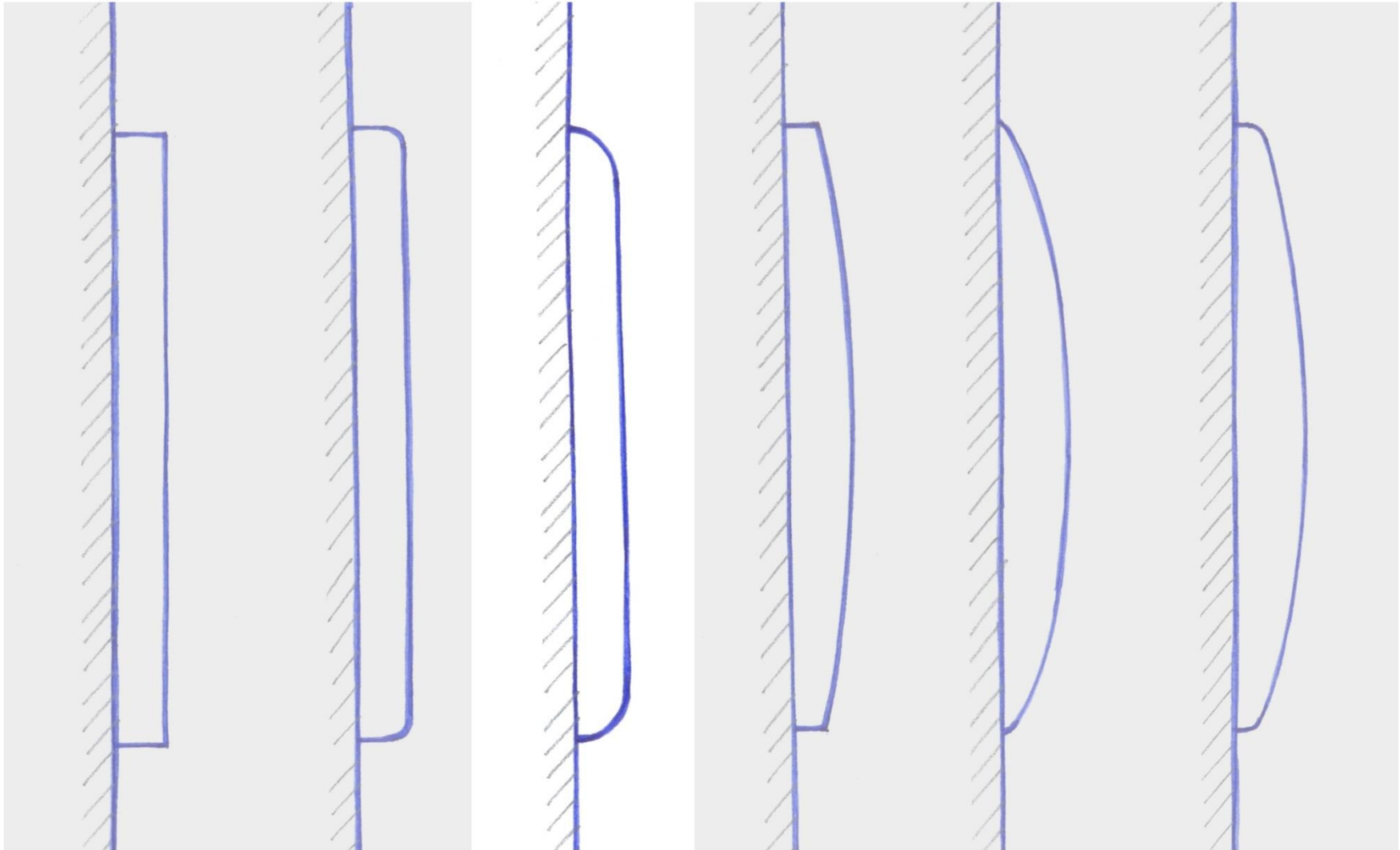
Switches and IR Sensors

Home Automation Products by **Legrand**

Inferences

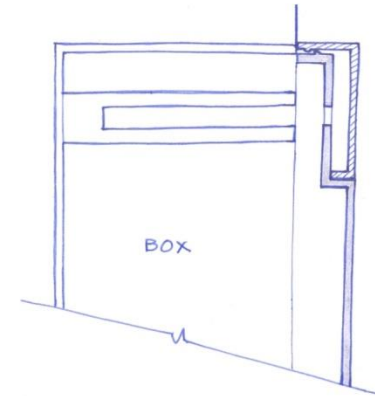
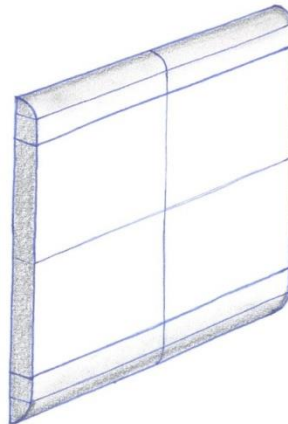
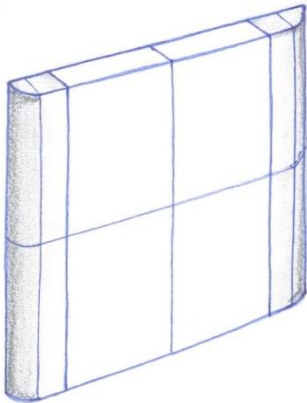
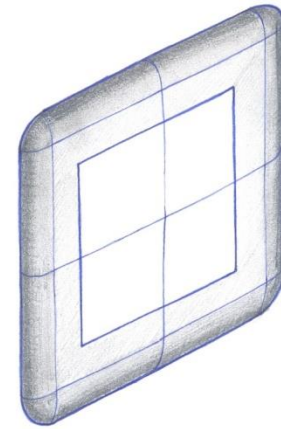
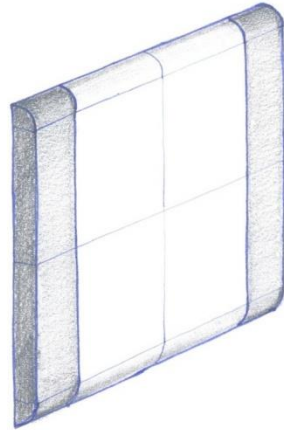
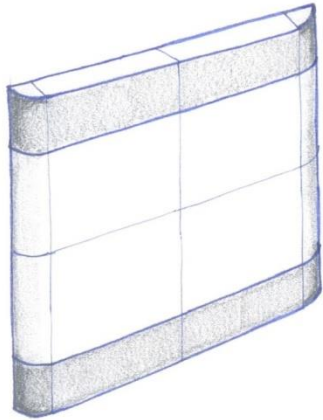
