

# Project I

## Presentation

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Maharashtra, India





design



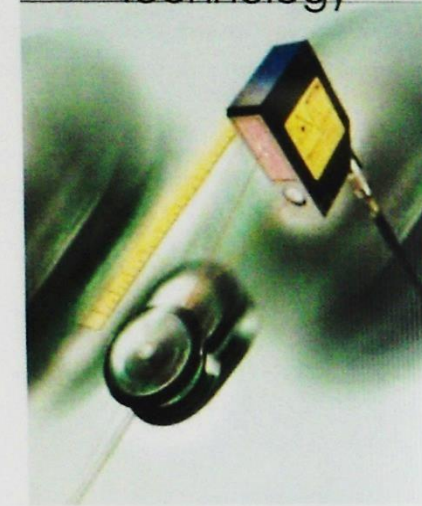
user interface



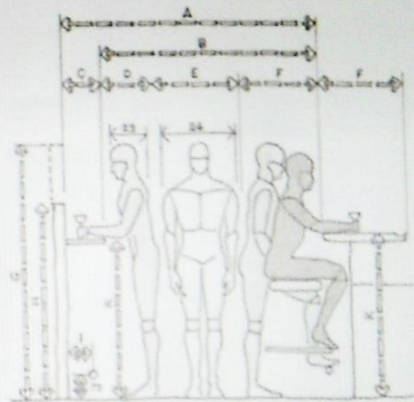
art



technology



ergonomic



user centered



विंग्ज् ४४

wings 44



manufacturing



D - 44, M.I.D.C., Shirol, Near Lokmat Press, Kolhapur - 416122. Maharashtra, India

PASSION

INNOVATION

PRECISION

CRAFT

industrial design and automation





Industrial cabinets



FIFO Racks



Training Tables



Alkon and Alkosign Products



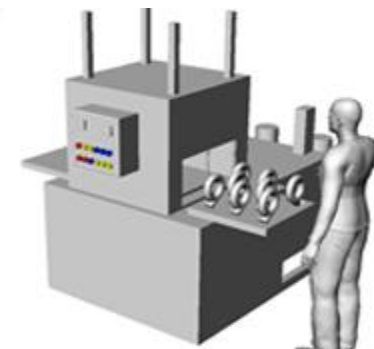
Drawer Unit



Conveyers



Industrial Lockers



Washing Machine



Their products include :

- Industrial cabinets
- Conveyors
- Assembly inspection stations
- Hand tools stations
- FIFO racks
- Industrial washing machine
- Trolleys



# Projects worked on



Home  
Automation

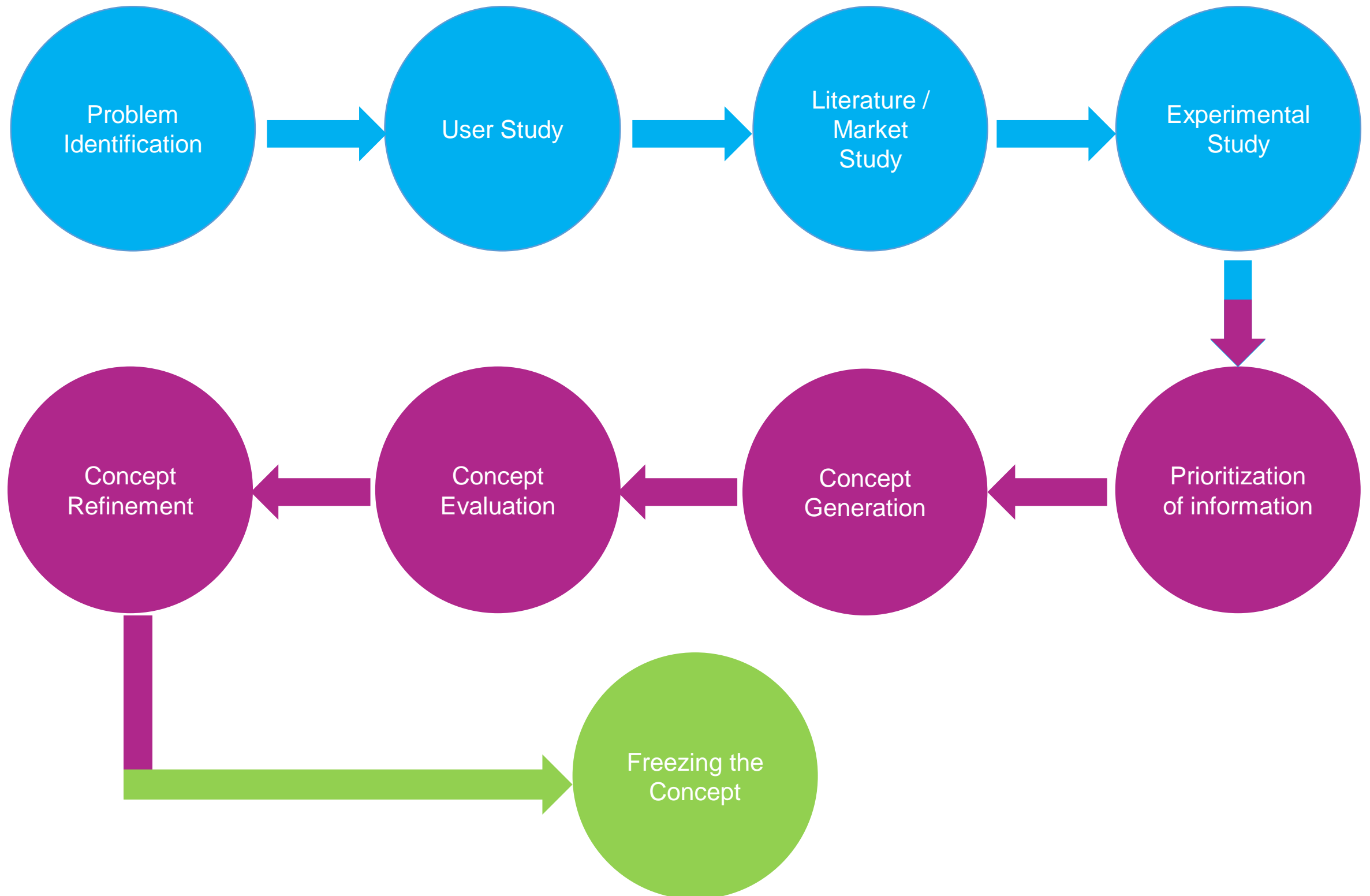
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Robotic  
Arm



Images reference <http://thumbs.dreamstime.com/z/industrial-robotic-arm-isolated-11965235.jpg> ; 07/07/2014

# Design Methodology





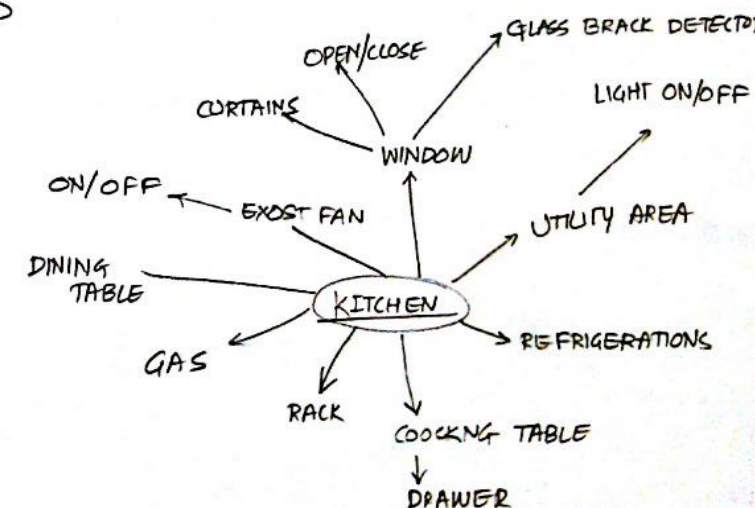
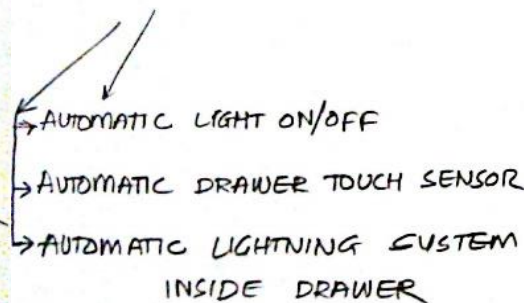
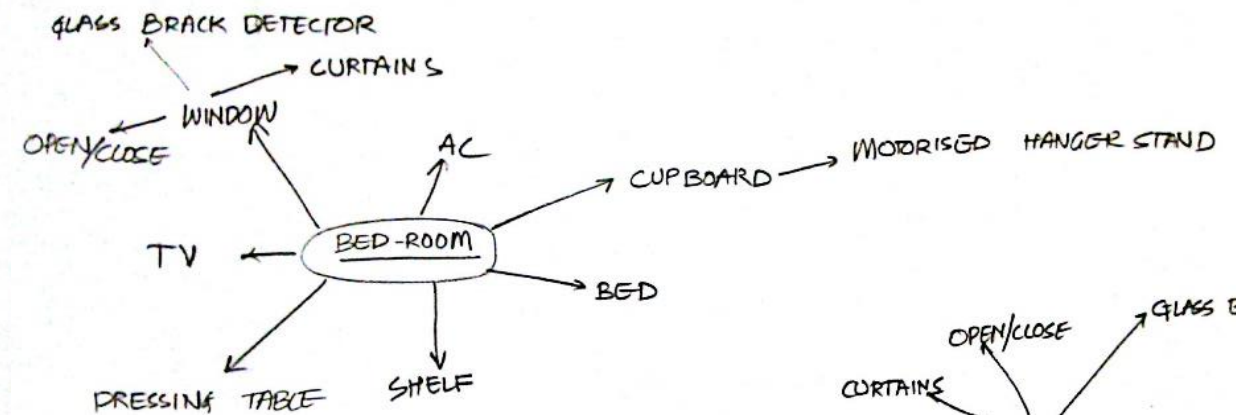
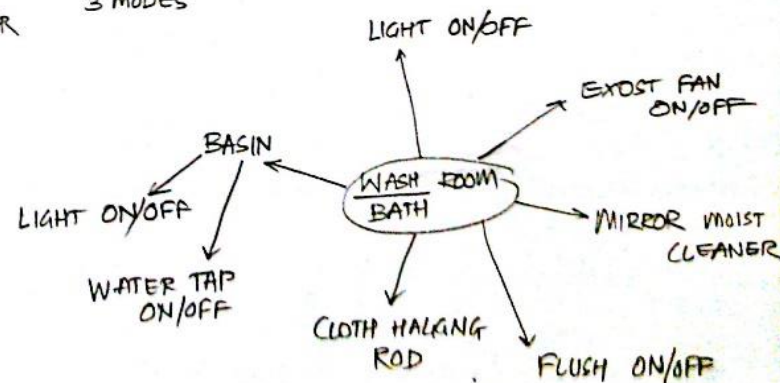
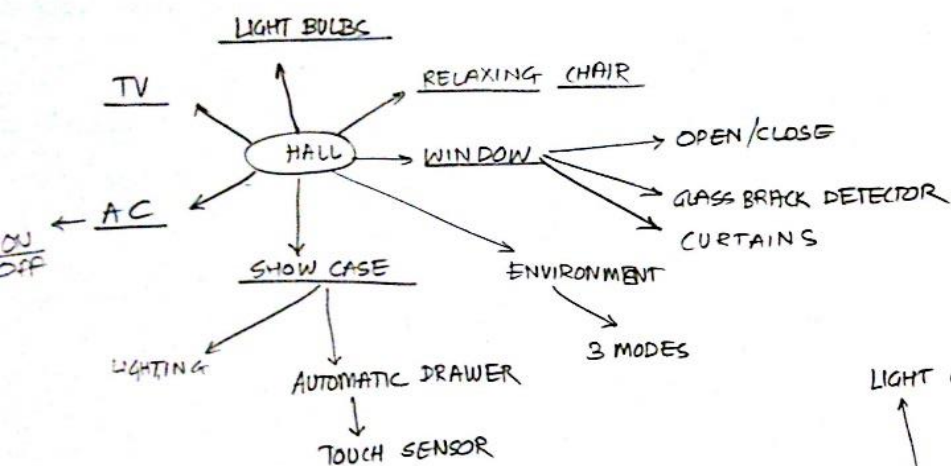
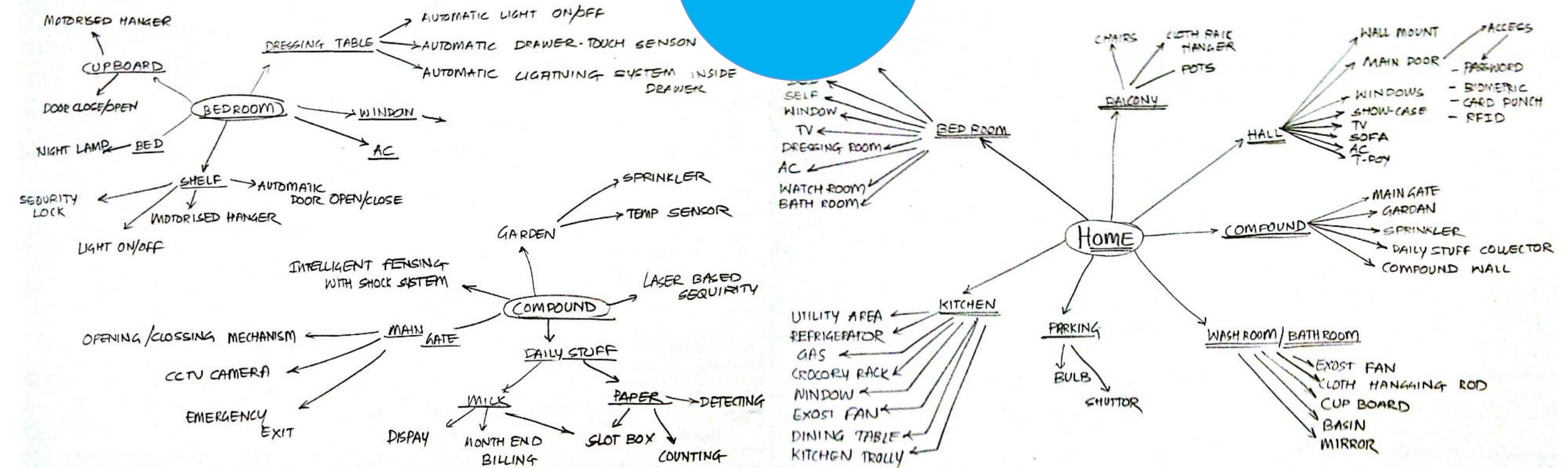
# Project 1 : Home Automation

