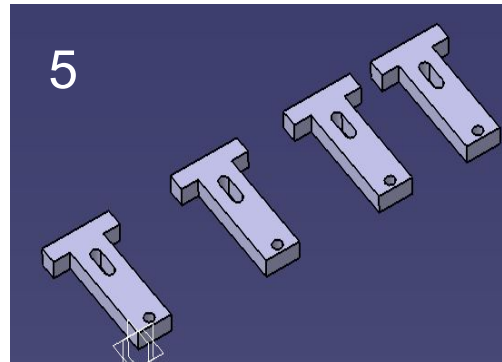
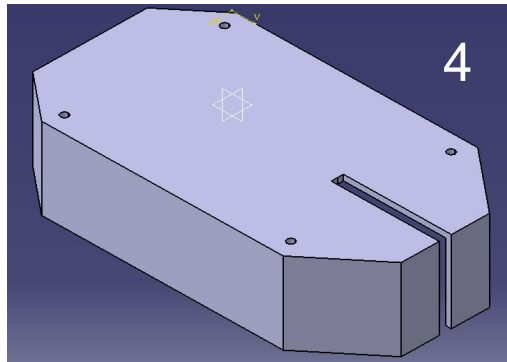
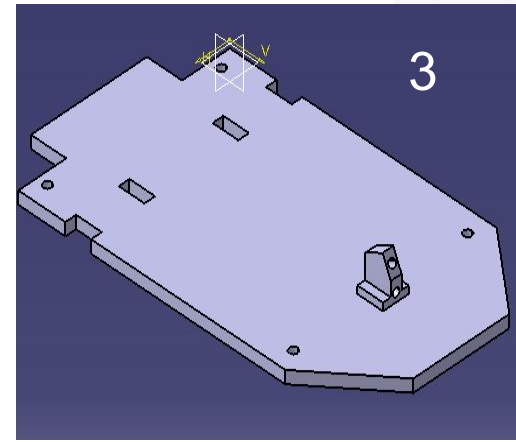
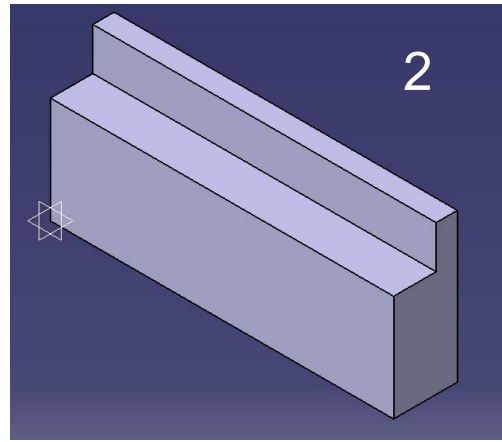
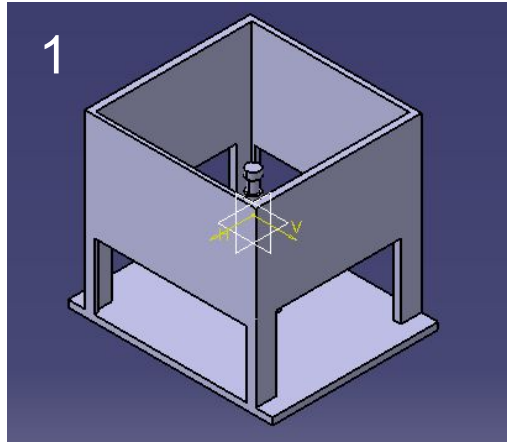