- The home automation products are being looked up as **high-tech lifestyle products**.
- All **imported products**
- The **Indian market** for home automation products is at **very early stage**
- **More companies coming in** like Anchor, L&T, etc.

Initial sketches



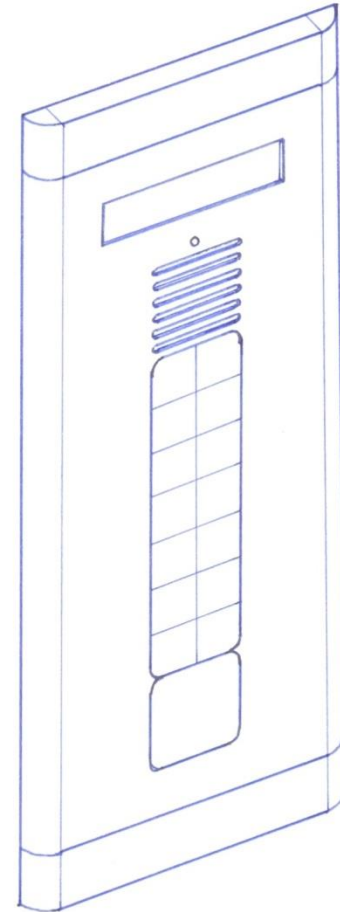
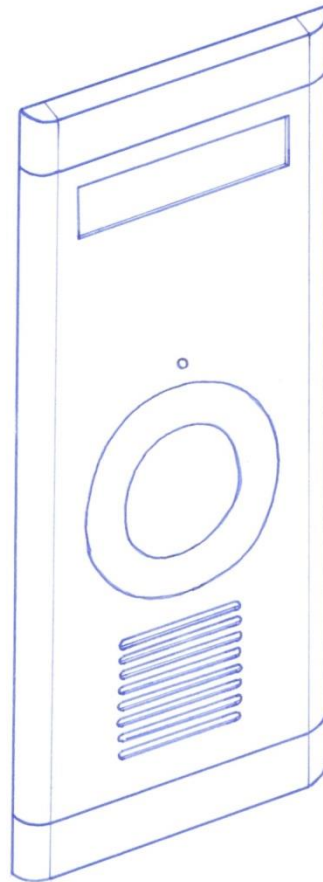
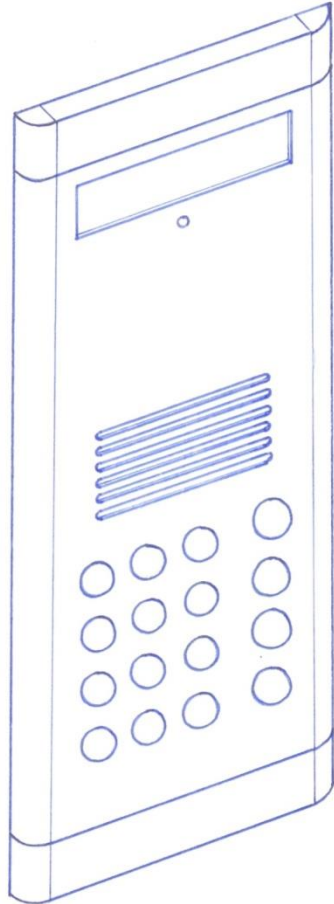
Fascia Plate - Cross Section