User  
Study





# Mind Mapping





## Products Proposed

- Centralized Lighting & Load Management System
- Essential Safety & Security system for an Apartment/Home
- Wireless Video Door Phone for an Apartment/Home
- Curtain Control Using Smartphone
- Smart mobile/Tablet application



# Centralized Lighting & Load Management System

The solution offers management of electrical load on any of your belonging, from anywhere in the world. A configurable Smart App that can operate on tablets, smartphones or a web application can be used to control the switches remotely

## Monitor, Manage Your Property Anytime, Anywhere



Central Control system for any Electrical Device in Your Property





# WingsCentral

Centralized  
Control

Manage  
Lighting &  
Other Loads

Smartphone  
/  
Tablet  
Control

Monitor  
Safety  
Sensors

Water Pump

Garage

Compound Light

Generator

Sprinkler



# Essential Safety & Security for an Apartment/Home

This solution enables monitoring of essential safety (smoke, gas leaks) within an individual home or villa through local sound alarms and through SMS, E-mail or Smartphone notifications.

## PRODUCTS



Door Intrusion Sensor

Smoke Sensor

Gas Leak Detector

WingSmart™ App



# WingsSafe for Homes

Fire, Gas  
Sensing

SMS/E-mail  
Notification

Smartphone  
Notification

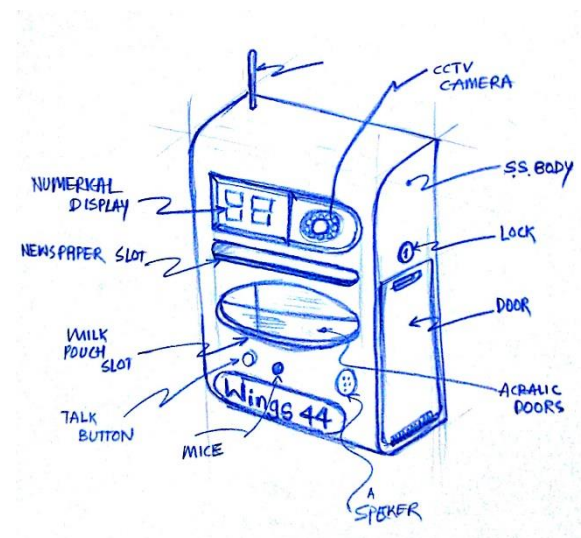
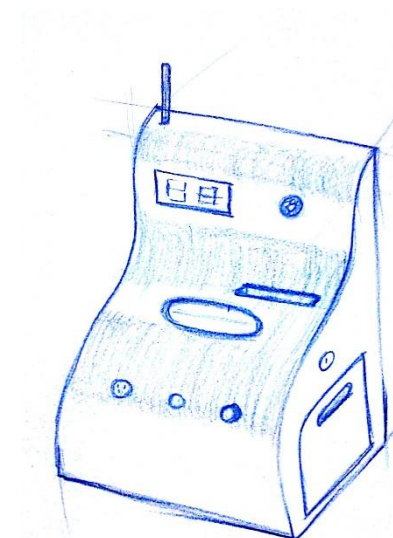
Audio  
Alarms





# Wireless Video Door Phone for an Apartment

This is a wireless video door phone solution for an individual apartment or villa. A camera with integrated doorbell sits next to the front door and enables the resident to see the visitor and have a conversation with them.



## PRODUCTS

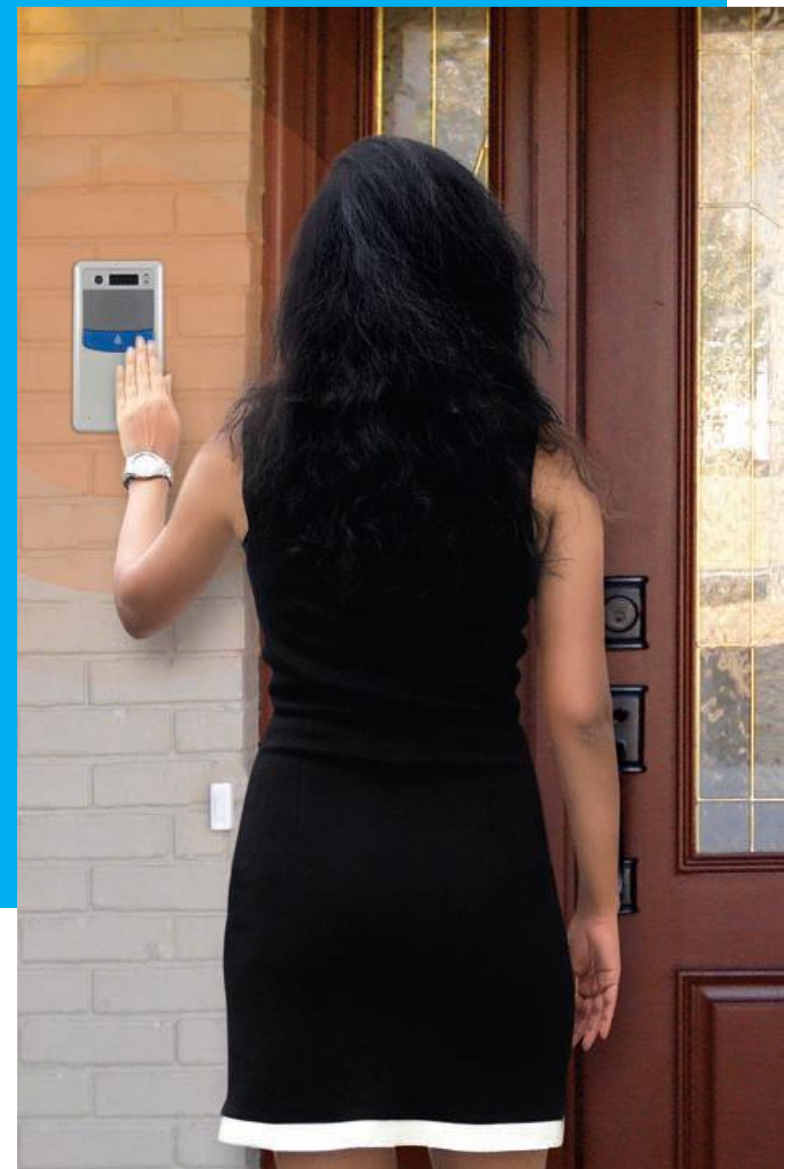


Front Door Camera Phone

WingSmart™ Video Recorder

Electro- Magnetic Door Lock

WingSmart™ App





# WingsView

for Homes

Monitor  
Front  
Door  
Visitors

Access via  
Smartphone/  
Tablet

Unlock Door  
Remotely

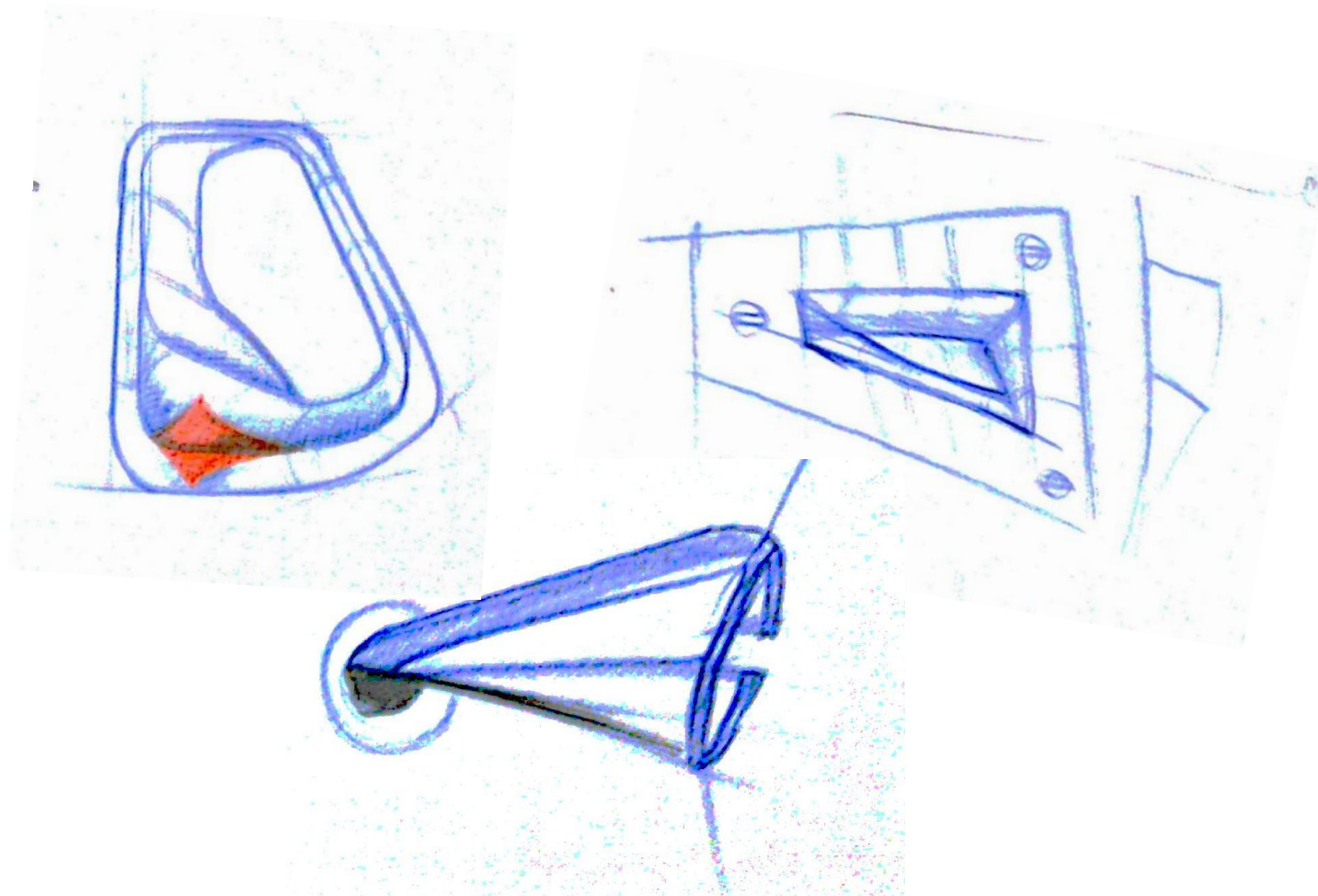
Allows  
Video  
Recording



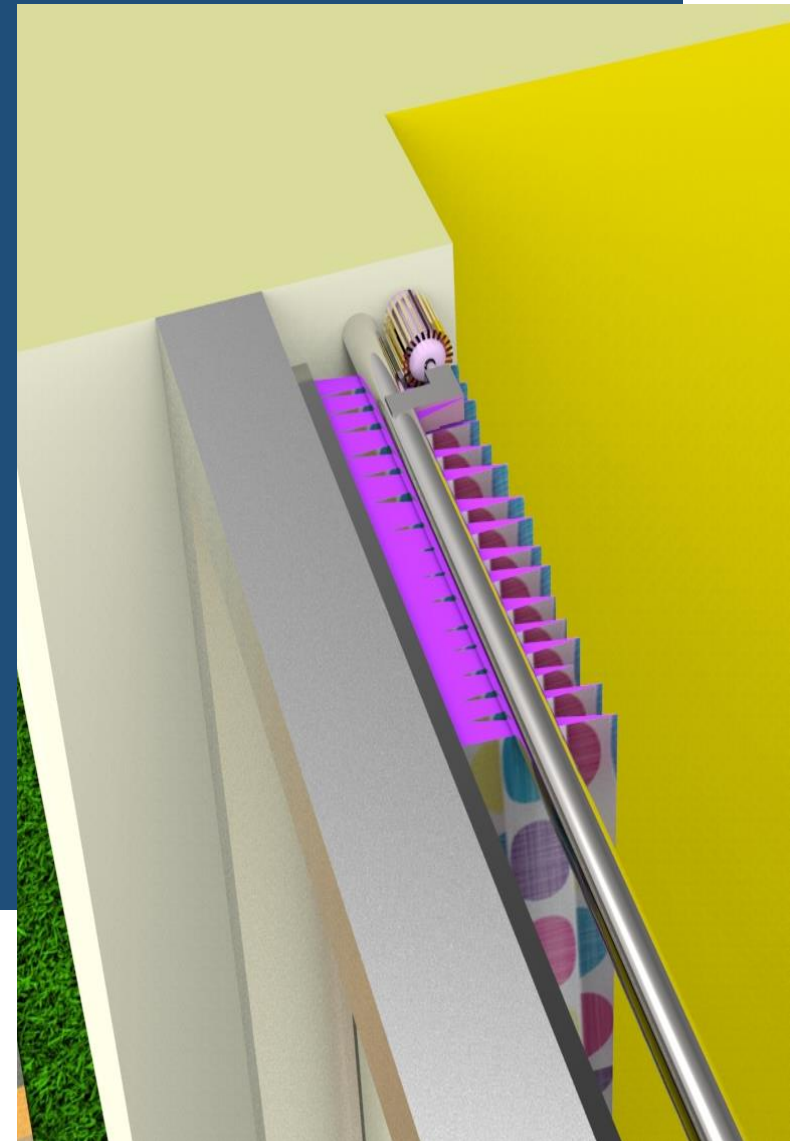


# Curtain Control Using Smartphone

WingsCurtain is a solution that enables automated opening and closing of window curtains



