

BARELANG MRT



# KONTES ROBOT BAWAH AIR INDONESIA (KRBAI)



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As mechanical division



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As mechanical division



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As electrical division



**ALIF MAULANA**  
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As electrical division



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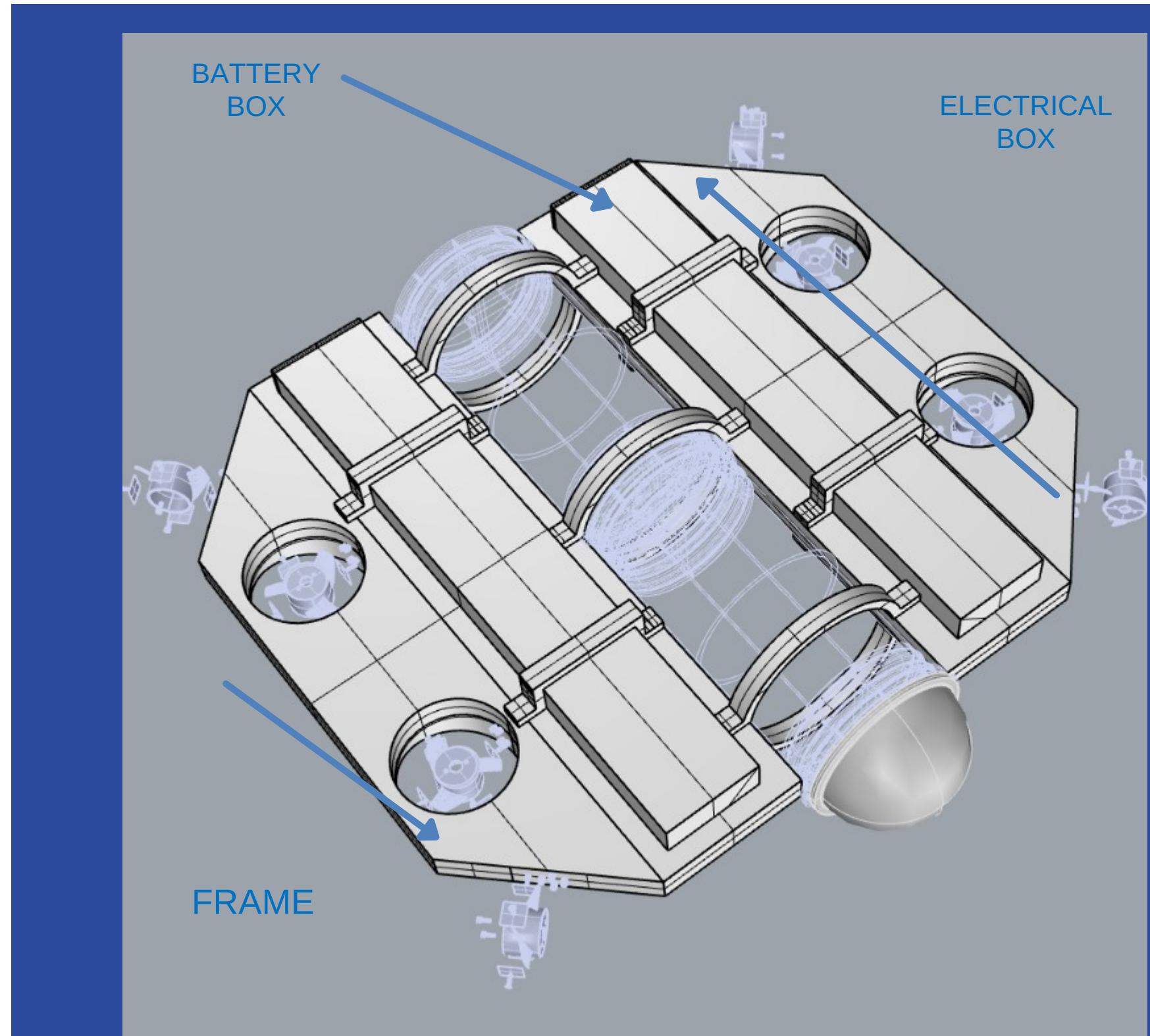
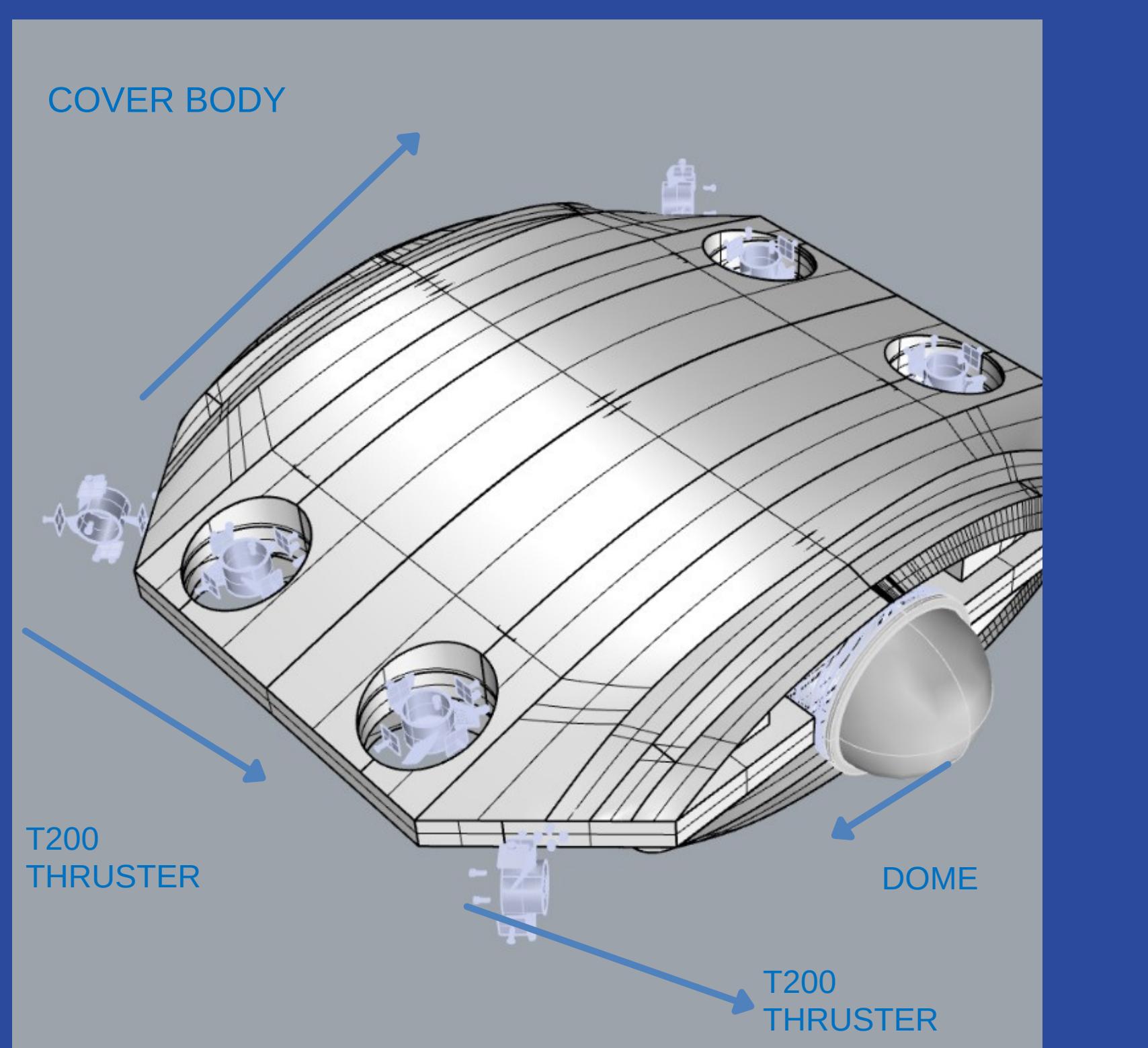
As electrical division