Initial sketches



Fascia Plate

Initial sketches



Main Door Panel

After the discussion with the CEO

Overall visual language for the products-

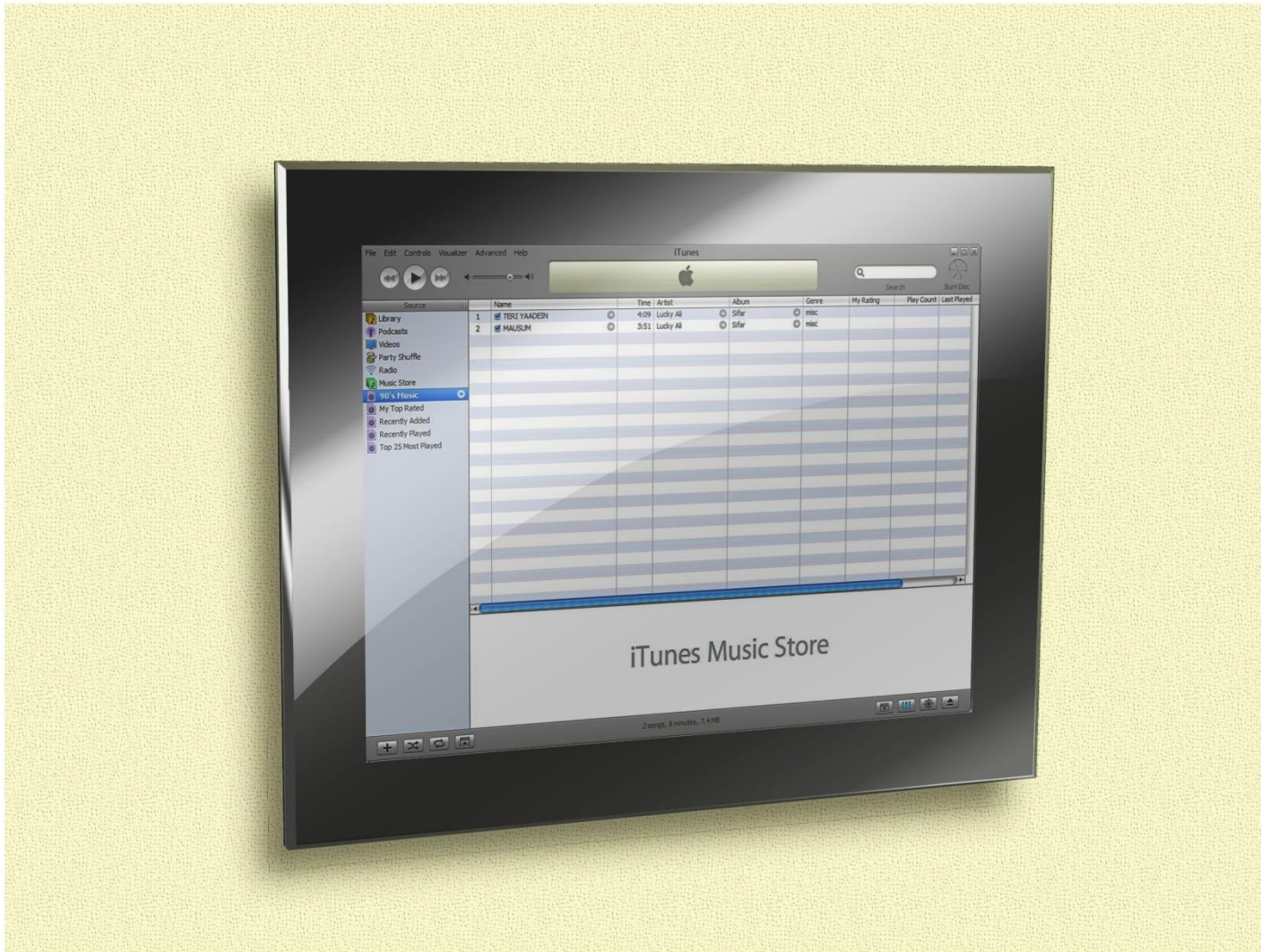
- Sleek but robust
- User friendly
- Simple lines
- Does not call for attention except the ACP
- No round buttons to be used