Automate the  
Curtains in Your  
Home



# WingsCurtain

Curtain  
Remotes

Access via  
Smartphone/  
Tablet

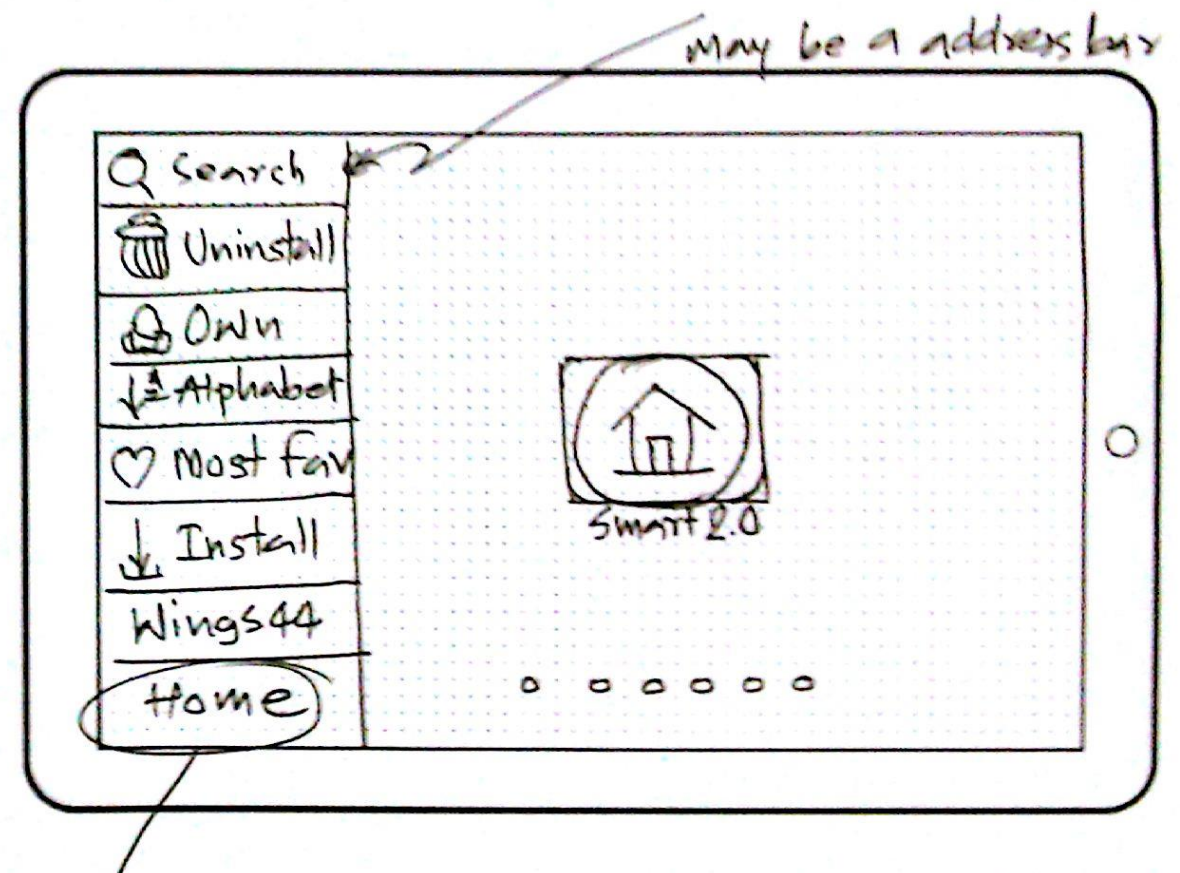
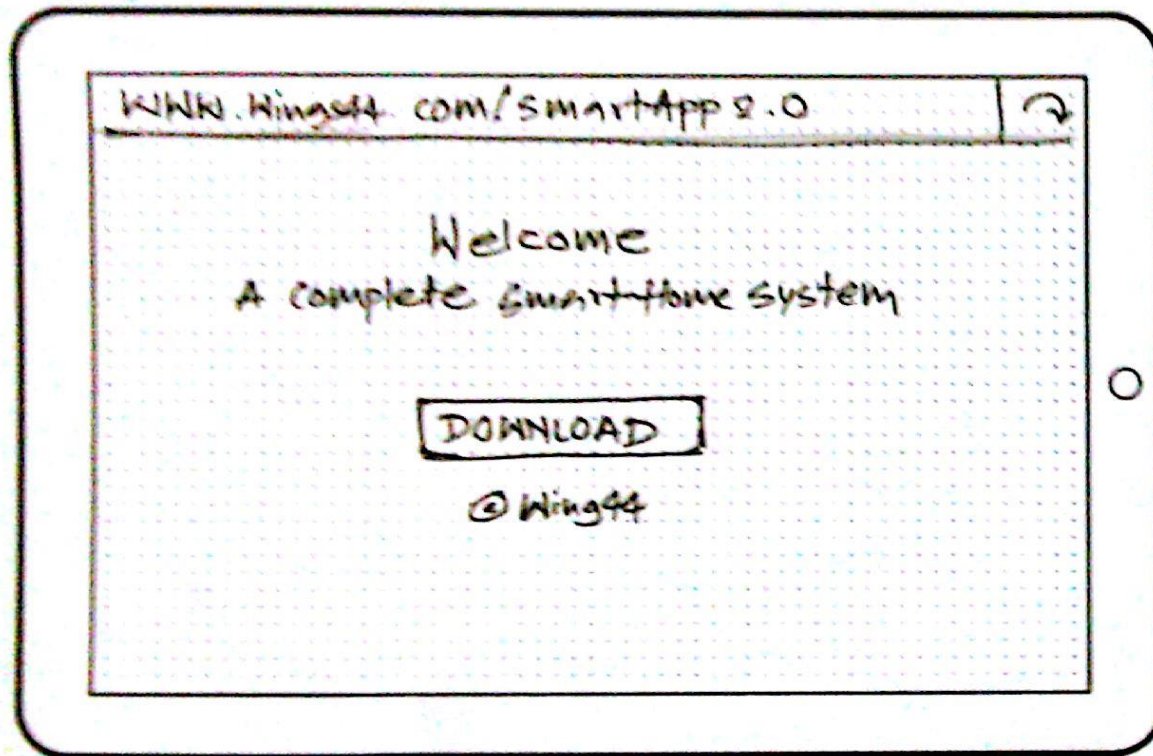
Unlock Door  
Remotely

Allows Video  
Recording

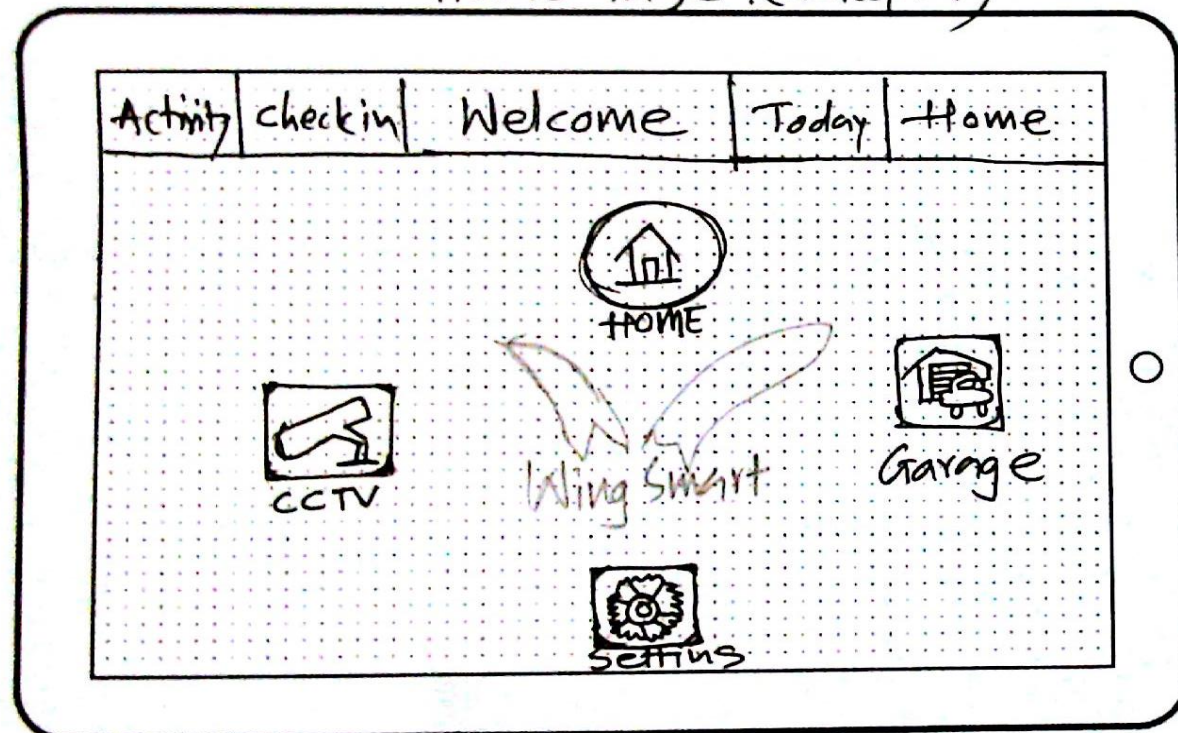




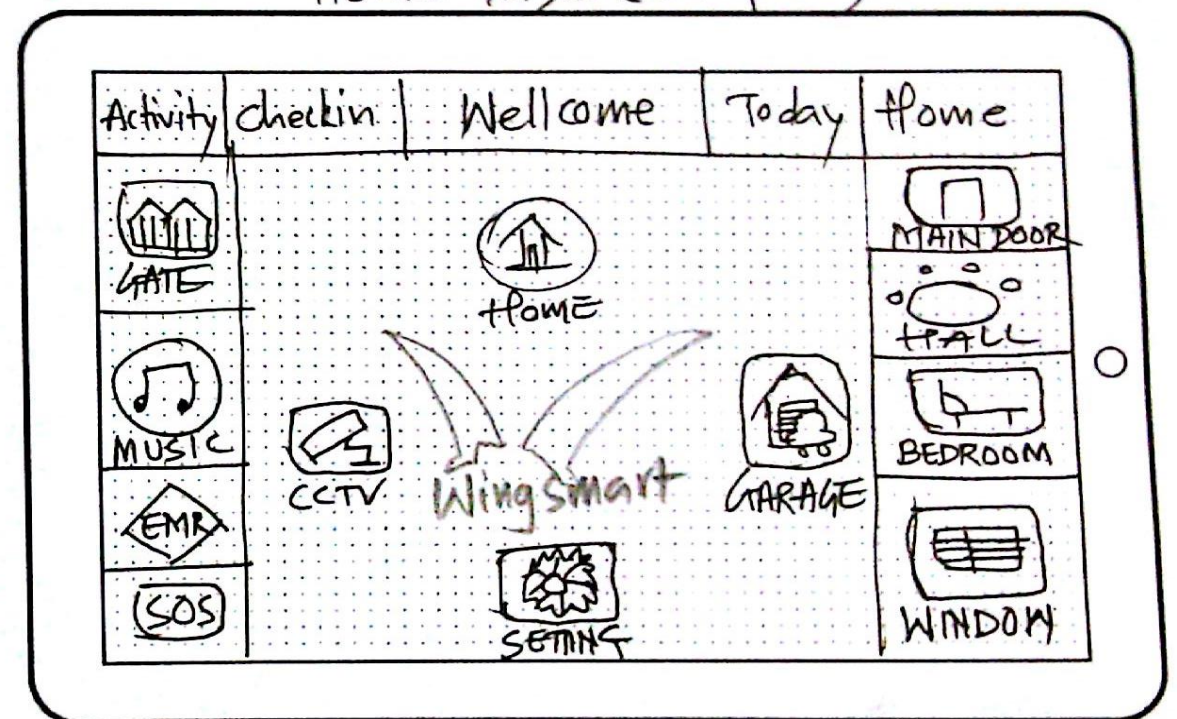
# WingSmart 2.0 App Architecture Design



Home Page (concept 1)