# WHAT IS KRBAI?

KRBAI stands for Indonesian underwater robot contest, which has held its first competition in 2023.

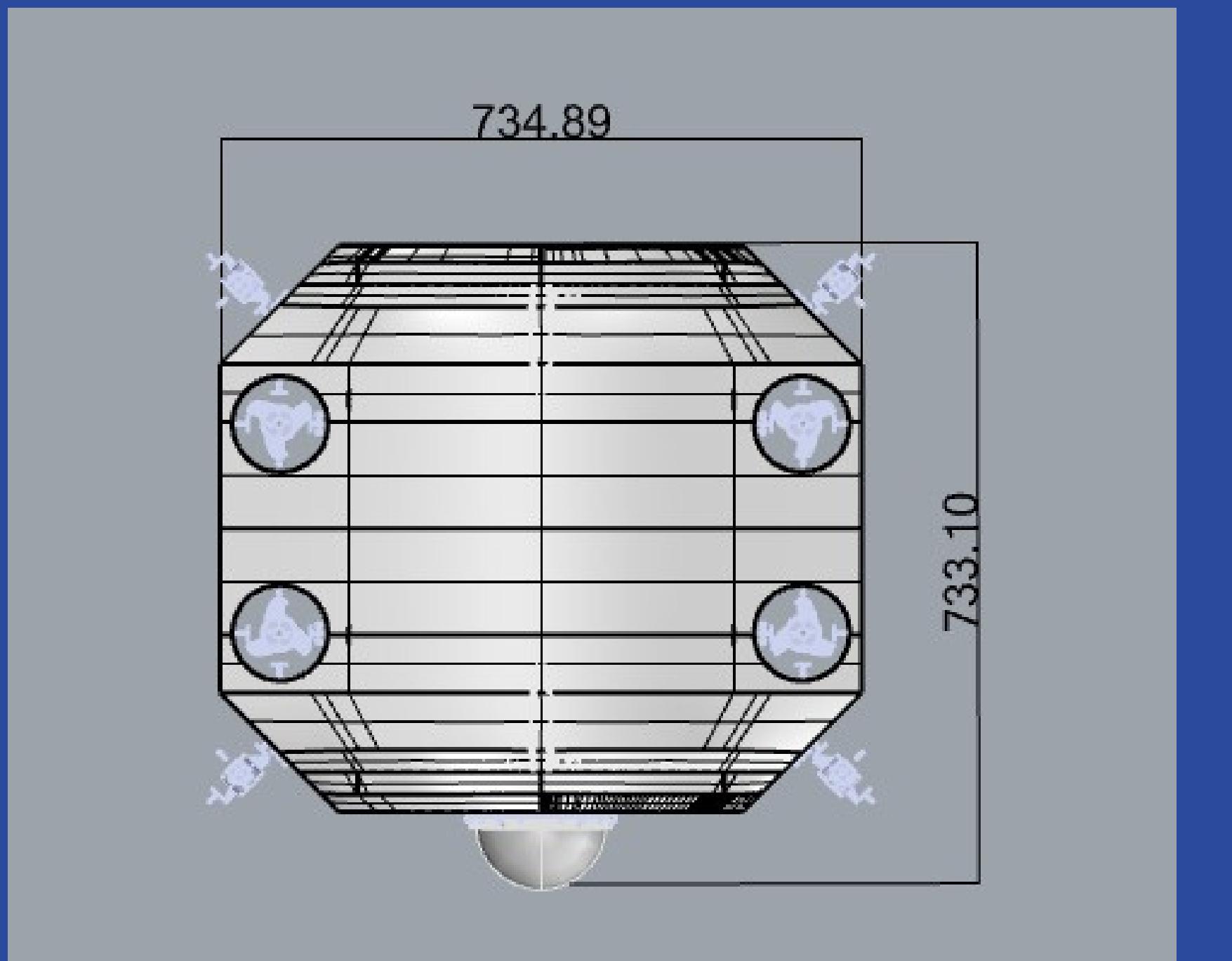