# AITEC

Tema: Construção de uma Arena Interativa para a  
Competição de Robôs

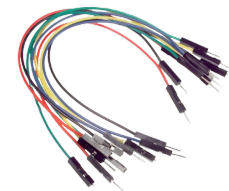
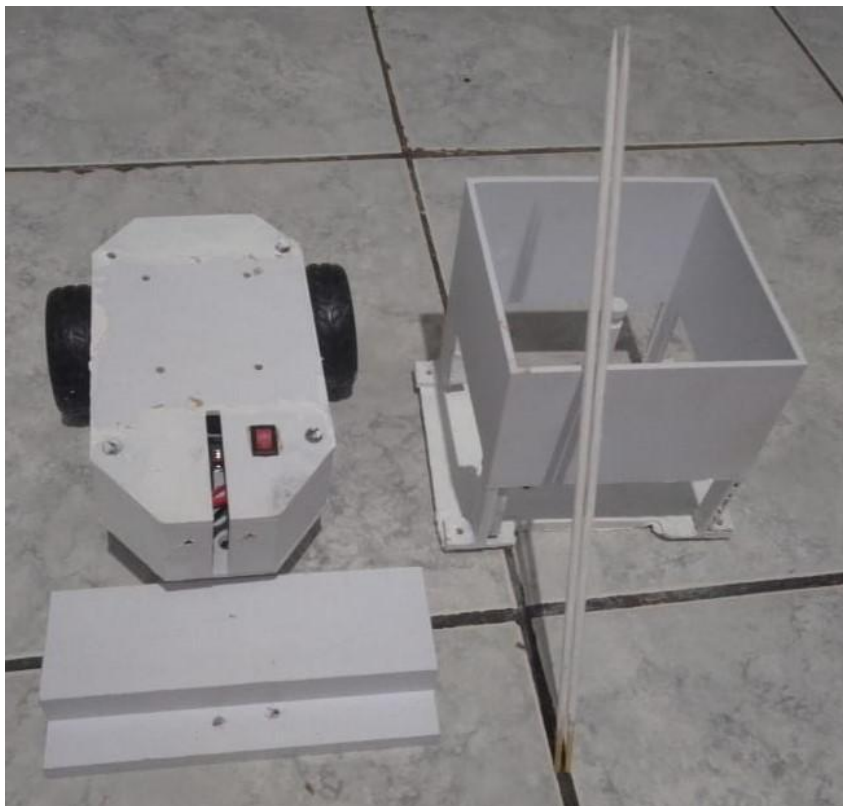
## Robô - CAD



1. Escudos;
2. Rampa;
3. Fixação Eletrônicos;
4. Proteção dos Eletrônicos;
5. Fixação Motores.

# Robô 1 - Componentes

AITEC



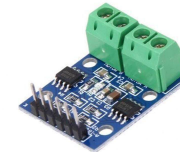
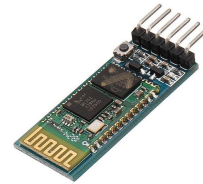
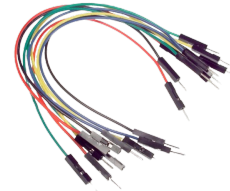
# Robô 1 - Testes