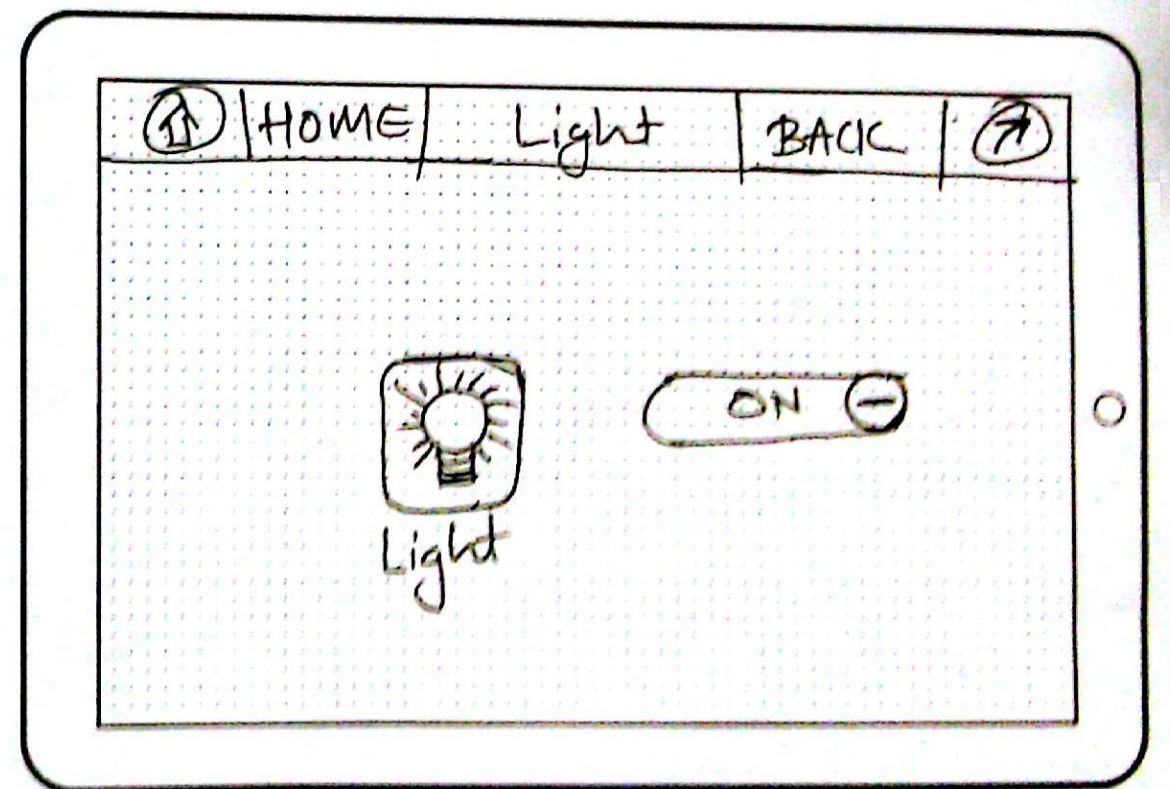
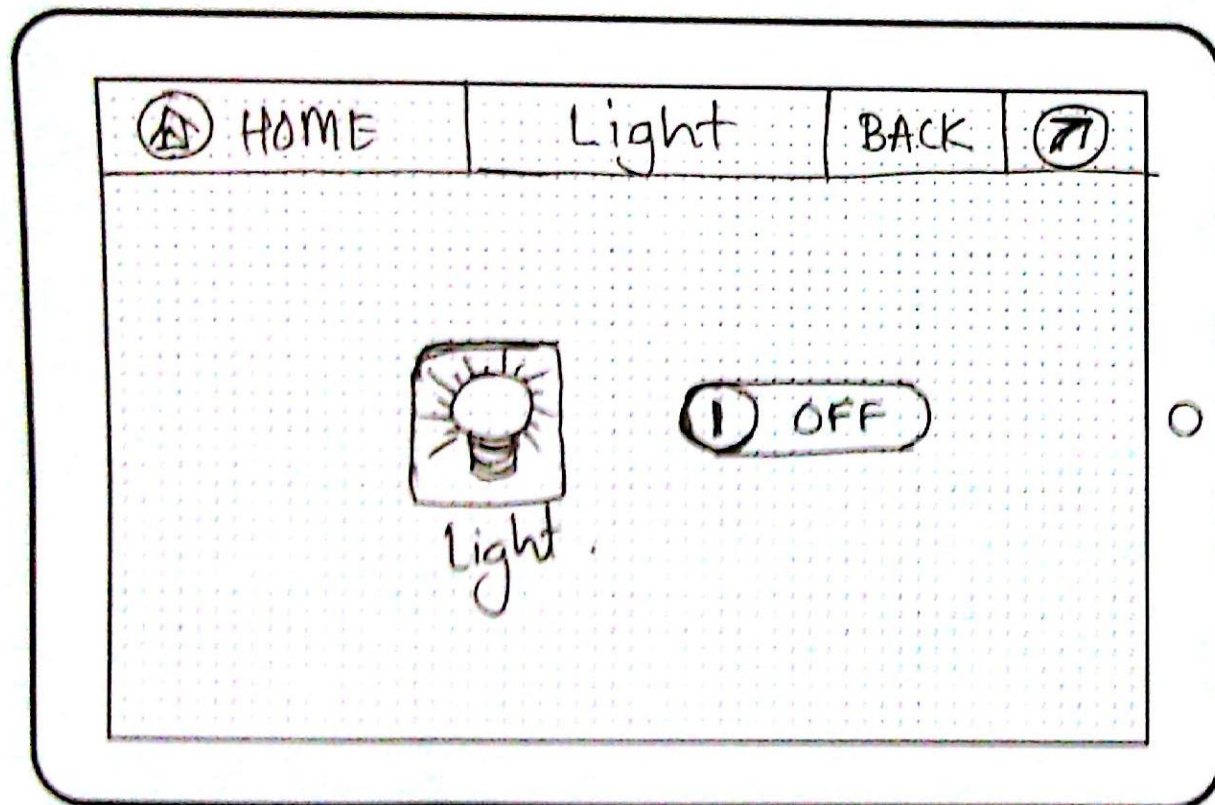
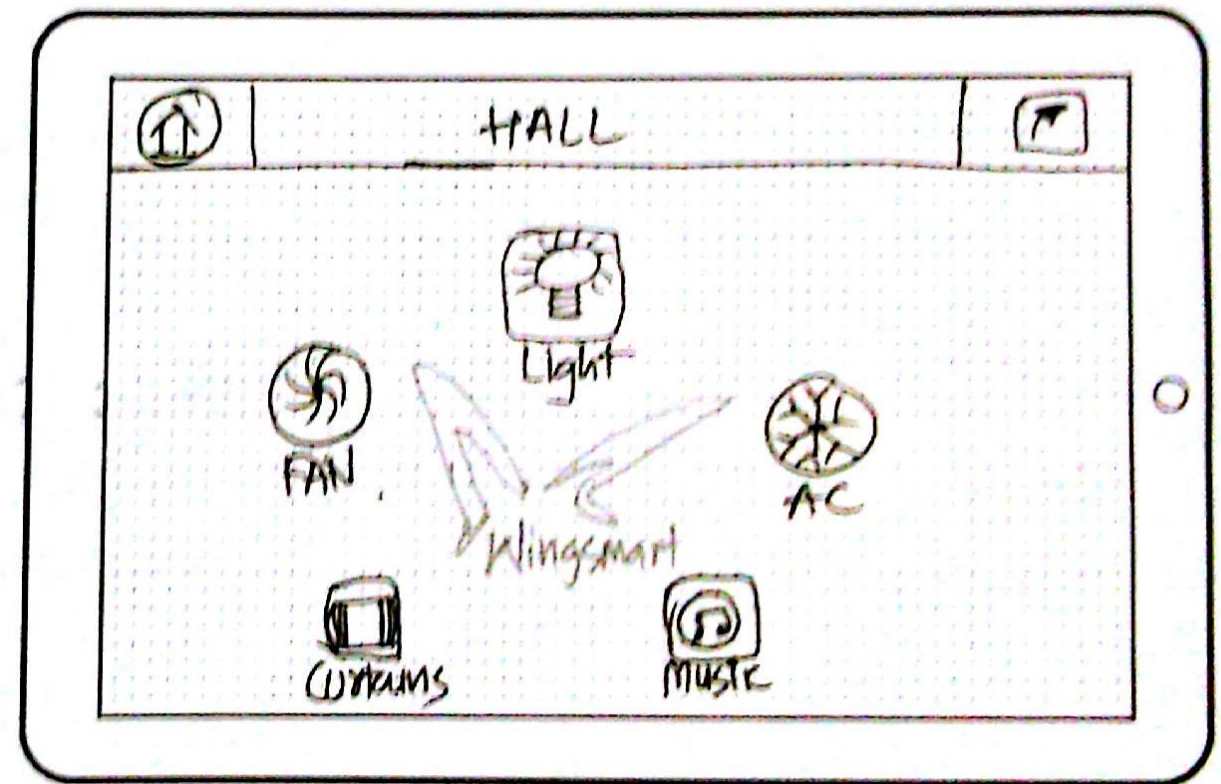
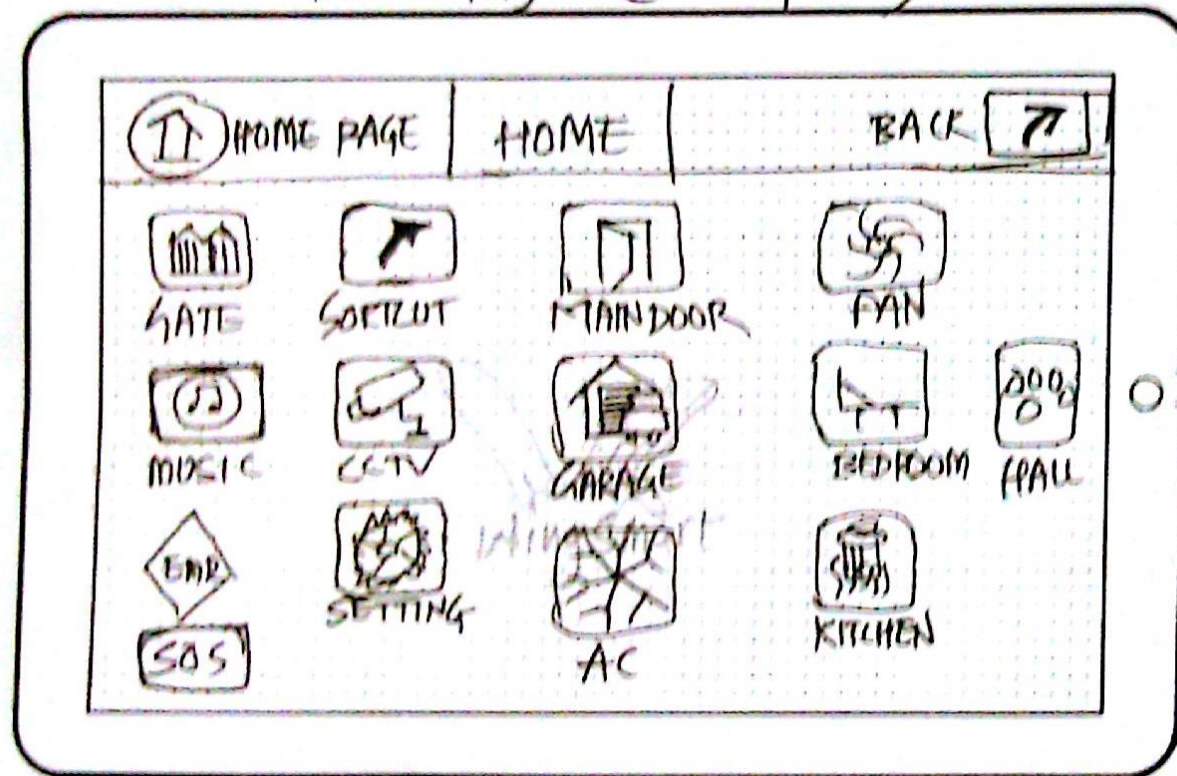


Home Page (concept 2)