# ROBOT DESIGN

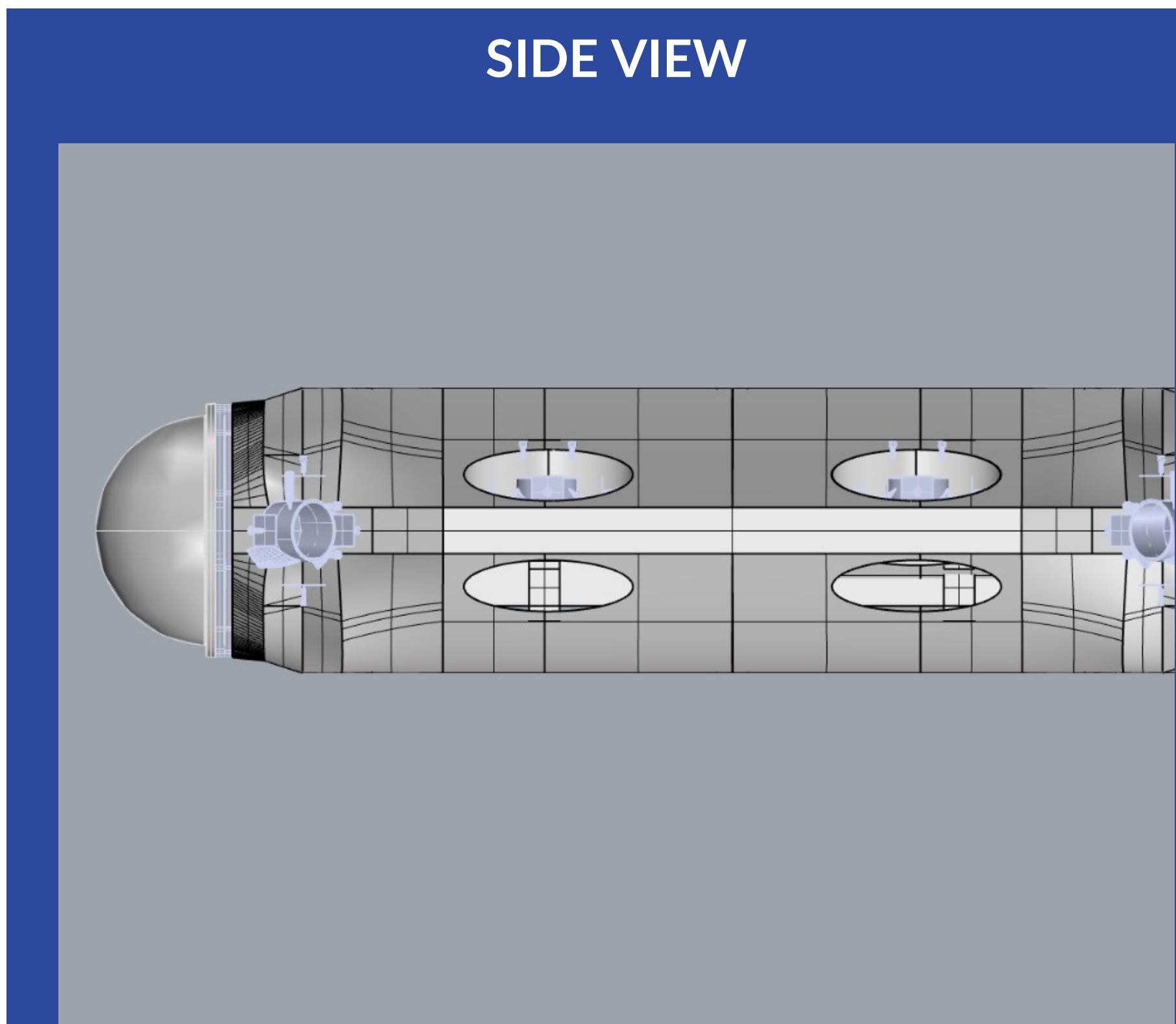


# DIMENSION

TOP VIEW



SIDE VIEW



# PROGRESS

## 1. Design and Planning

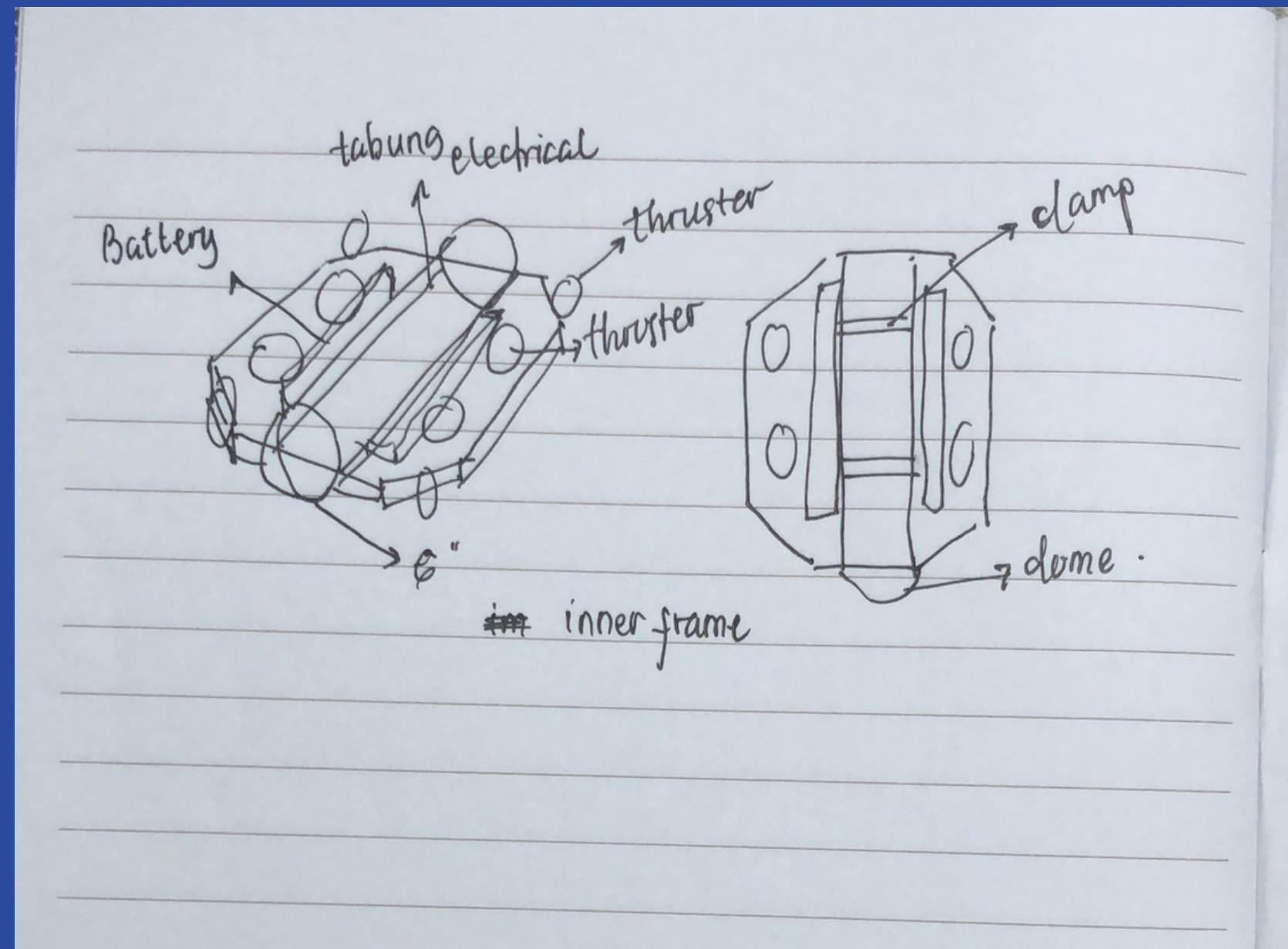