**AITEC**





## Robô 2 - Componentes



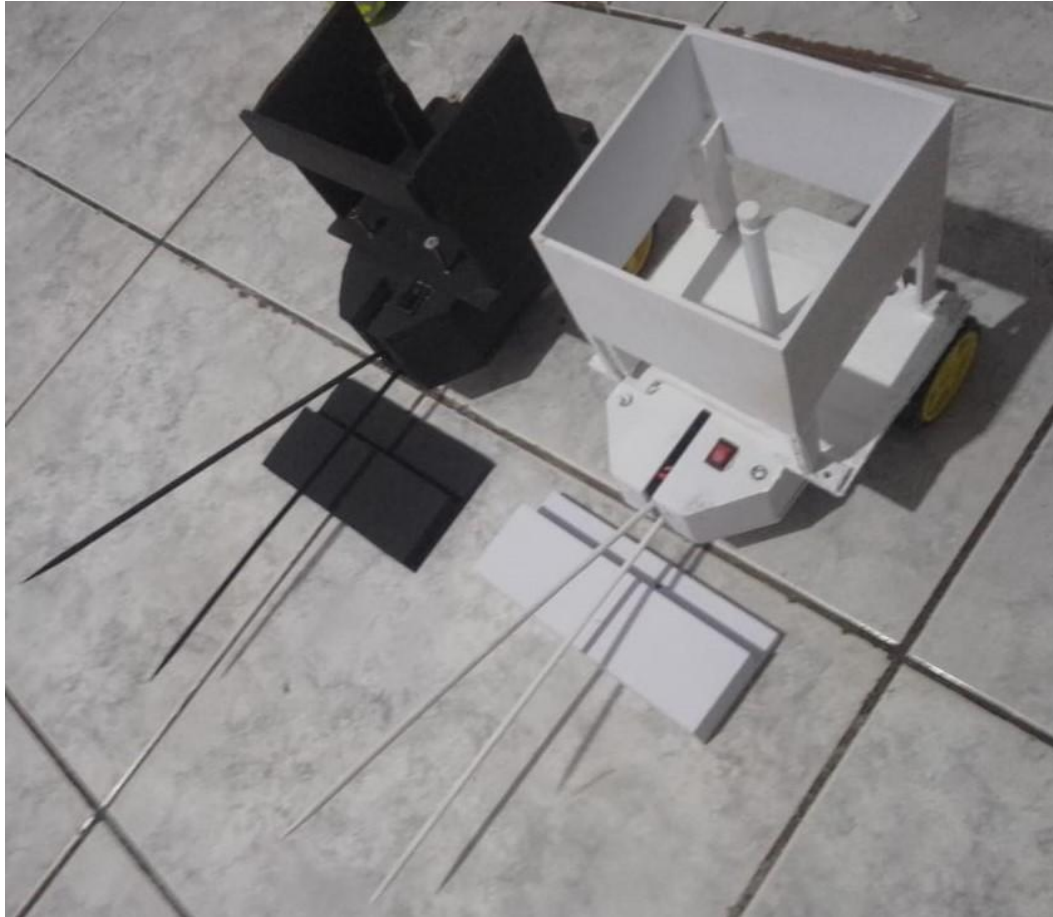
## Robô 2 - Testes

AITEC

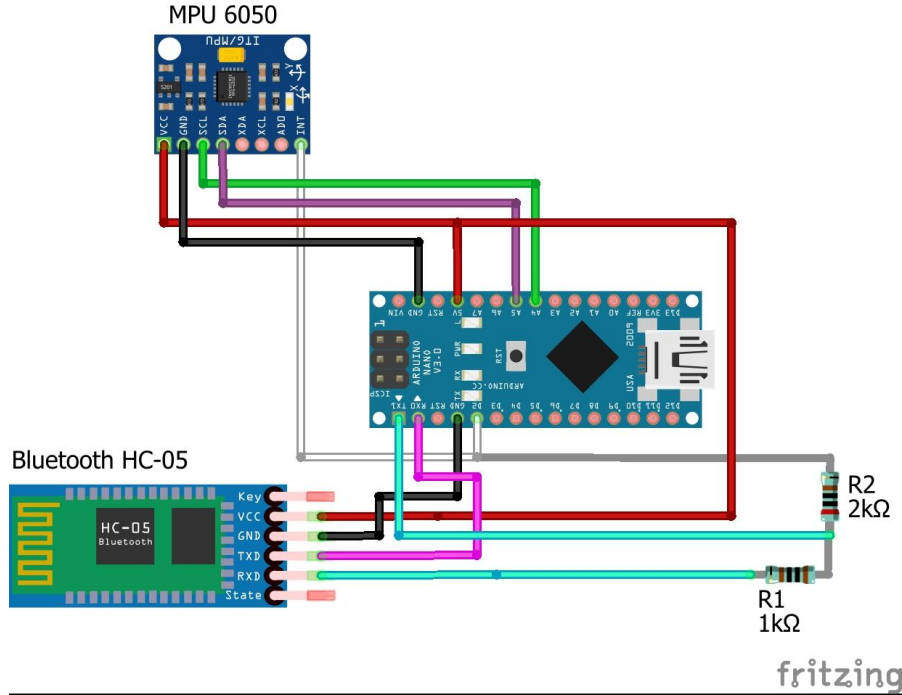


# Robôs Montados

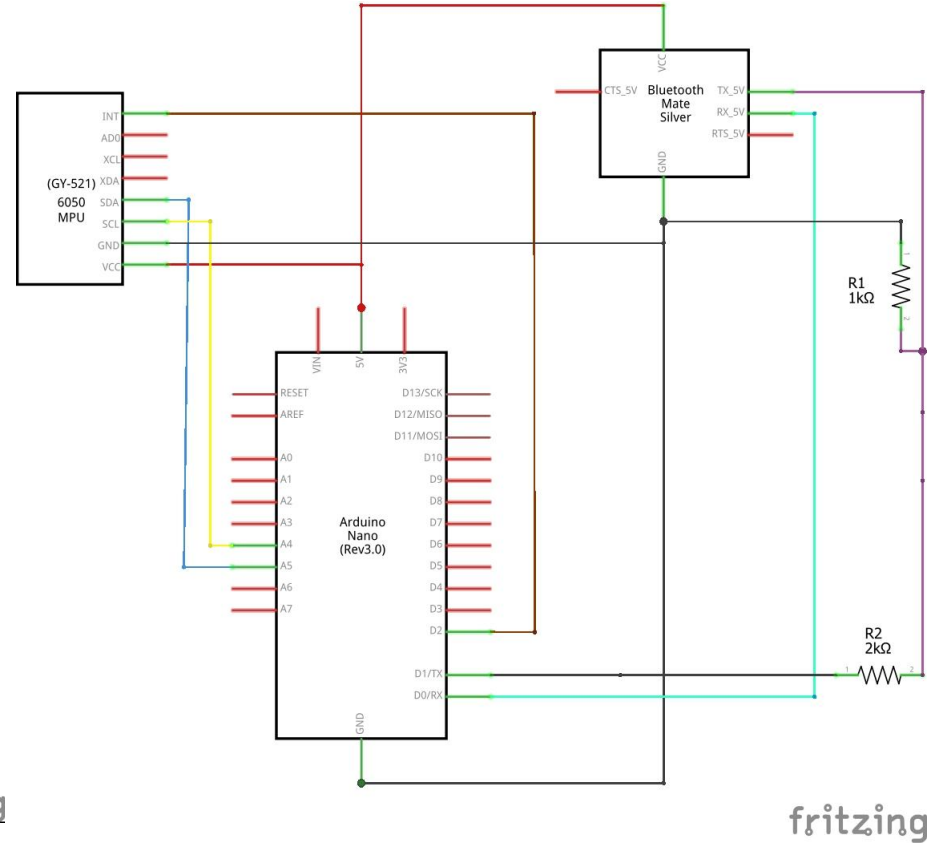
**AITEC**



# Controle

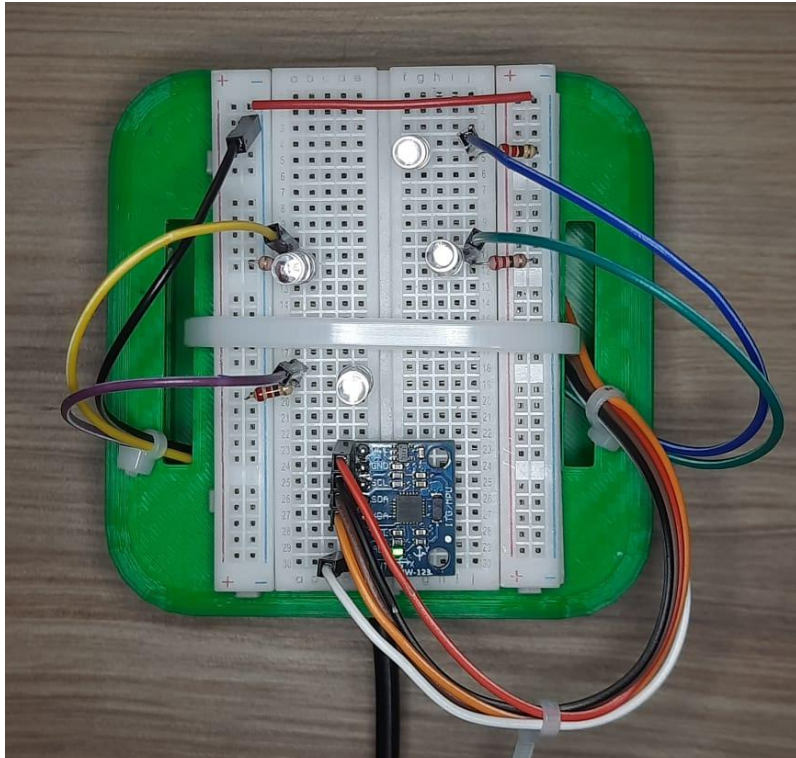


Circuito Elétrico

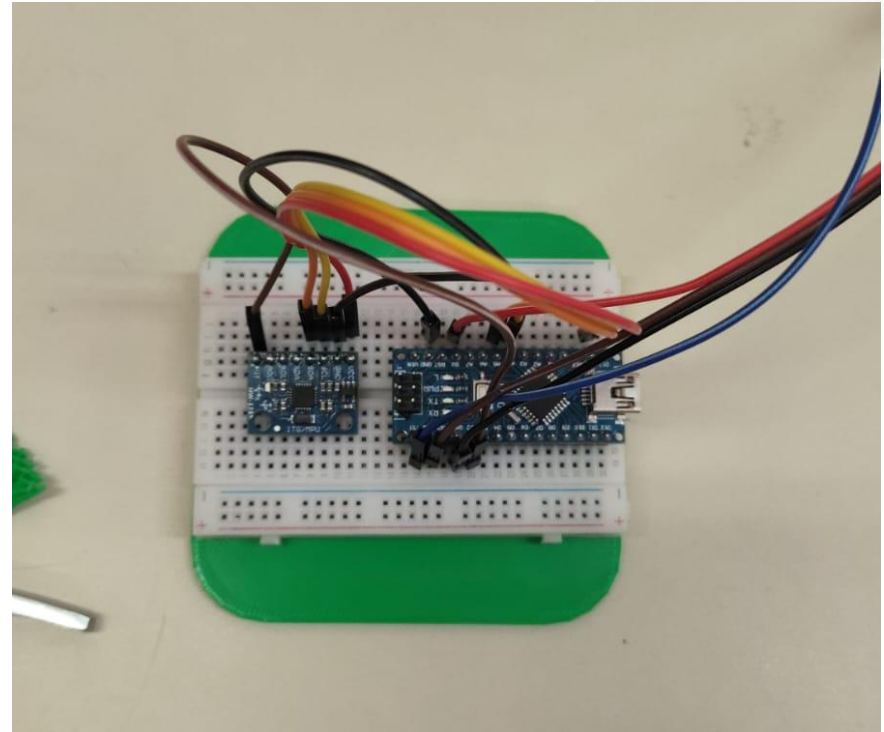