# Home Page (Concept 3)







App Download page



Tab home page



App Icon on tab home page



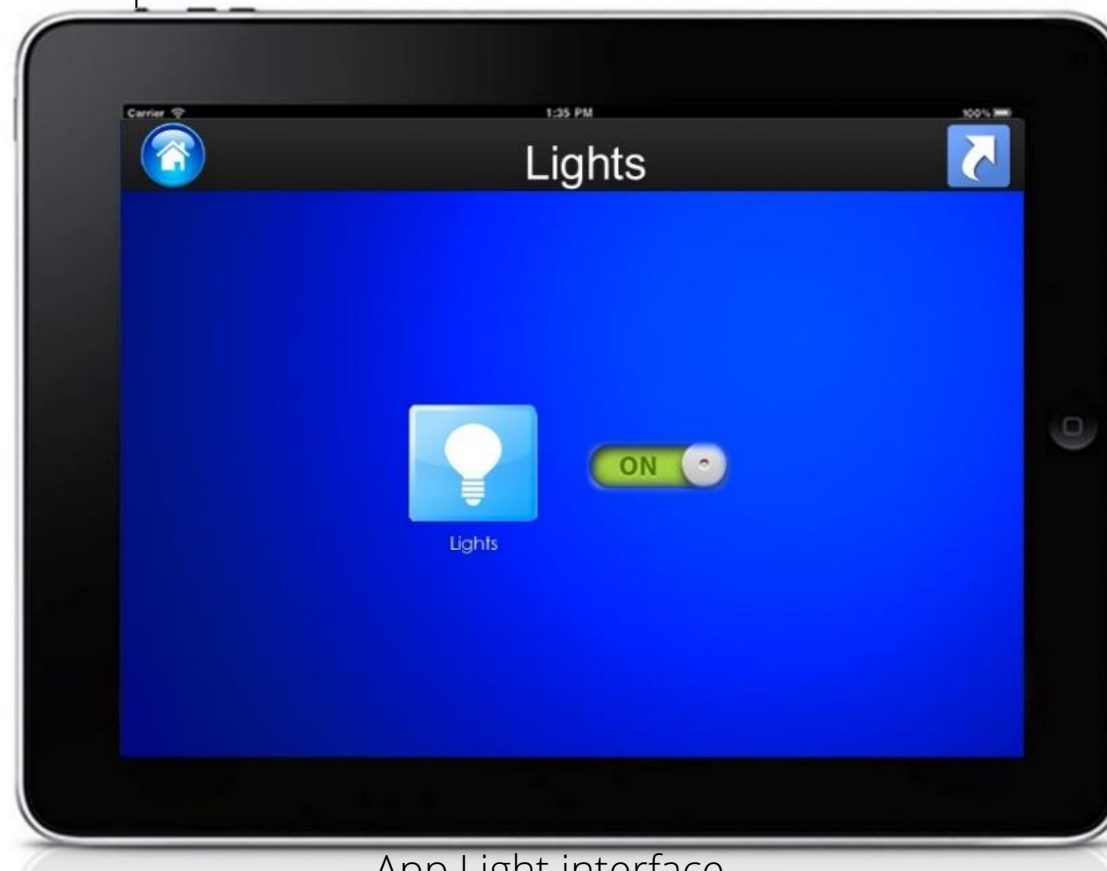
App Home page Concept- 1



App Home page concept 2



App hall interface



App Light interface



## Central monitoring system with tab

# WingSmart 2.1

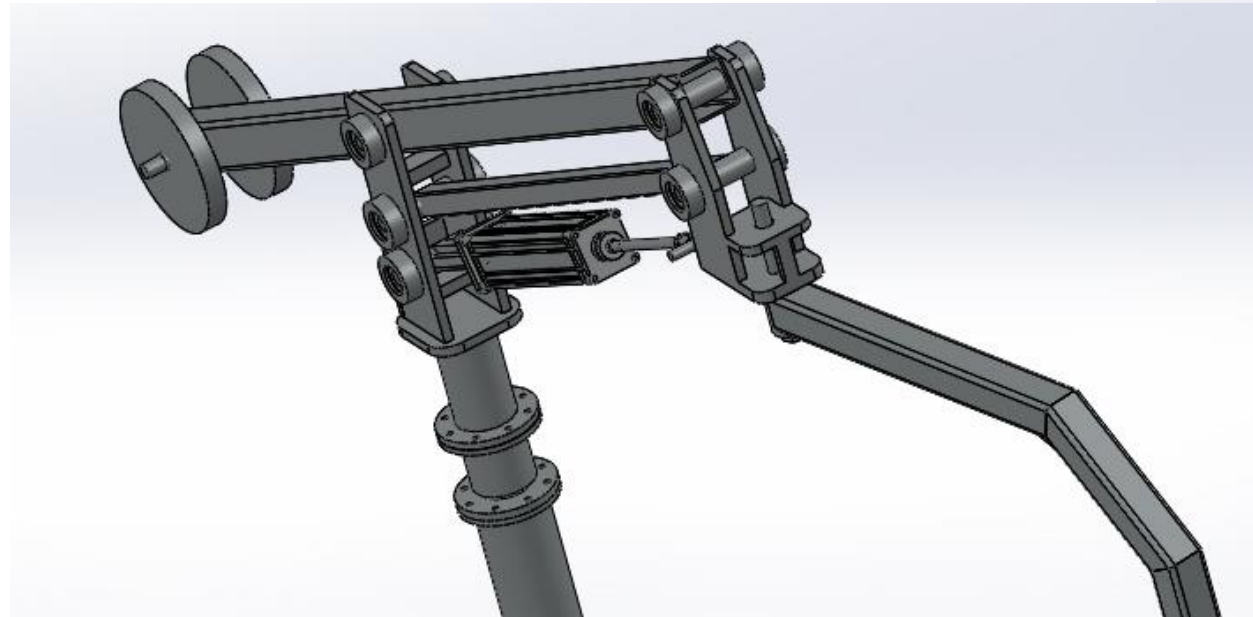


Monitor, Manage Your Property Anytime,  
From Anywhere



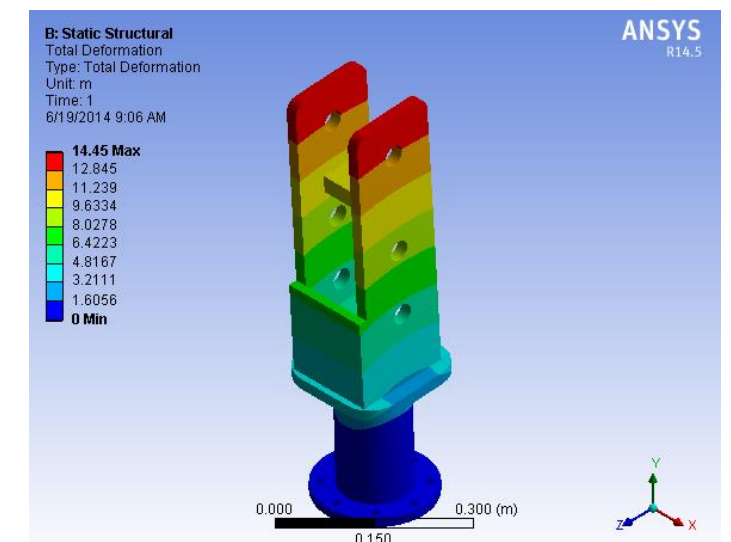
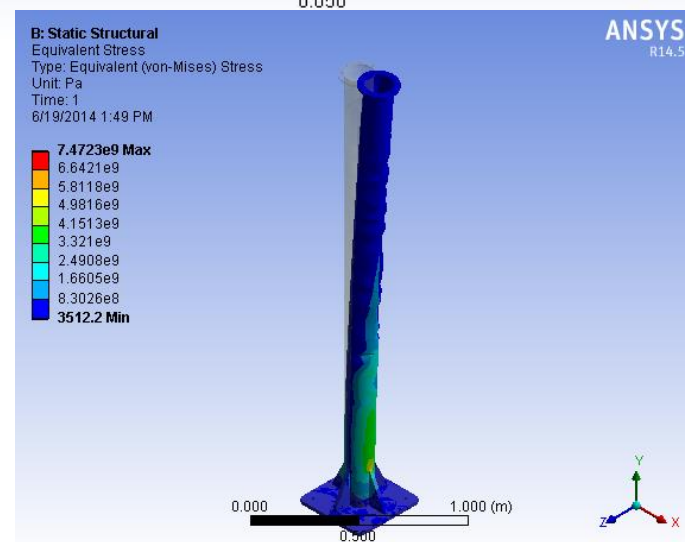
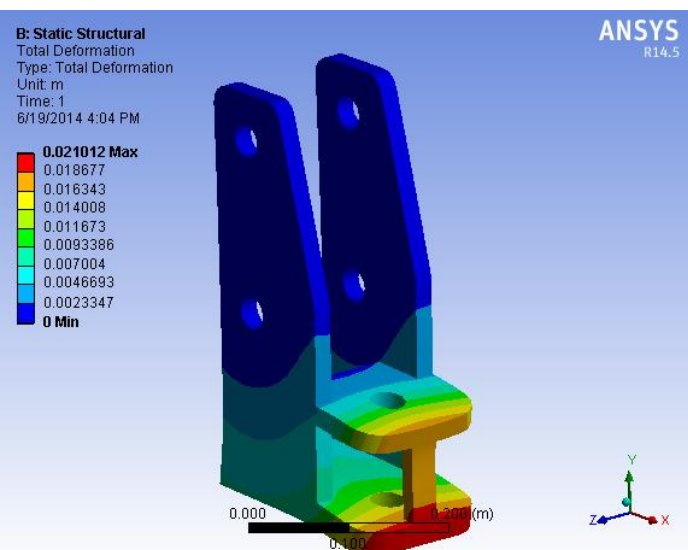
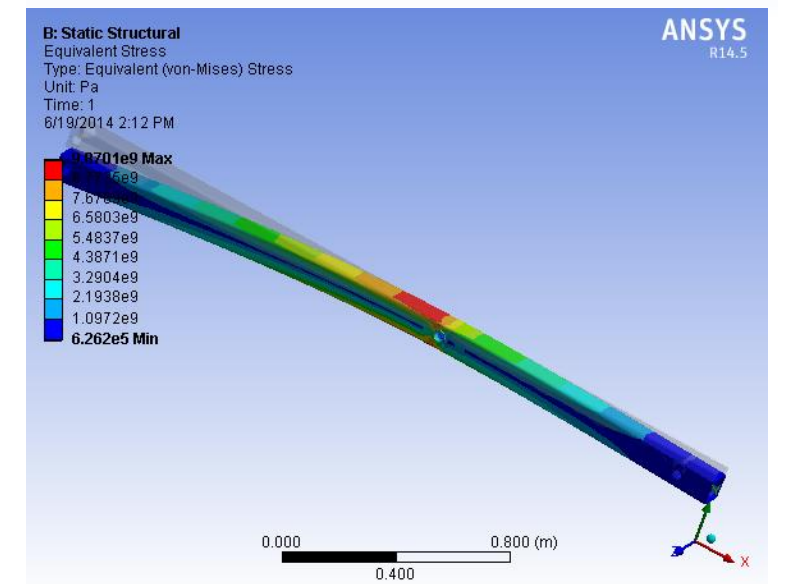
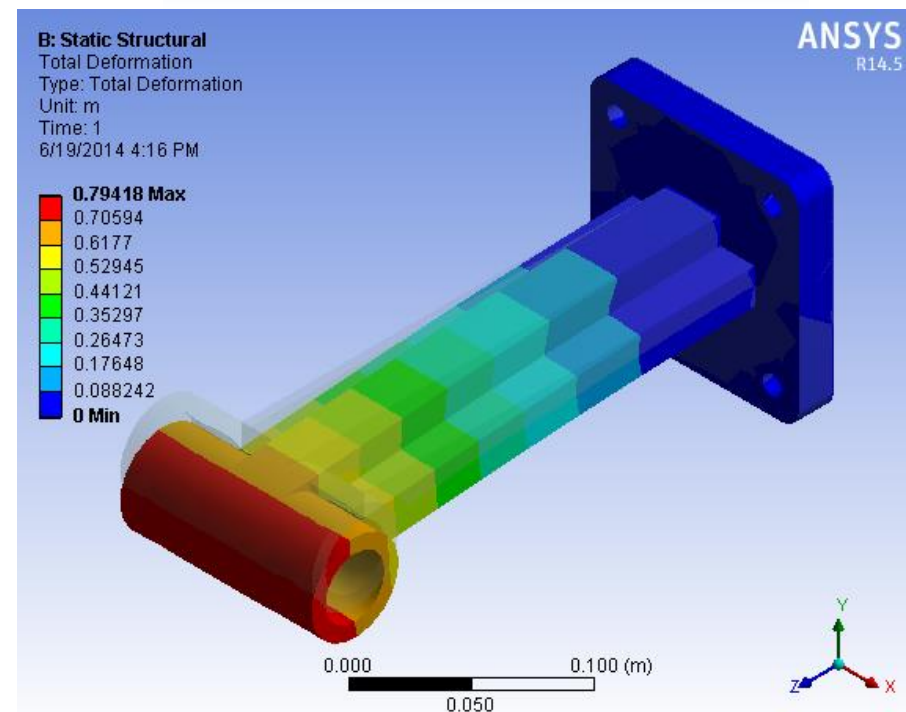
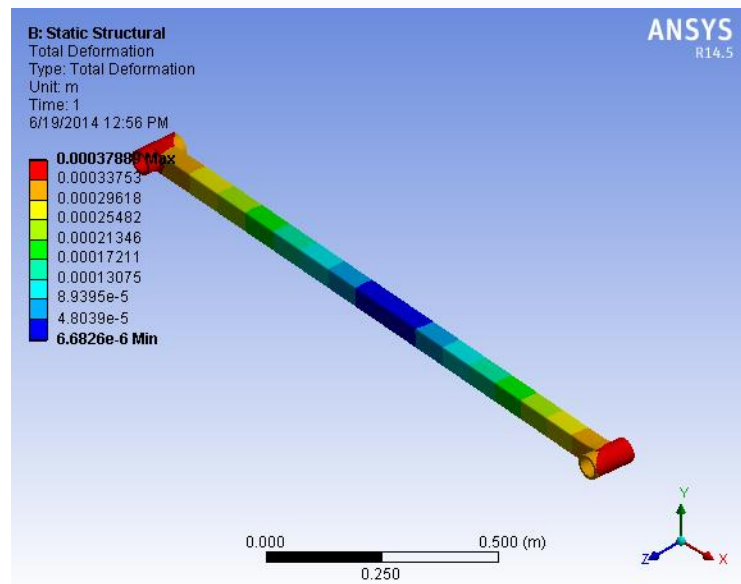
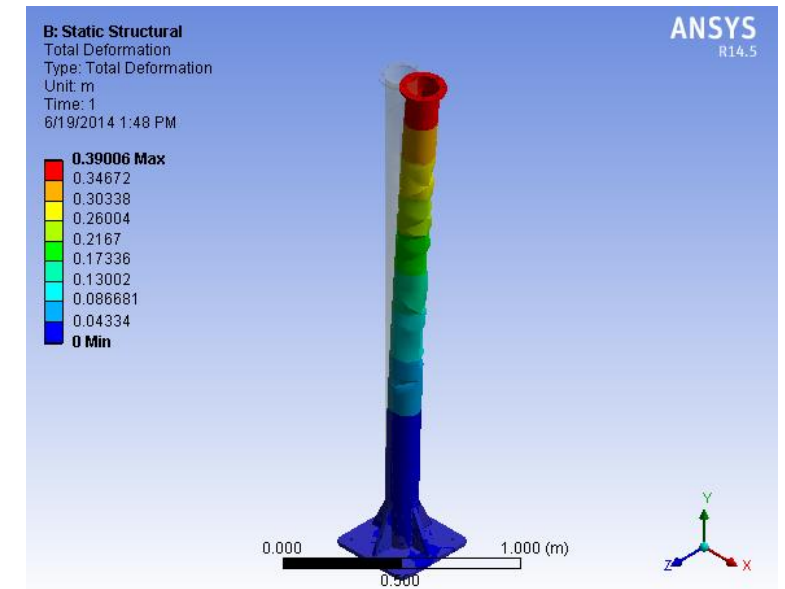
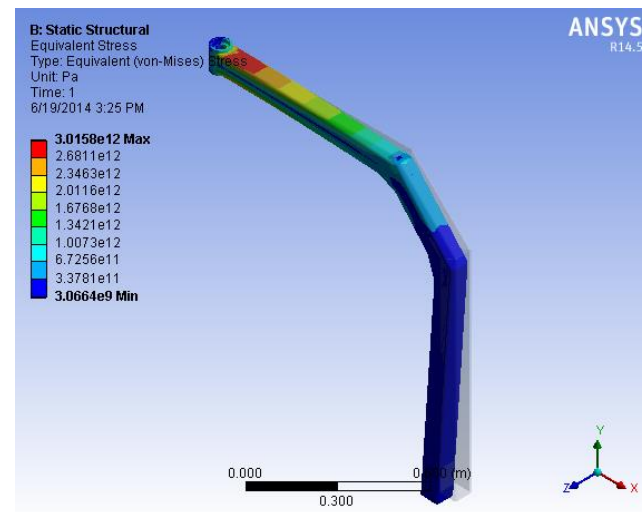
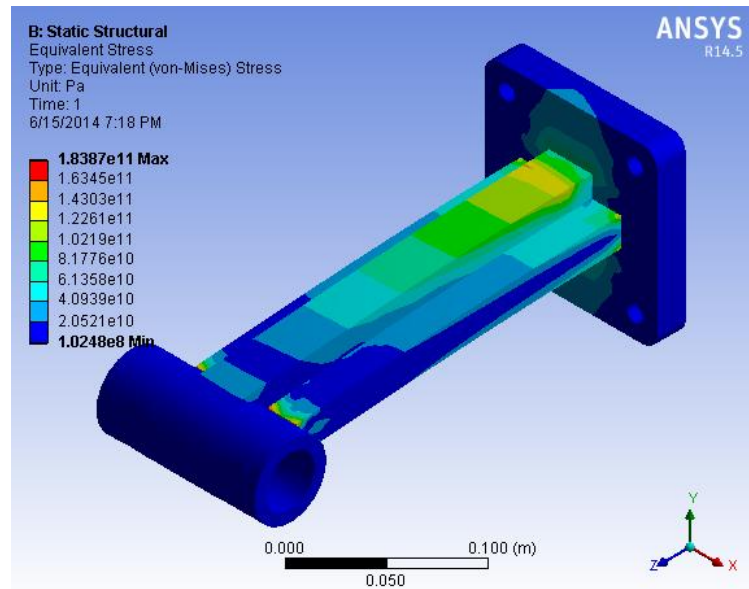
# Project 2: Robotic Arm