Apartment Control Panel (ACP)



Rendering
Option 1 - Straight edges

Apartment Control Panel (ACP)



Rendering
Option 2 - Chamfered edges

Apartment Control Panel (ACP)



Mock-up model
Option 1 - Straight edges

Apartment Control Panel (ACP)



Mock-up model
Option 1 - Straight edges

Apartment Control Panel (ACP)



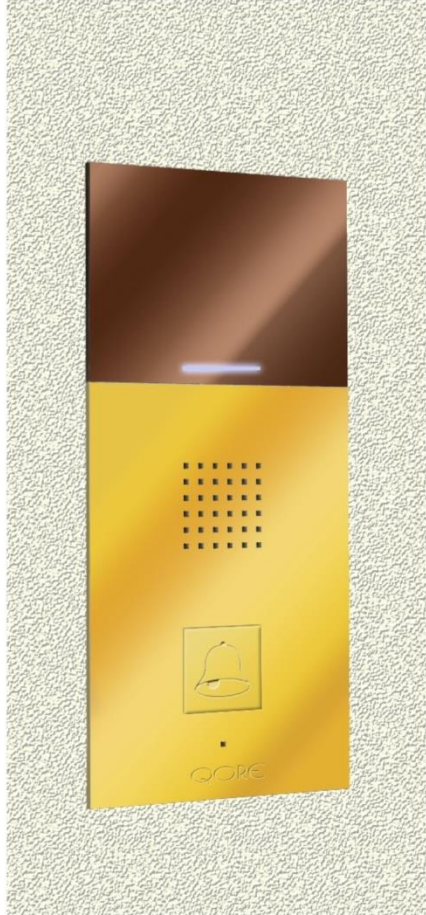
Mock-up model
Option 1 - Straight edges

Apartment Control Panel (ACP)



Final Mock-up model

Main Door Panel (MDP)



Option 1



Option 2



Option 3



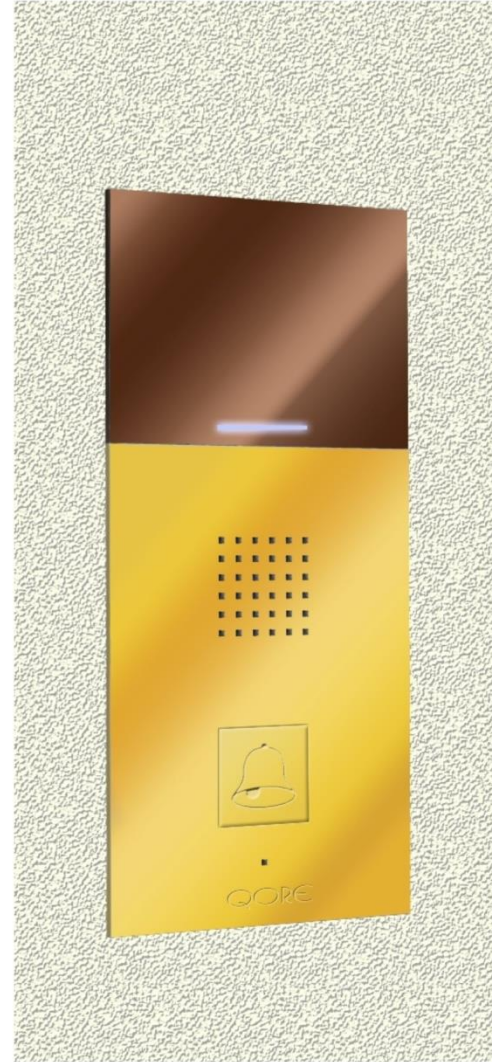
Option 4

Renderings

Main Door Panel (MDP)