Esquemático Elétrico

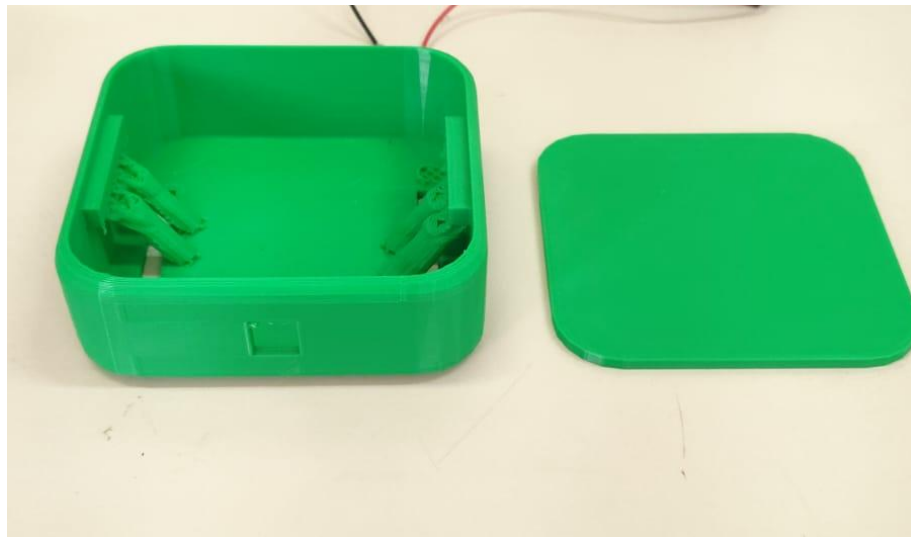




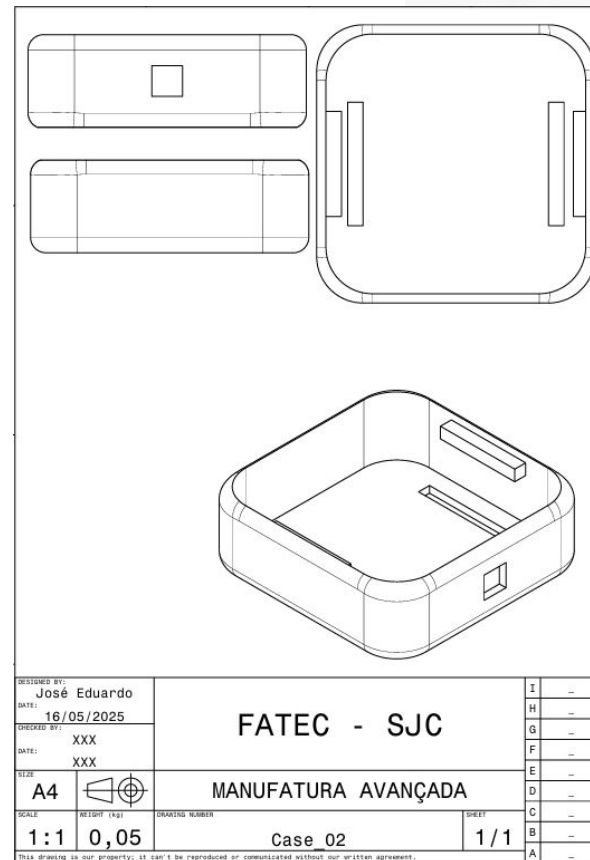
Case Controle com o  
Circuito Teste

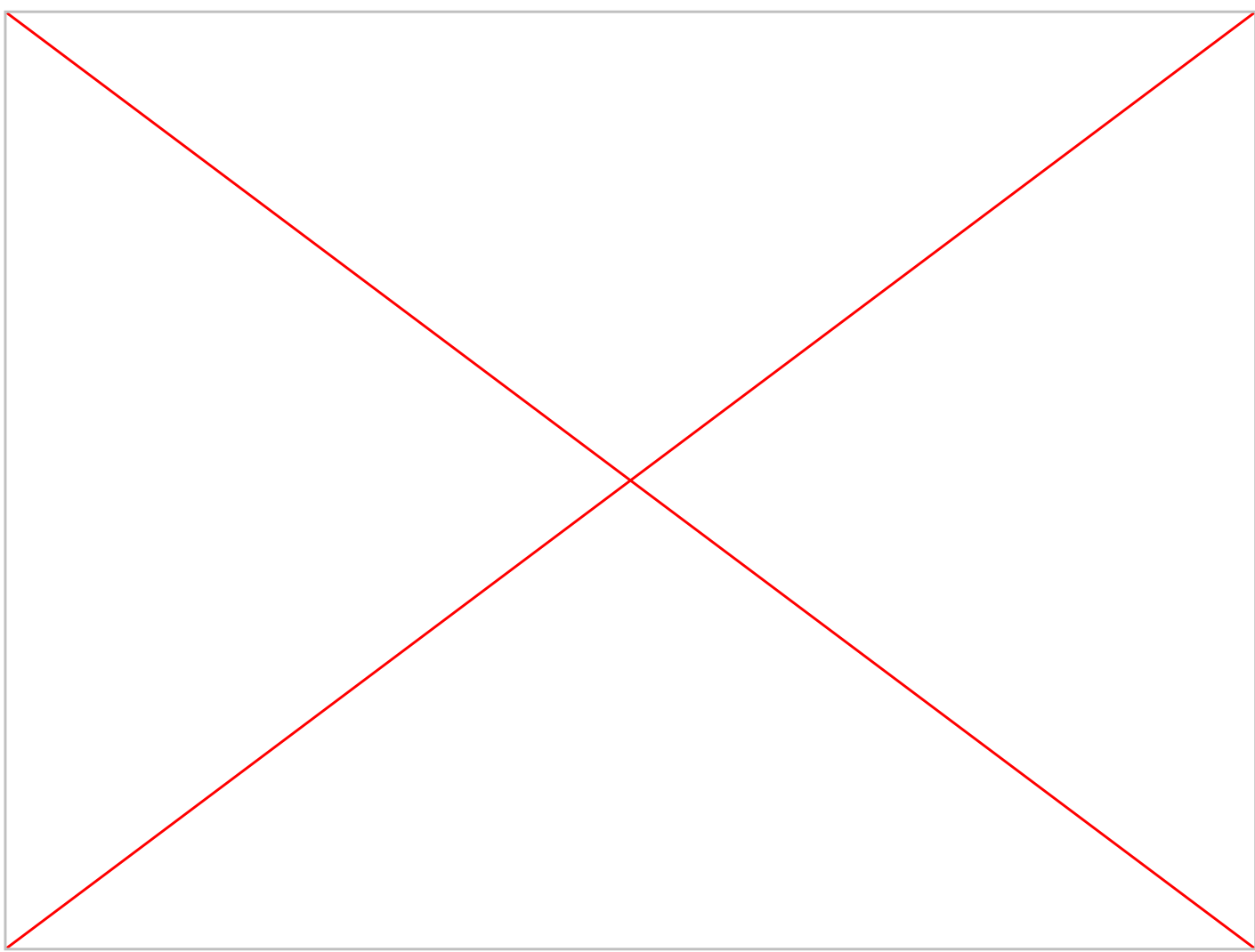


Circuito Inicial



## Case Inicial e Desenho Técnico





# Tabela de Valores

Item	Descrição	Quantidade	Unidade	Valor total