Fig. : Initial Sketch

# PROGRESS

## 1. Design and Planning

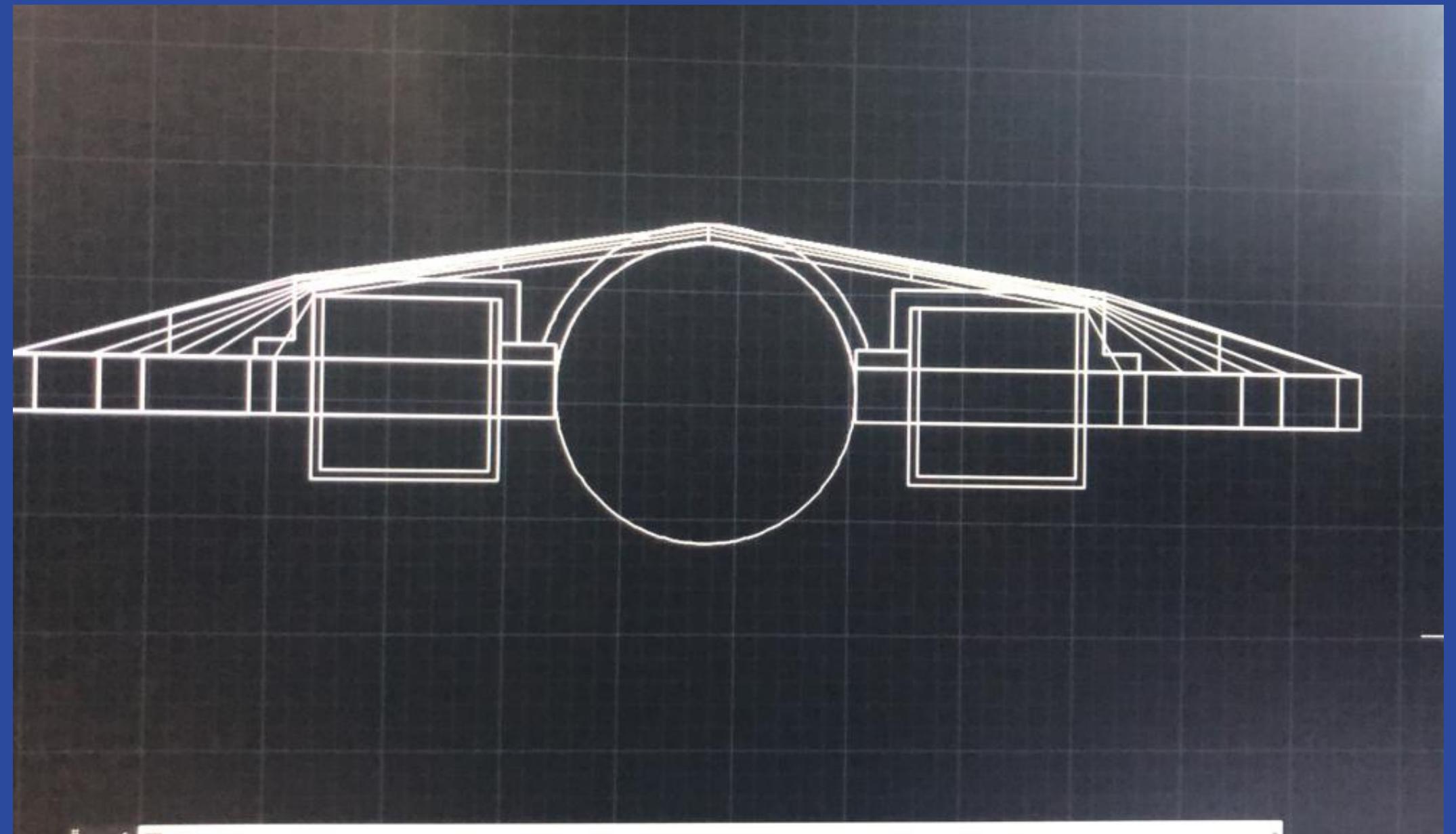
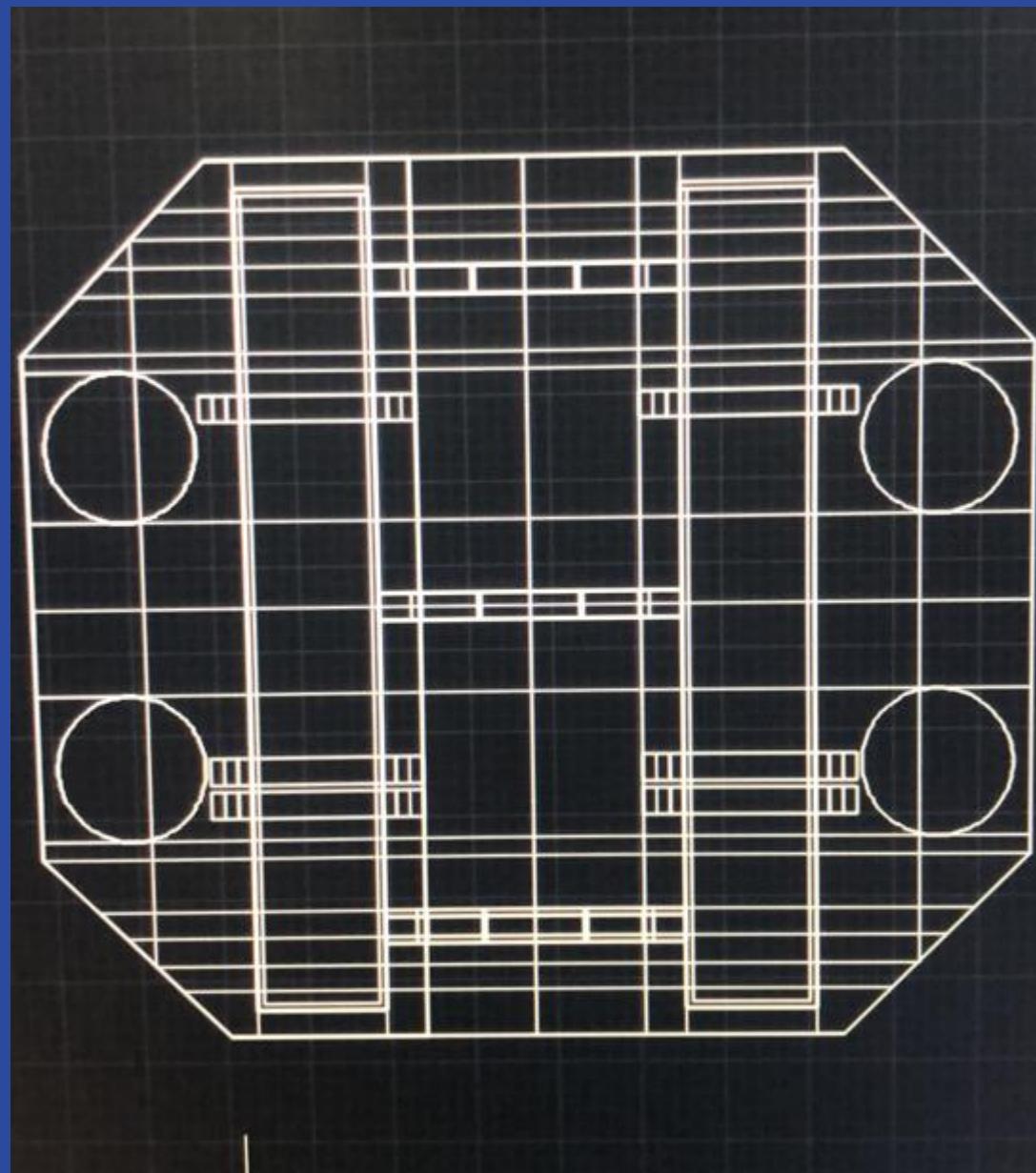