SS Special Finish - Silver



SS Special Finish - Golden

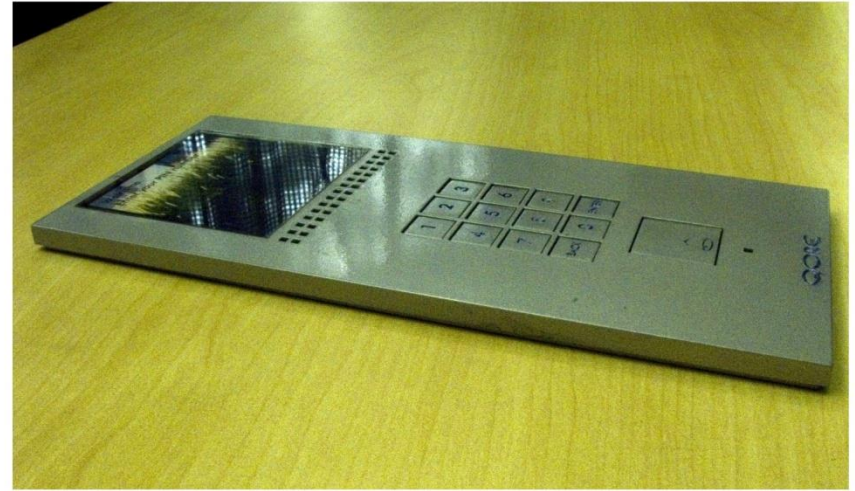
Renderings
Coloring options

Main Door Panel (MDP)



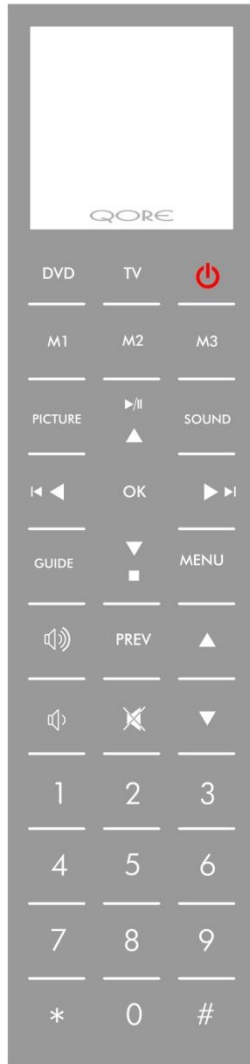
Mock-up models
Option 1 and 4

Main Door Panel (MDP)