(Software Used : Solidworks)



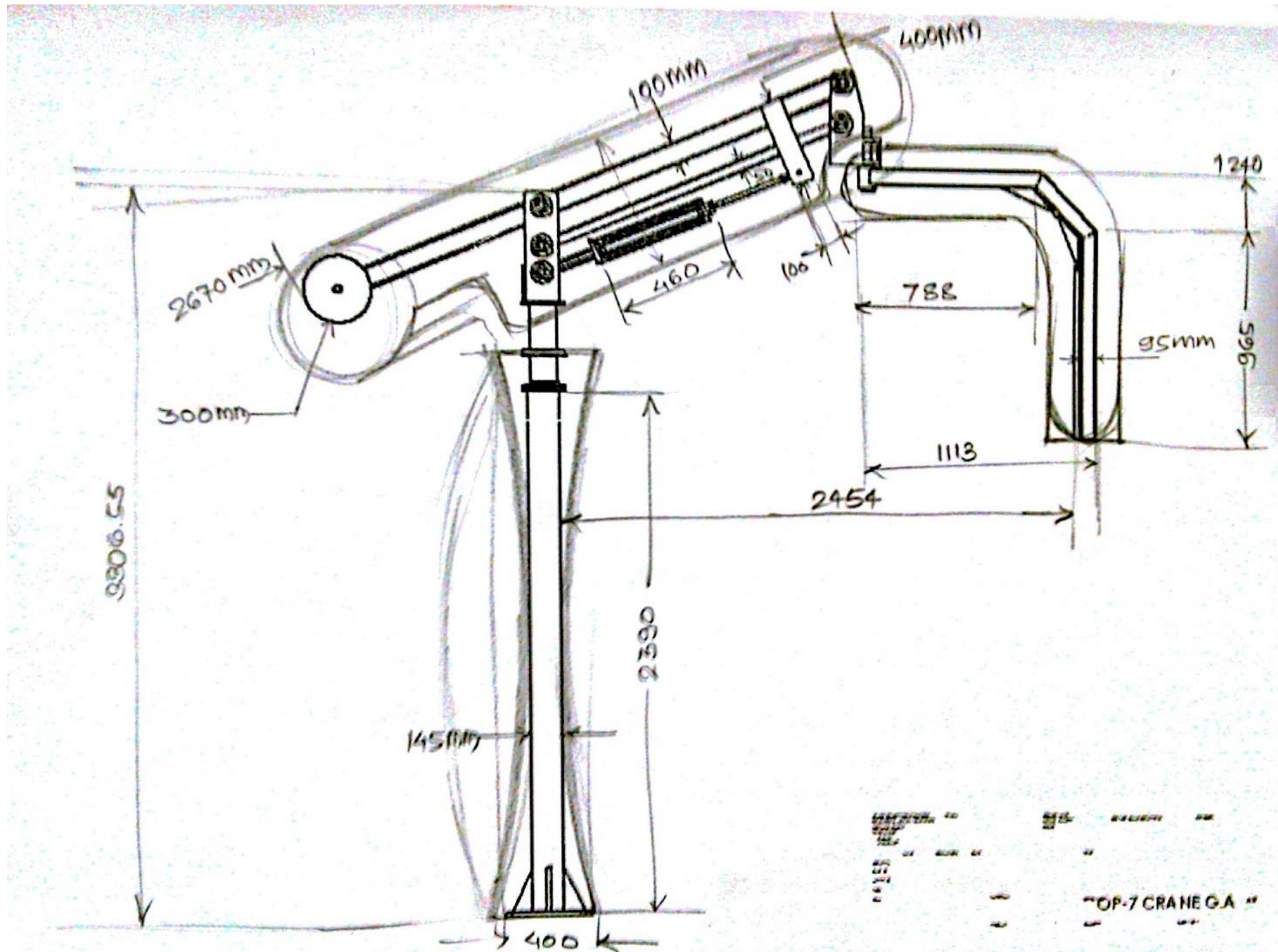


# Static Structural Analysis



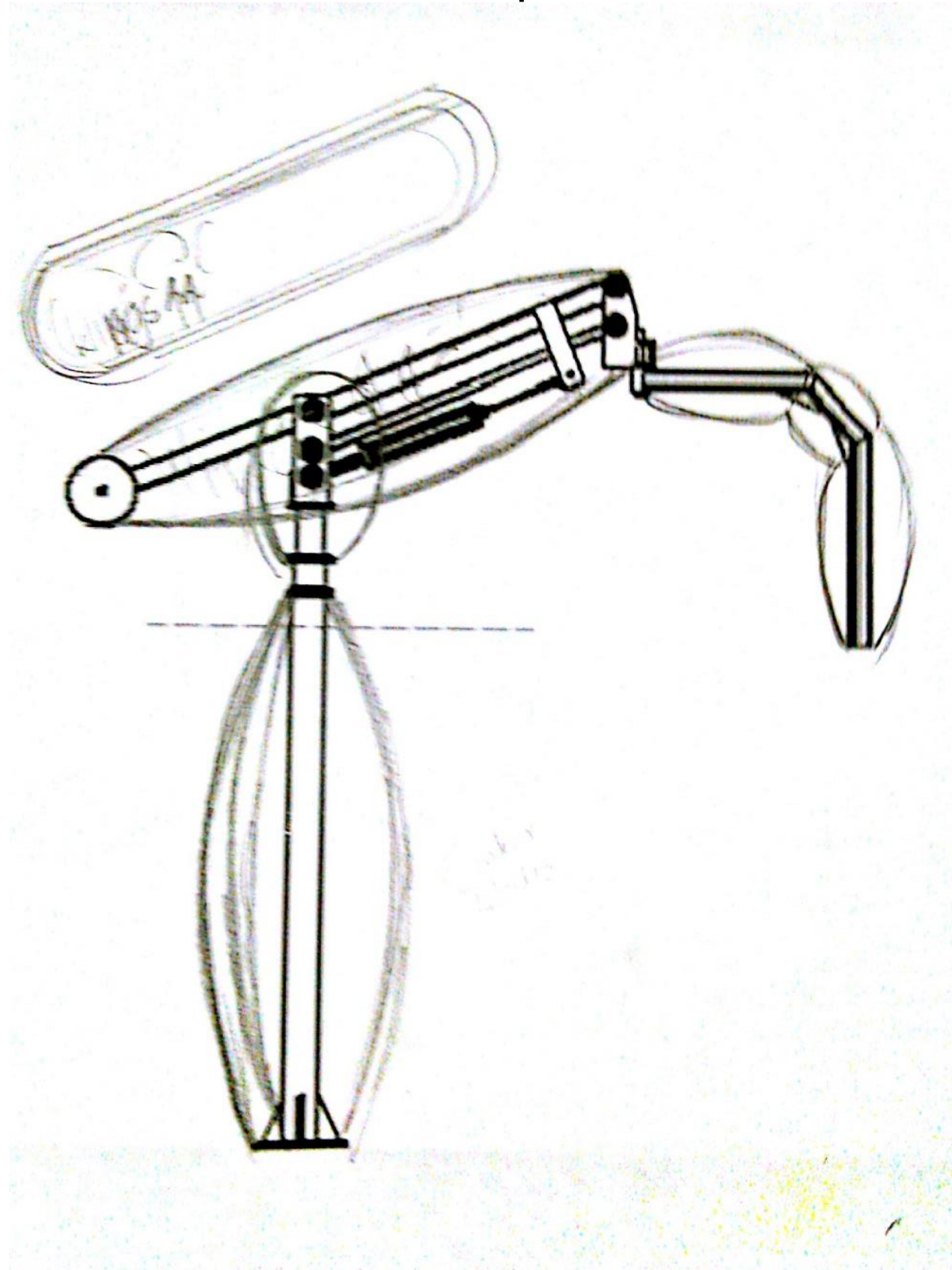
# Robotic Arm Body Design

## Concept 1

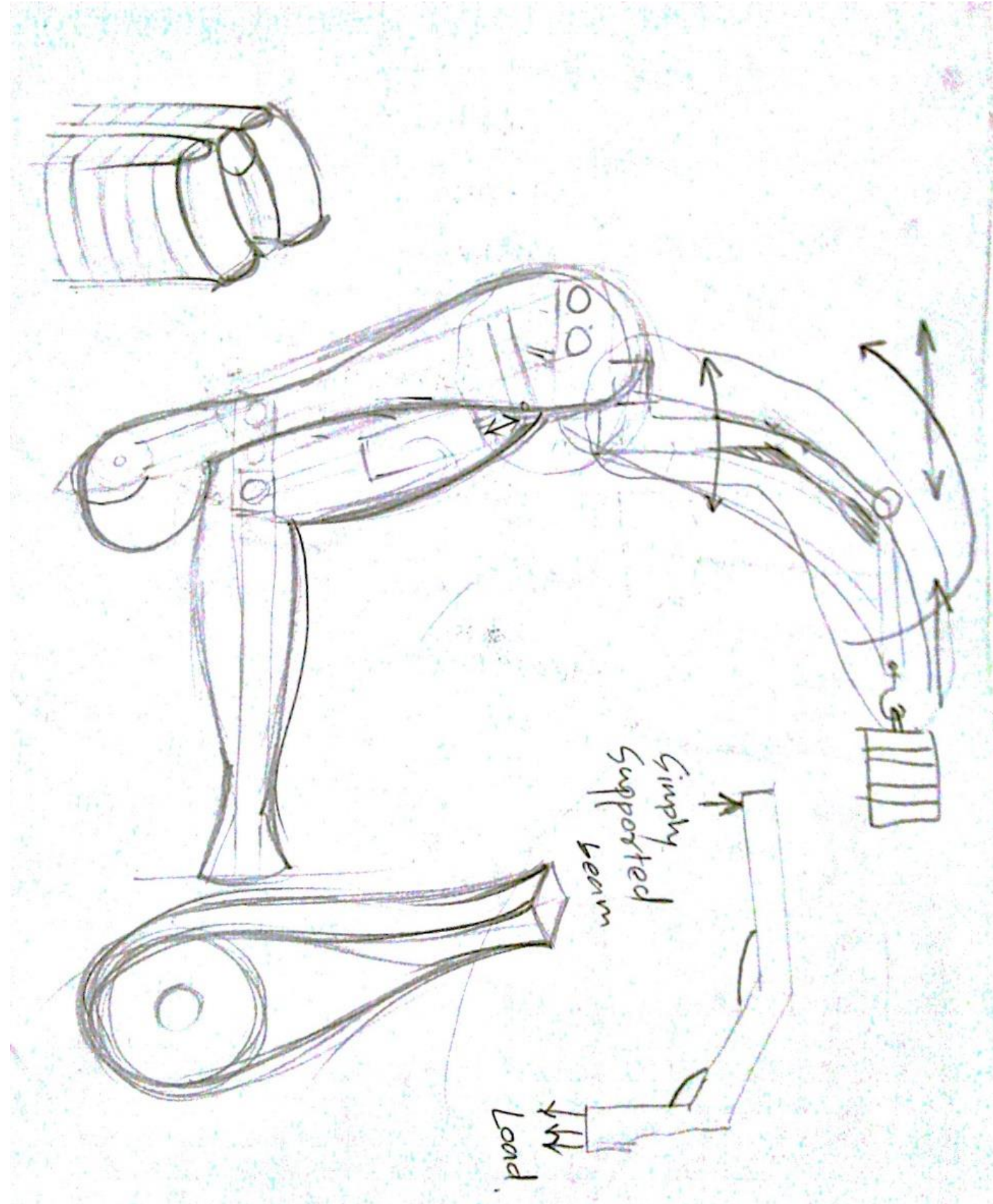




## Concept 2

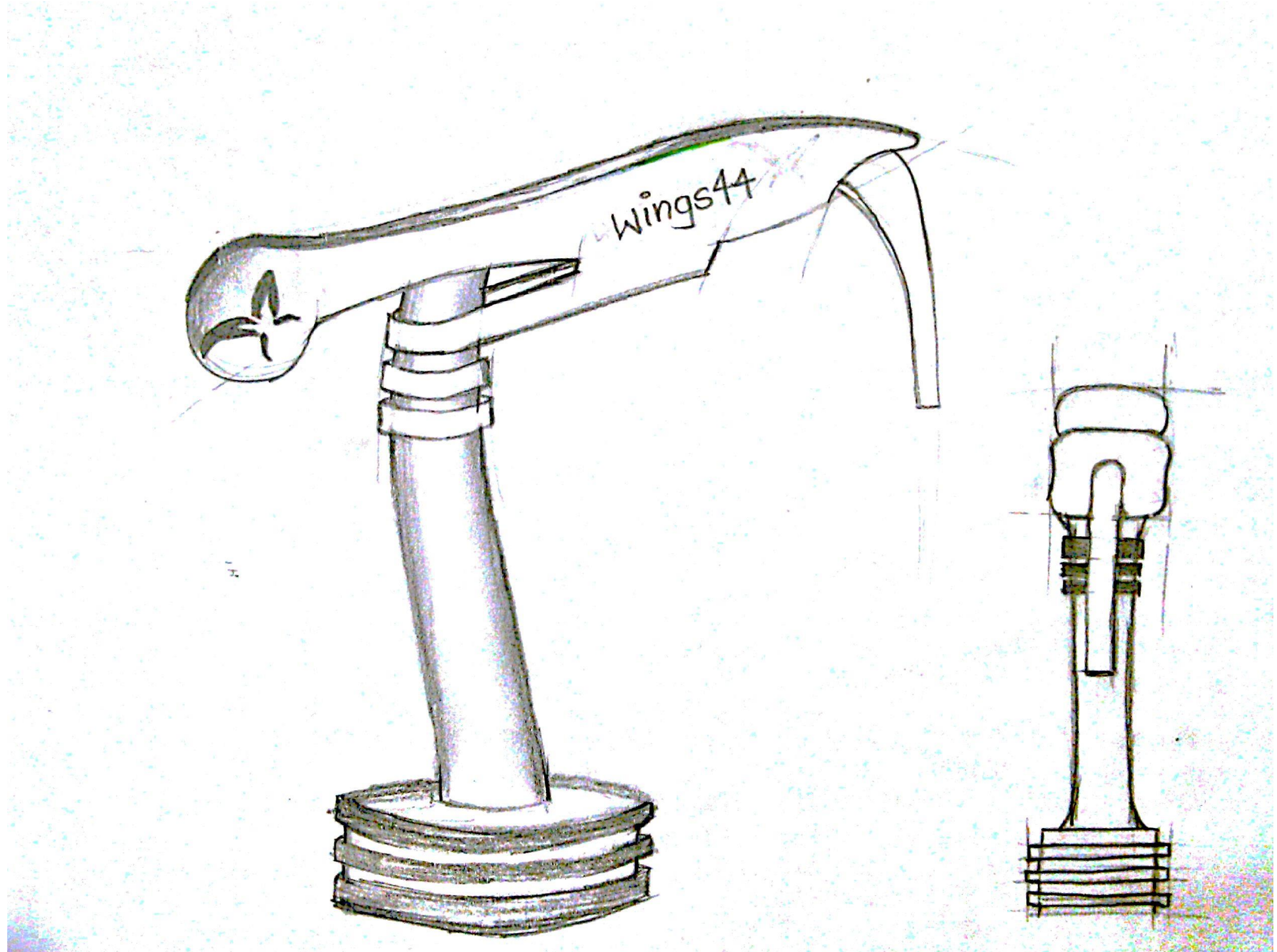