Fig. : Design Process

# PROGRESS

## 1. Design and Planning

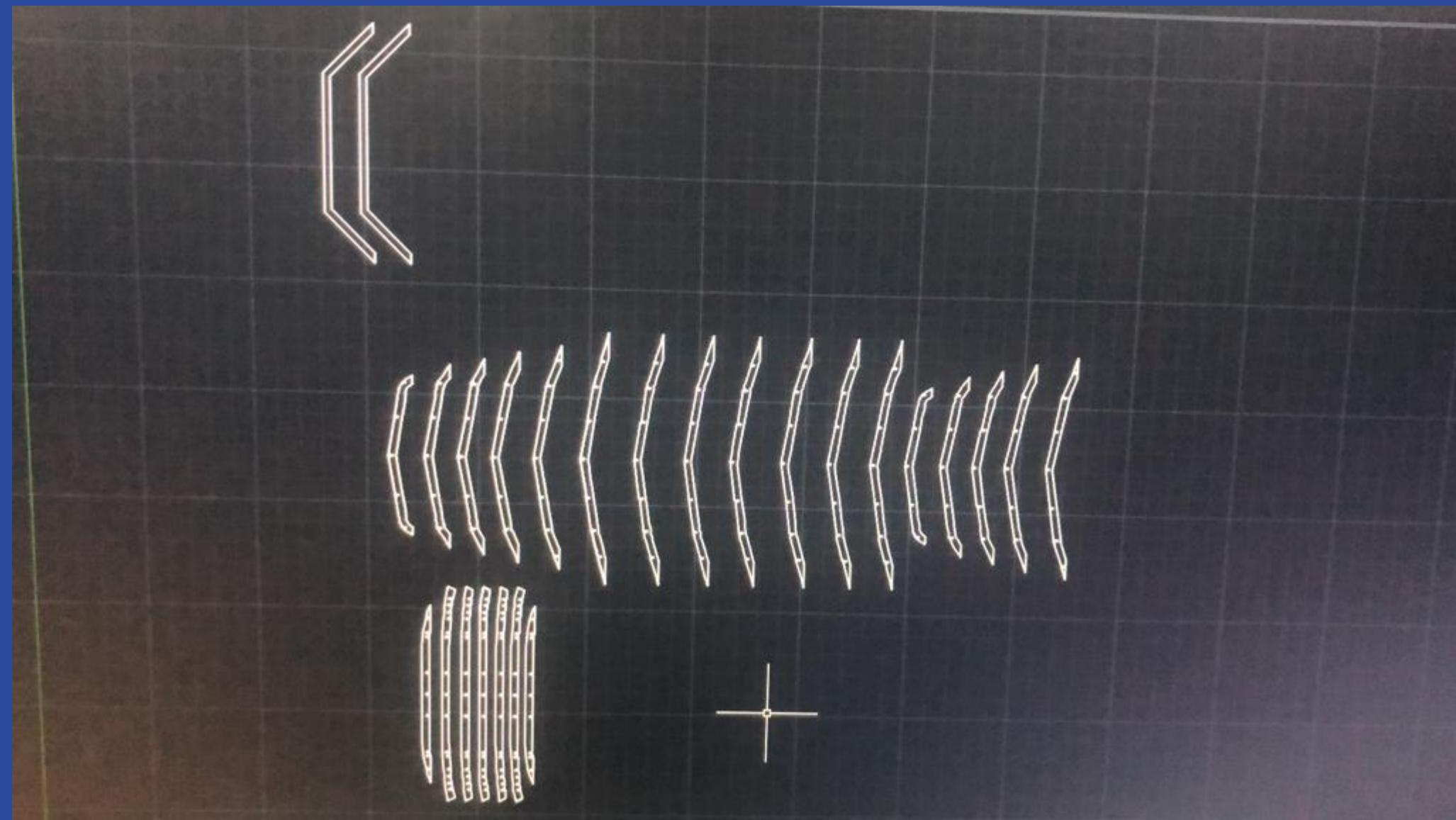


Fig. : Cutting Plan

# PROGRESS

## 1. Fabrication

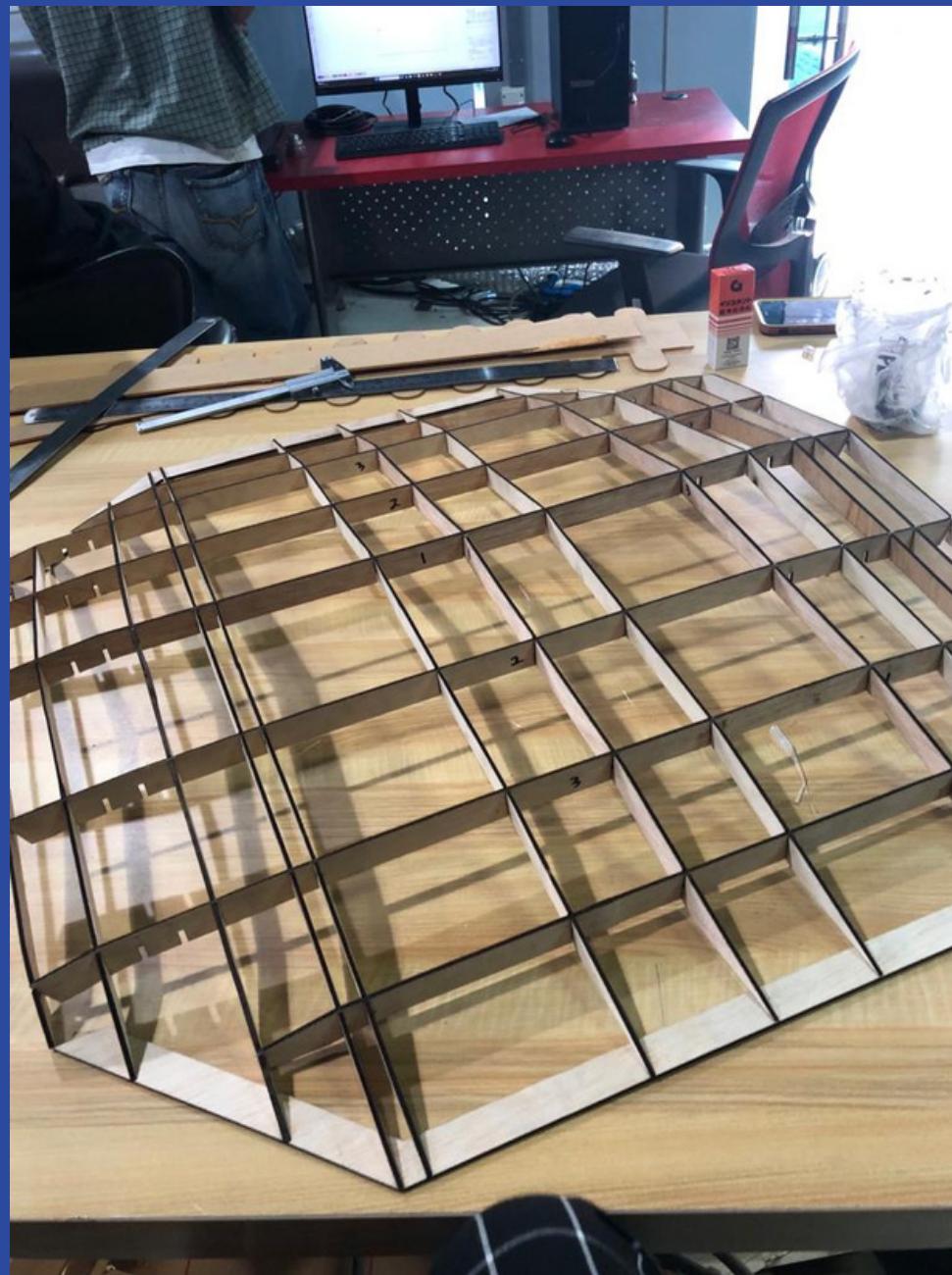


Fig. : Lines Plan Assembly



Fig. : Covering Process

# PROJECT PLAN

## 1. Design and Planning

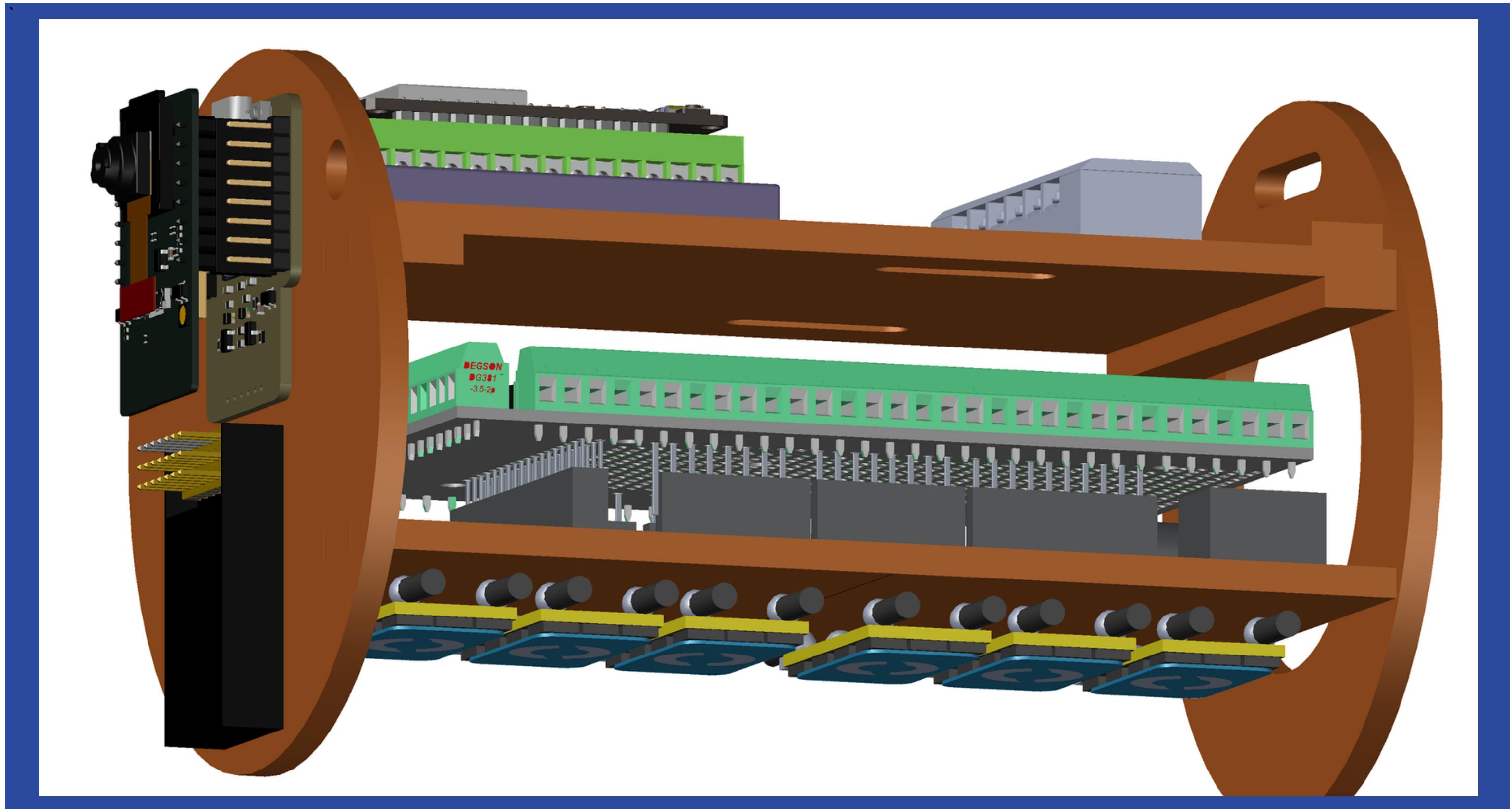
- Define project reference
- Make an intial sketch
- Draw 3D Modelling by using AutoCAD
- Make 2D lines plan
- Make a cutting plan

# PROJECT PLAN

## 1. Fabrication

- Cut the material by using laser cutting
- Assembly the lines plan
- Cover the linesplan with balsa
- Smooth the surface using sand paper
- Putty the surface
- Paint the surface
- Resin the surface