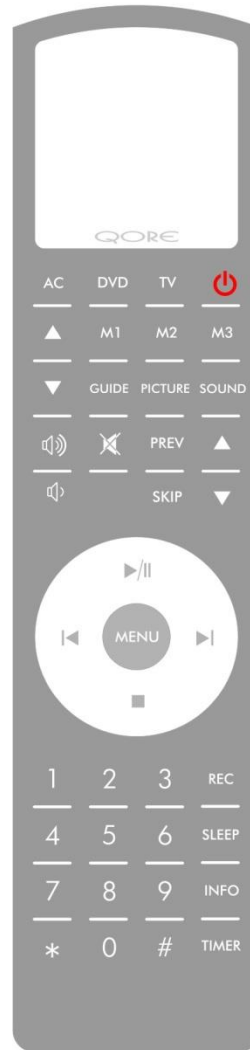


Final Mock-up models

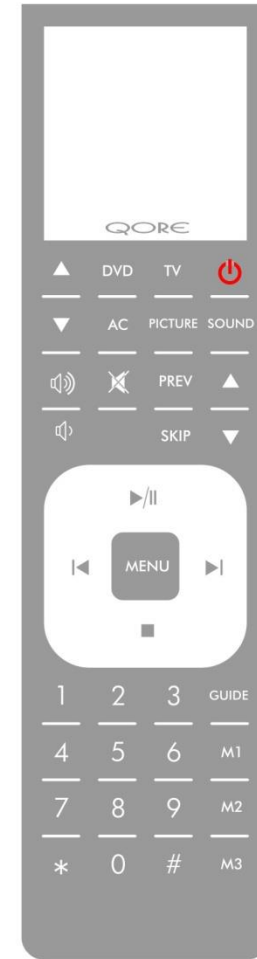
Universal Remote



Option 1



Option 2



Option 3

Renderings

Universal Remote



Rendering
Option 2

Universal Remote



Rendering
Option 2-a

Universal Remote



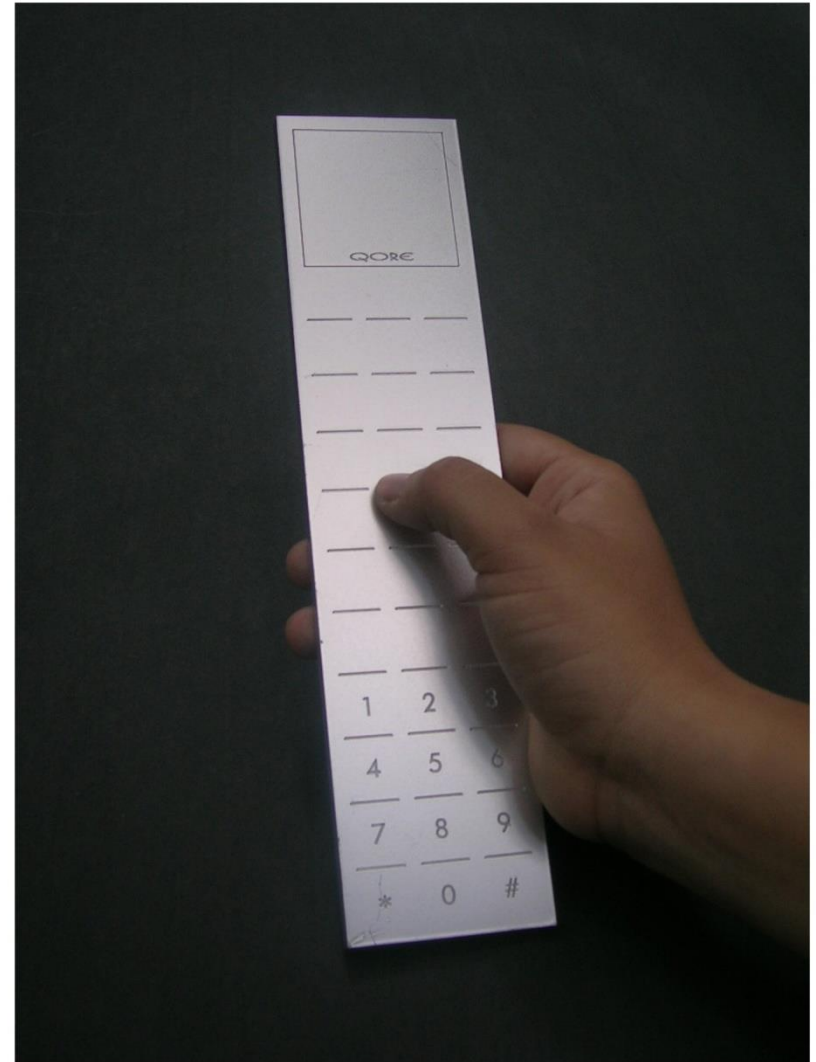
Rendering
Option 3

Universal Remote



Rendering
Option 3-a

Universal Remote



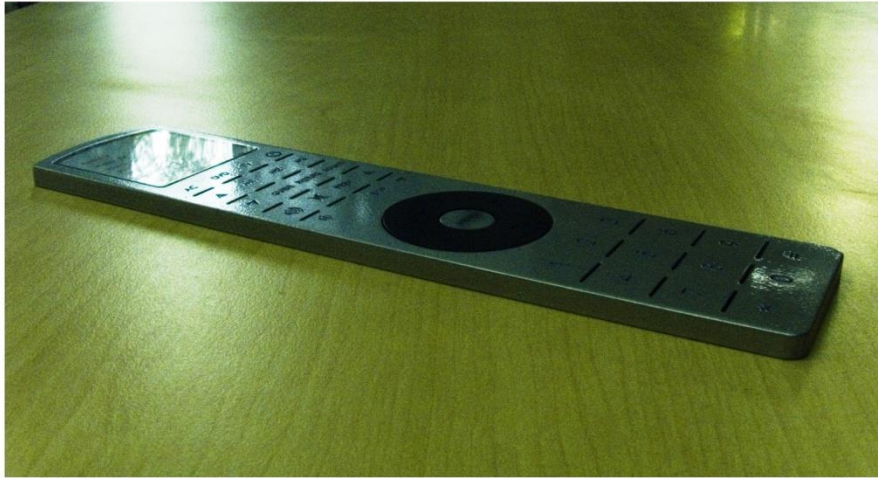