# Concept 3

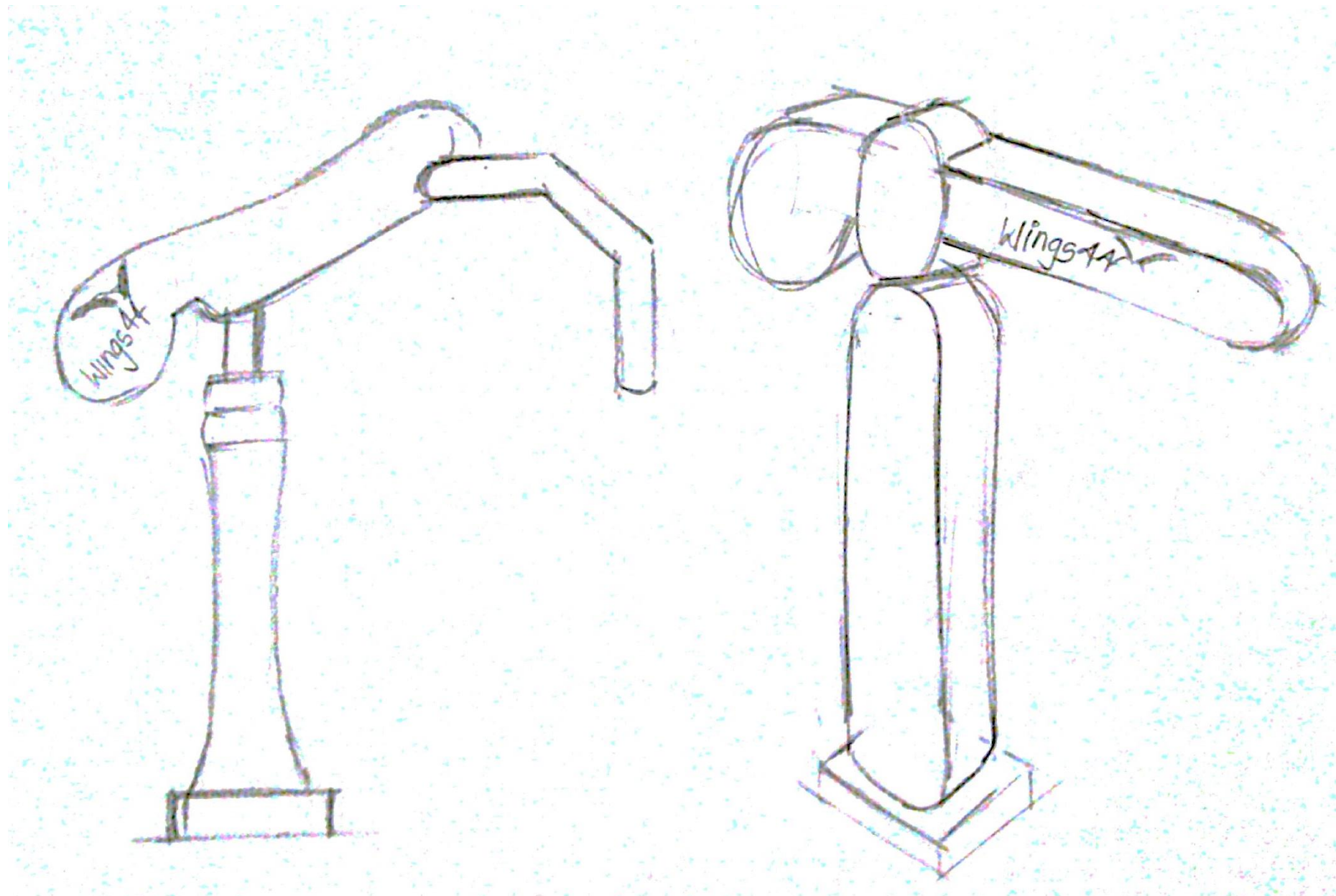




## Concept 4

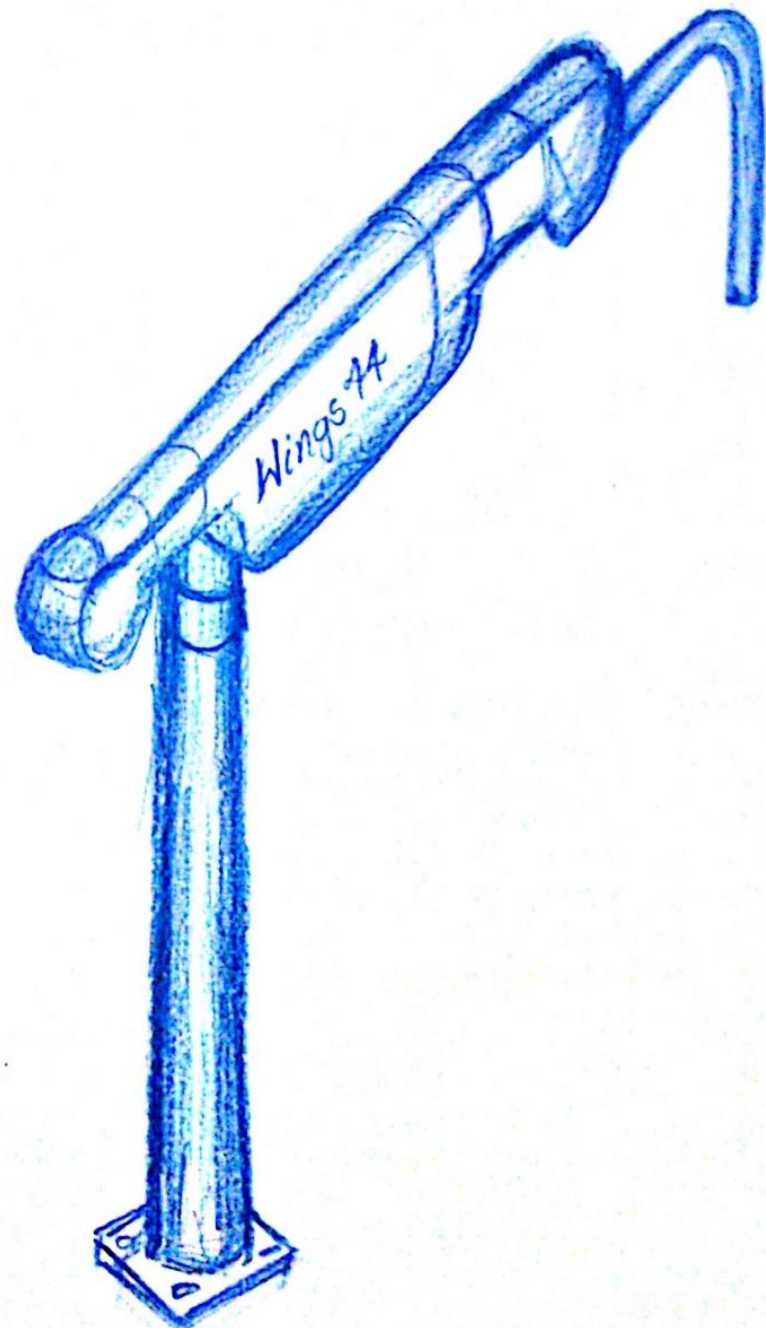
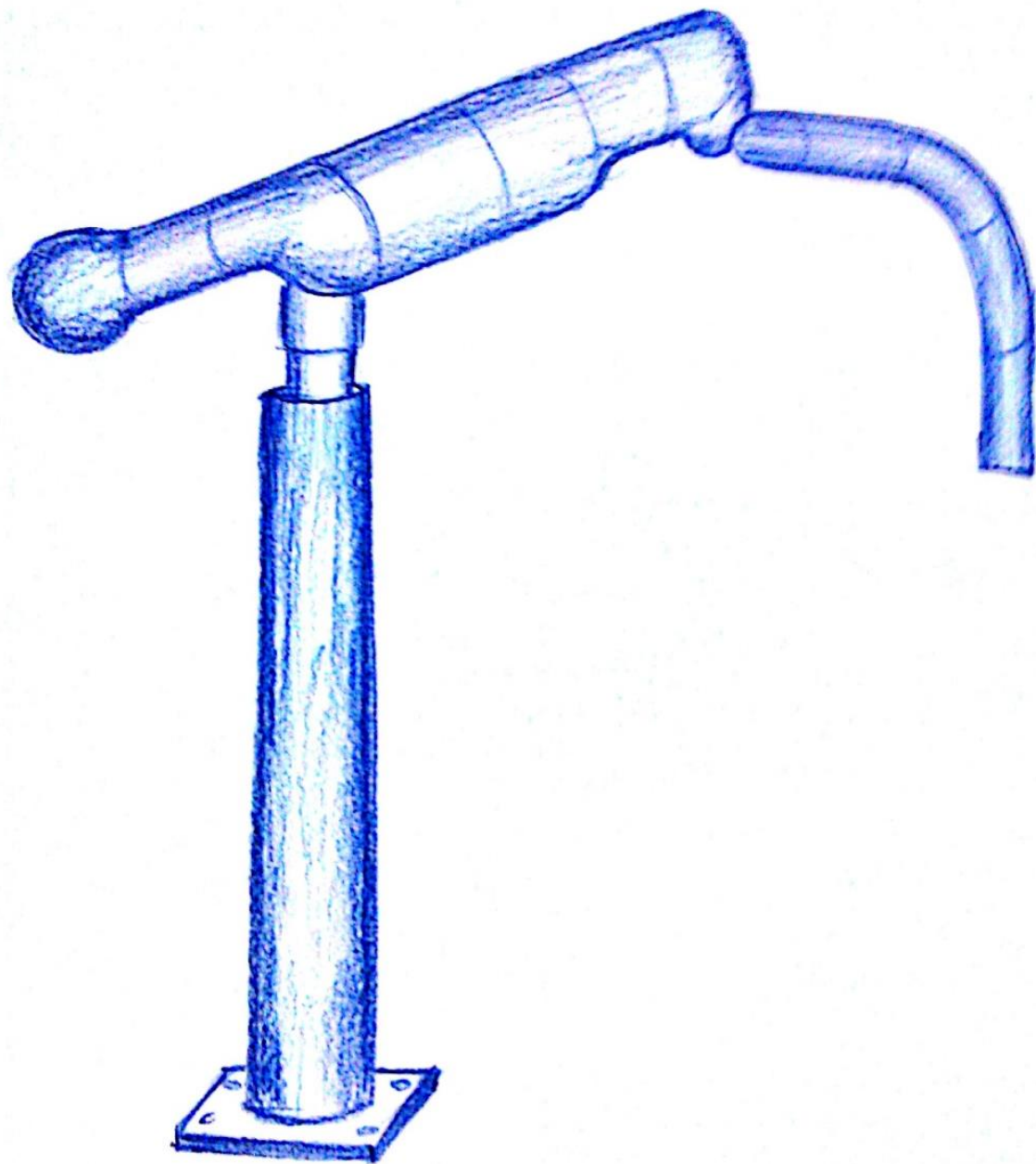


## Concept 5

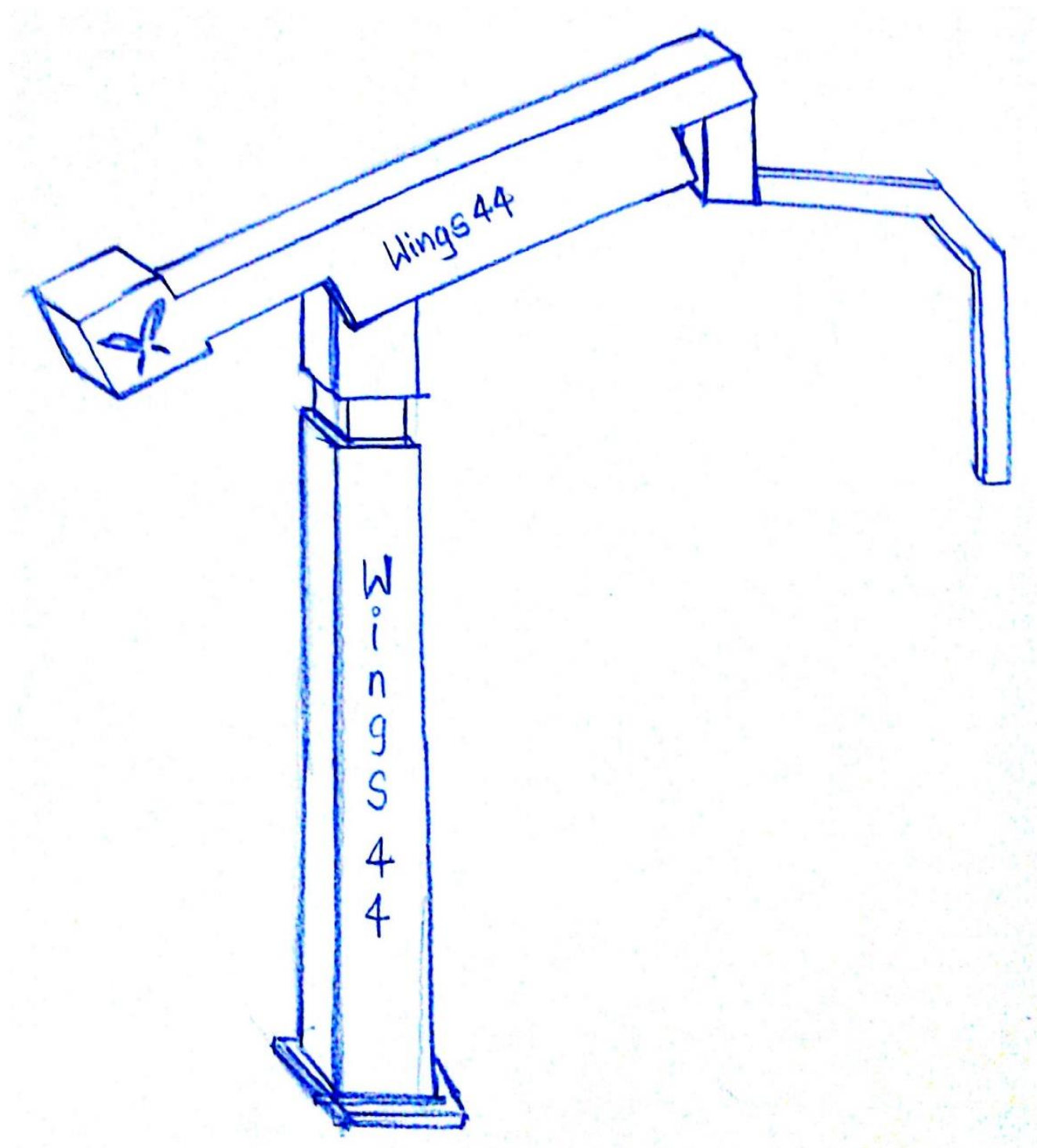




## Concept 6

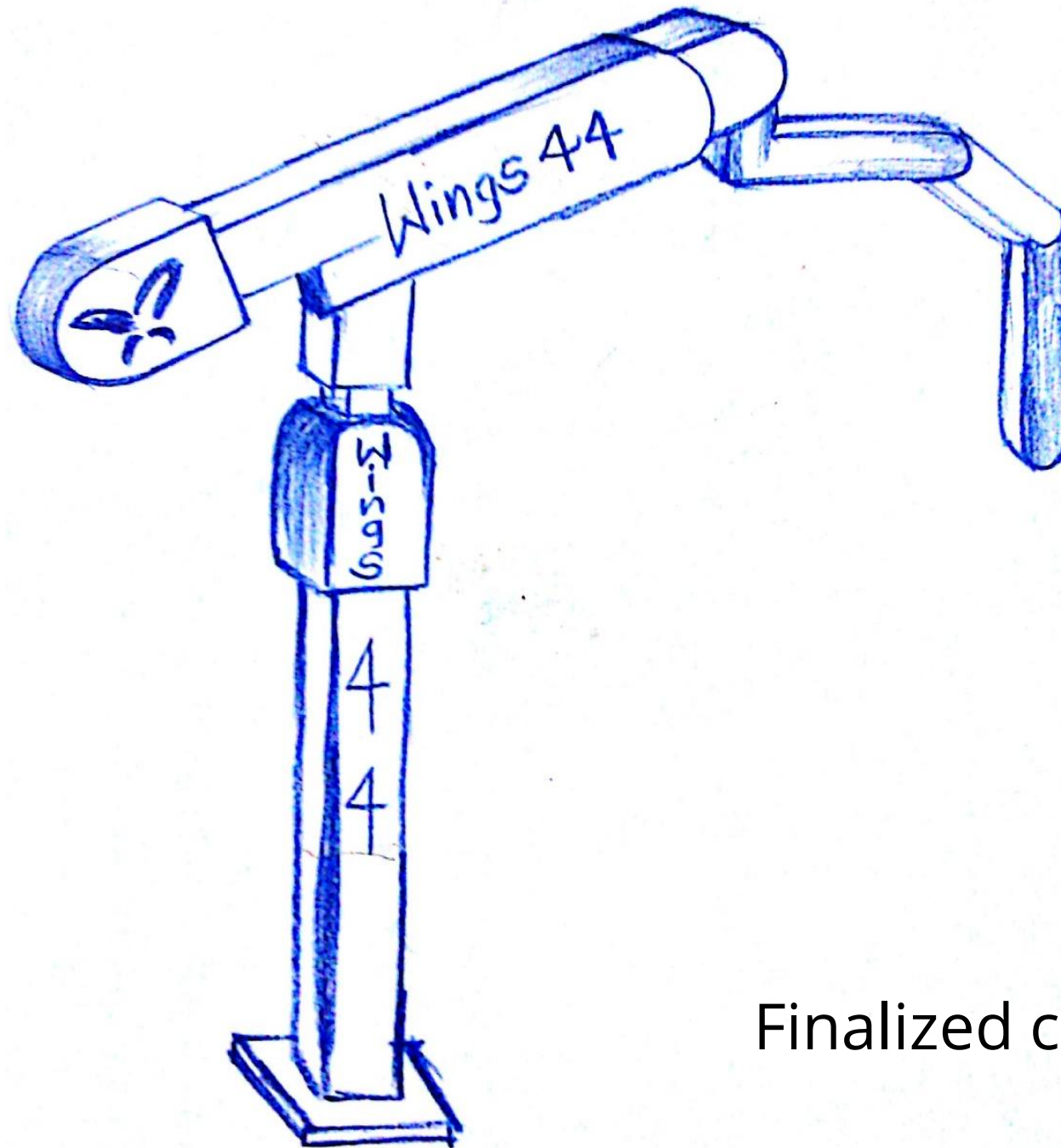


## Concept 7





## Concept 8



Finalized concept

# What I learnt?

Latest technology

How industry works

Working in team

manufacturing process

Interacting people

New Software

latest technological advancements

Roll of Product Designer

Importance of Sketching



Thank you