# ELECTRICAL

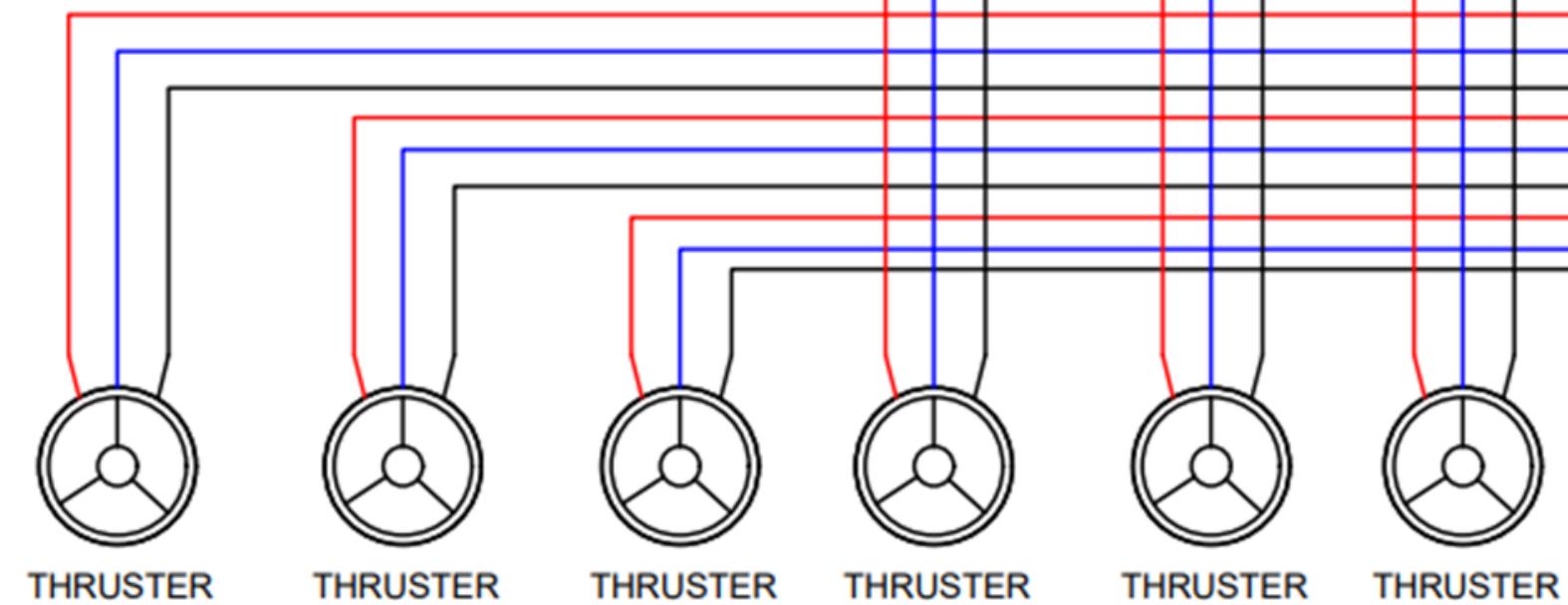


## Wiring Diagram Electrical

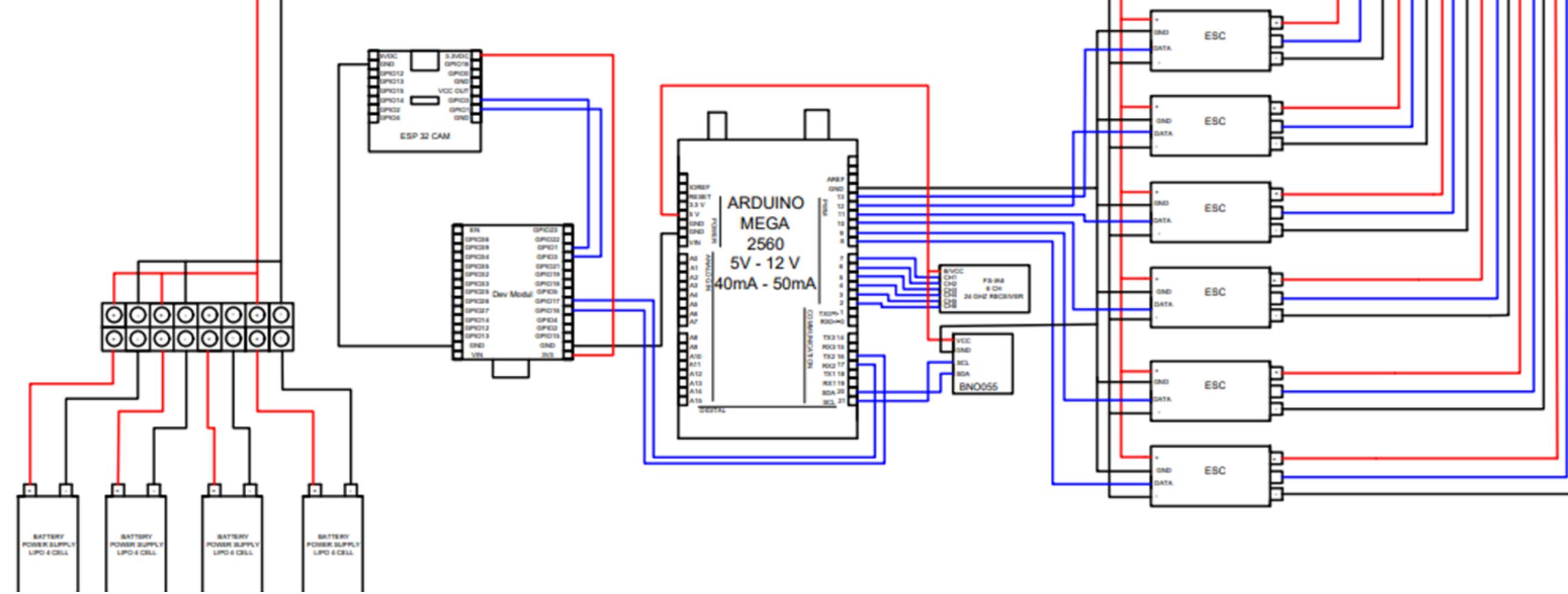
A



B



C



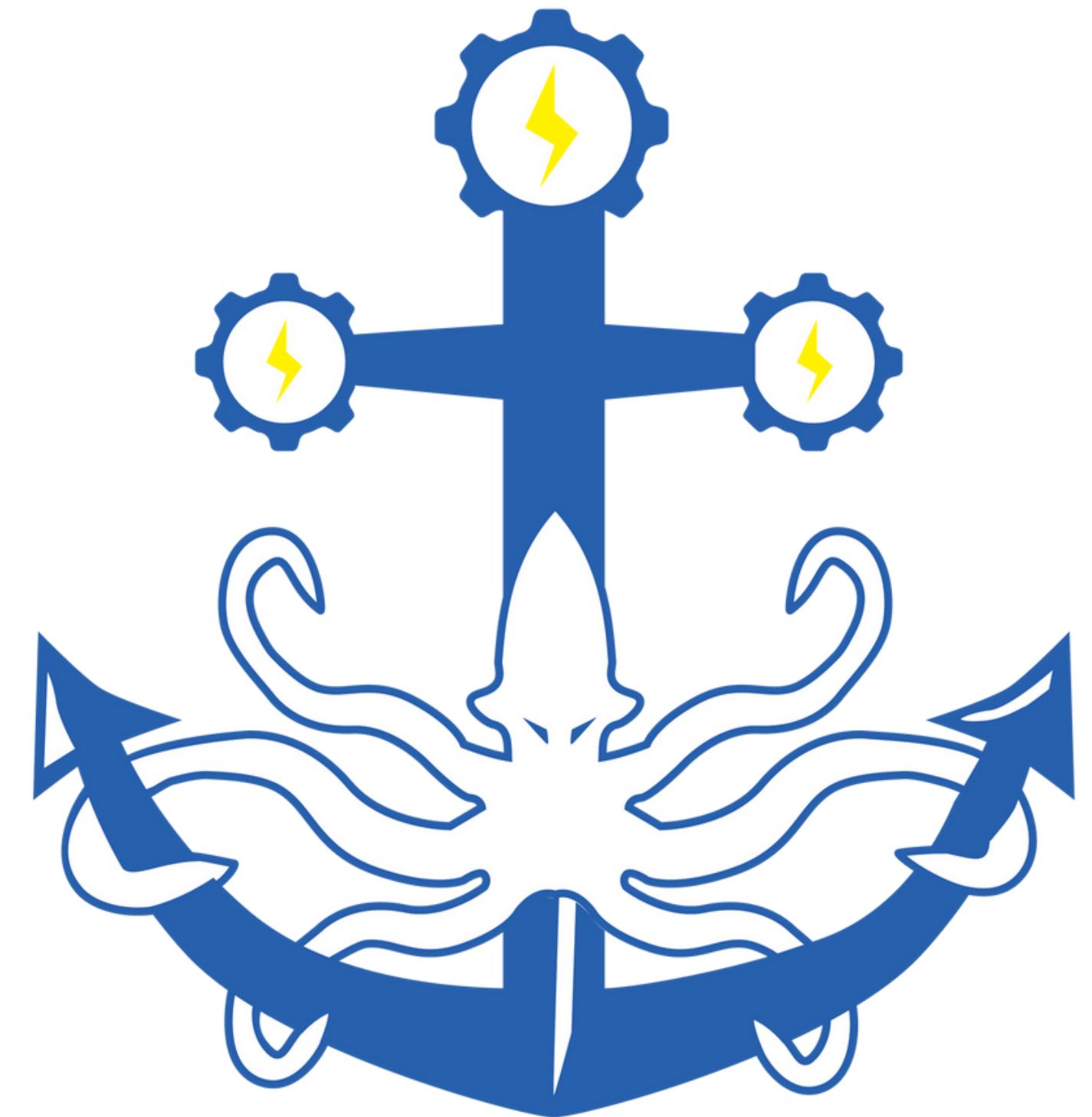
D

A

B

C

D



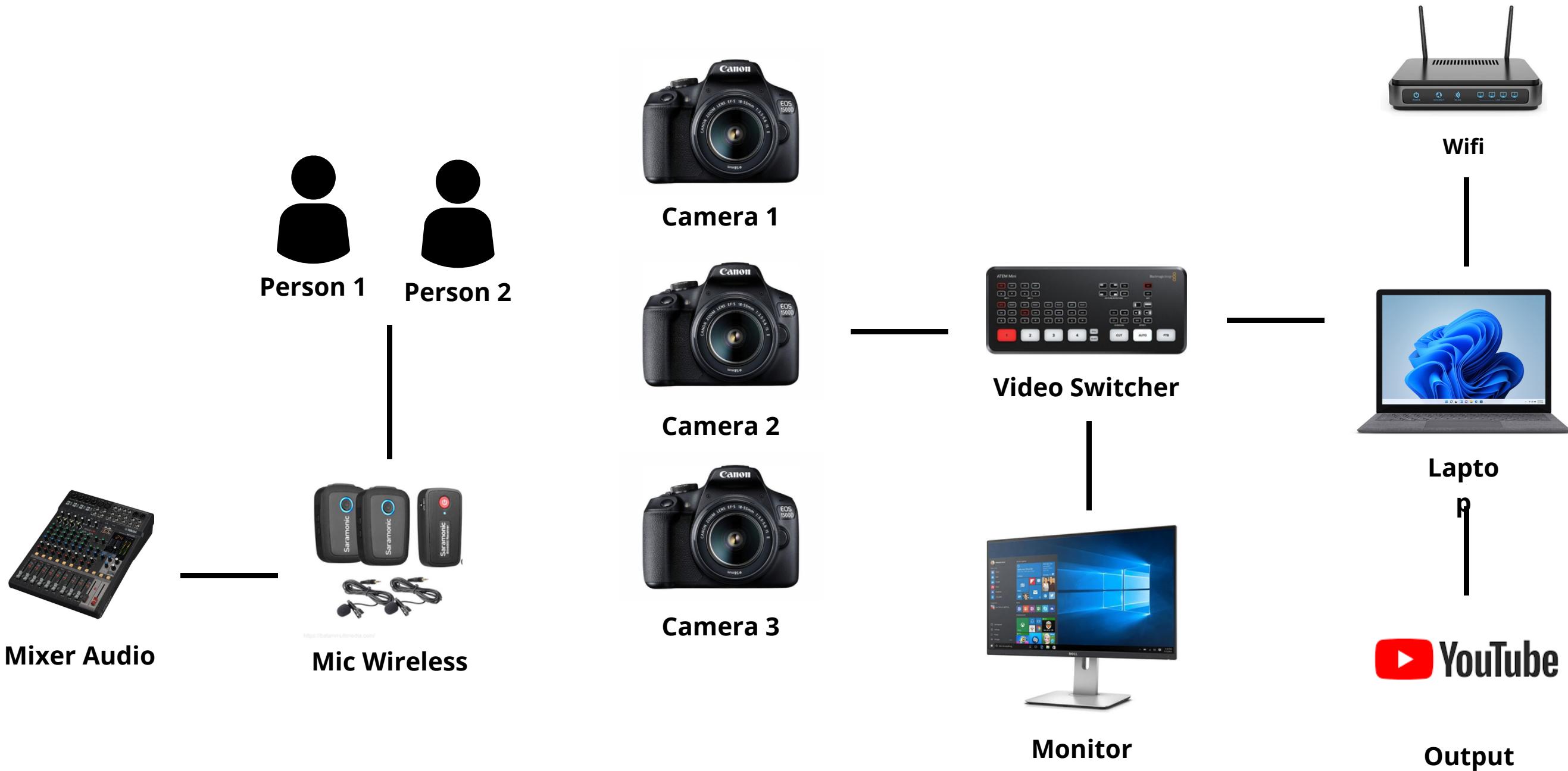
# BARELANG

## MARINE ROBOTICS TEAM



# **SKEMA LIVE STREAMING PODCAST**

## **“MARI KITA CURCOLL”**



**Camera** : Tiga unit kamera untuk merekam video dari berbagai sudut pandang yang berbeda.

**Video Switcher** : Video switcher digunakan untuk menggabungkan sinyal video dari ketiga kamera, untuk memudahkan switching penggunaan lebih dari satu kamera.

**Mic Wireless** : Sebagai alat perekam suara, penyiaran radio, pendengaran, maupun alat komunikasi lainnya dengan media wireless atau tanpa kabel.

**Mixer Audio** : Mixer Audio untuk mencampur berbagai sumber suara, mengola suara, mengatur, mengontrol input dan memperkuat sinyal suara menjadi suatu hasil keluaran yang diinginkan.

**Monitor** : Untuk memantau tampilan yang desang direkam dan ditampilkan kepada audience.

**Laptop** : Dengan perangkat OBS digunakan untuk memproduksi video.

**Wifi** : Koneksi internet untuk mengunggah streaming secara online.

**Output** : Sebuah platform untuk mengunggah video streaming.