Mock-up model
Option 1

Universal Remote



Mock-up model
Option 2

Universal Remote



Final Mock-up models

Room Remote



Rendering
Option 1

Room Remote

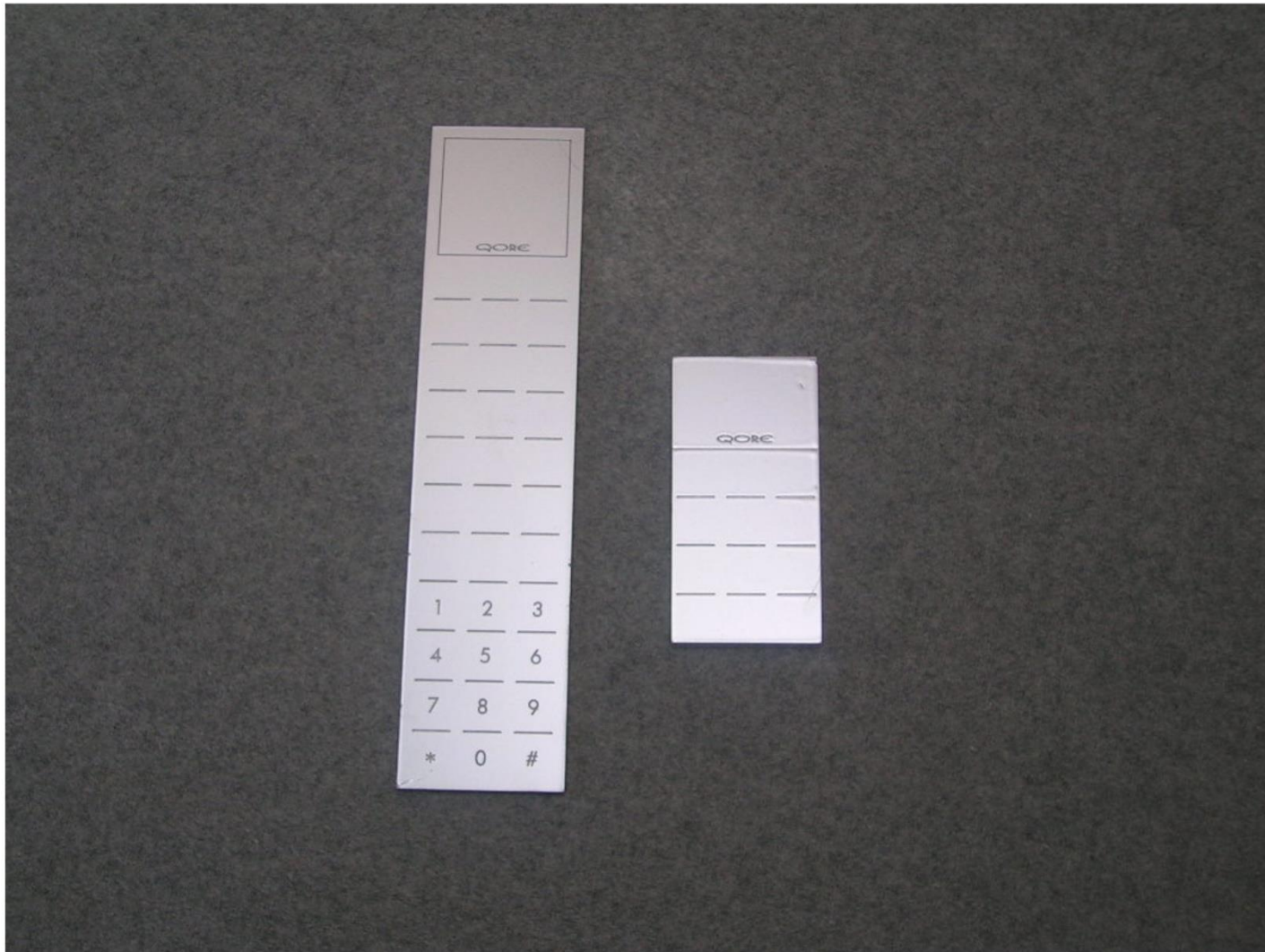


Rendering
Option 1-a

Room Remote



Mock-up models
Option 2 and 3



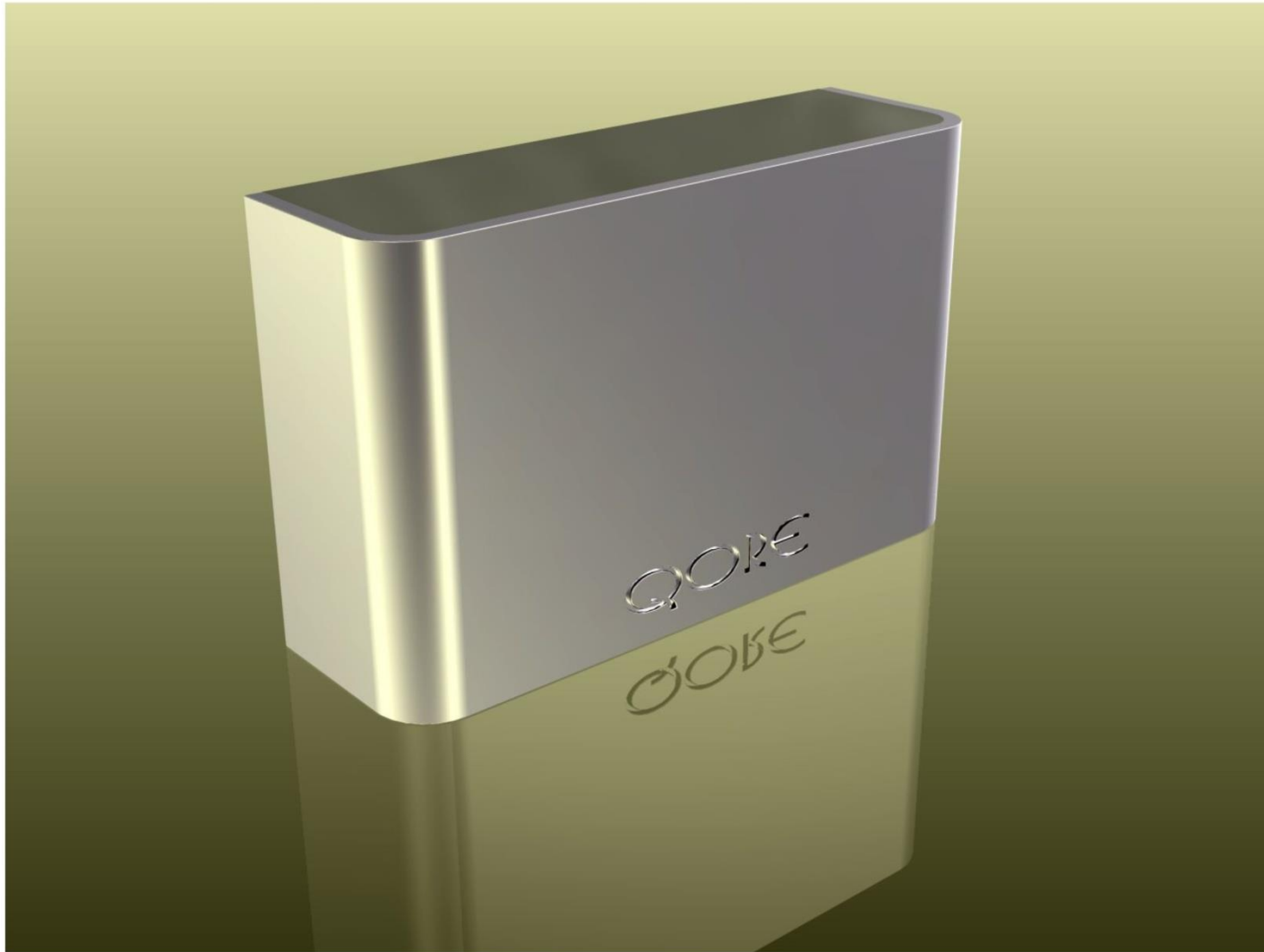
Mock-up models

Wired Impact Sensor



Renderings

Wired Impact Sensor



Rendering
Option 1

Set Top Box (STB)



Rendering
Option 1

Set Top Box (STB)



Rendering
Option 2

IR Sensor



Rendering
Option 1

IR Sensor



Rendering
Option 2

IR Sensor



Rendering
Option 3

IR Sensor



Rendering
Option 4

Key Learnings

- **Interact with the top guys - Always**
- **Difference** between academic and professional **design processes**
- Keep an eye on the **shop floor activities**
- Try to **fit in a team** rather than working as an individual

Thank You...