1	Arduino Nano Compatível V3 Atmega328 Ch340 Pino Vendido	1	PÇ	R\$ 31,91
2	Módulo Bluetooth Hc-05 - Rs232/bluetooth - Mestre / Escravo	1	PÇ	R\$ 33,22
3	Kit 2 Bateria Recarregável 18650 3.7v 4.2v Li-ion	2	PÇ	R\$ 60,00
4	1 peça 5.2x8.9cm padrão permanente placa de ensaio solda placa pcb protótipo placa protoboard diy protótipo eletrônico	1	PÇ	R\$ 13,90
5	Barra De Pinos Macho - 1x40 - 2,54mm Cor Preto	1	PÇ	R\$ 09,90
6	Kit Cabo Jumper Mxm + Mxf + Fxf 120 Unidades 20cm Arduino	1	PÇ	R\$ 26,00
7	Fita Auto Adesiva com material Macho + Fêmea 25mm Fixação De Pedais - 1 Metro PRETO	1	MT	R\$ 28,50
8	Suporte para 2 Baterias 18650	1	PÇ	R\$ 05,90
9	Peças geradas por impressão 3D	2	PÇ	R\$ 00,00
10	Kit com 40 LEDs Diversos 5mm Difusos - 4 CORES (Amarelo, Azul, Verde e Vermelho)	1	PÇ	R\$ 16,53
11	Acelerômetro E Giroscópio 3 Eixos Mpu-6050 Gy-521	1	PÇ	R\$ 14,90

Valor total  
R\$ 240,78

# Placar

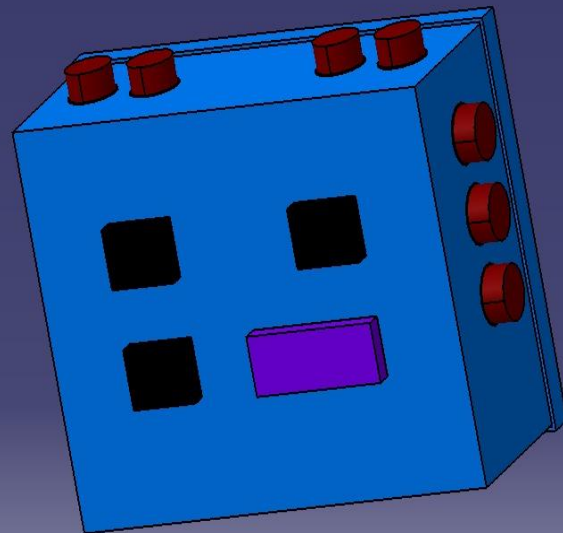
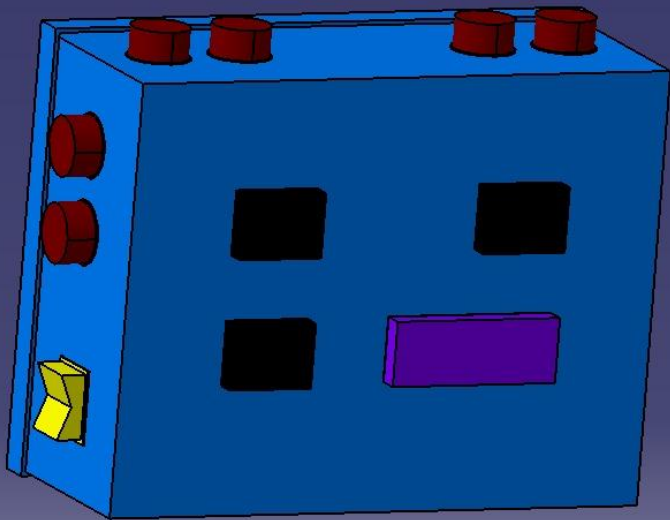
Modelo antigo





# Placar

Ideia para o novo design



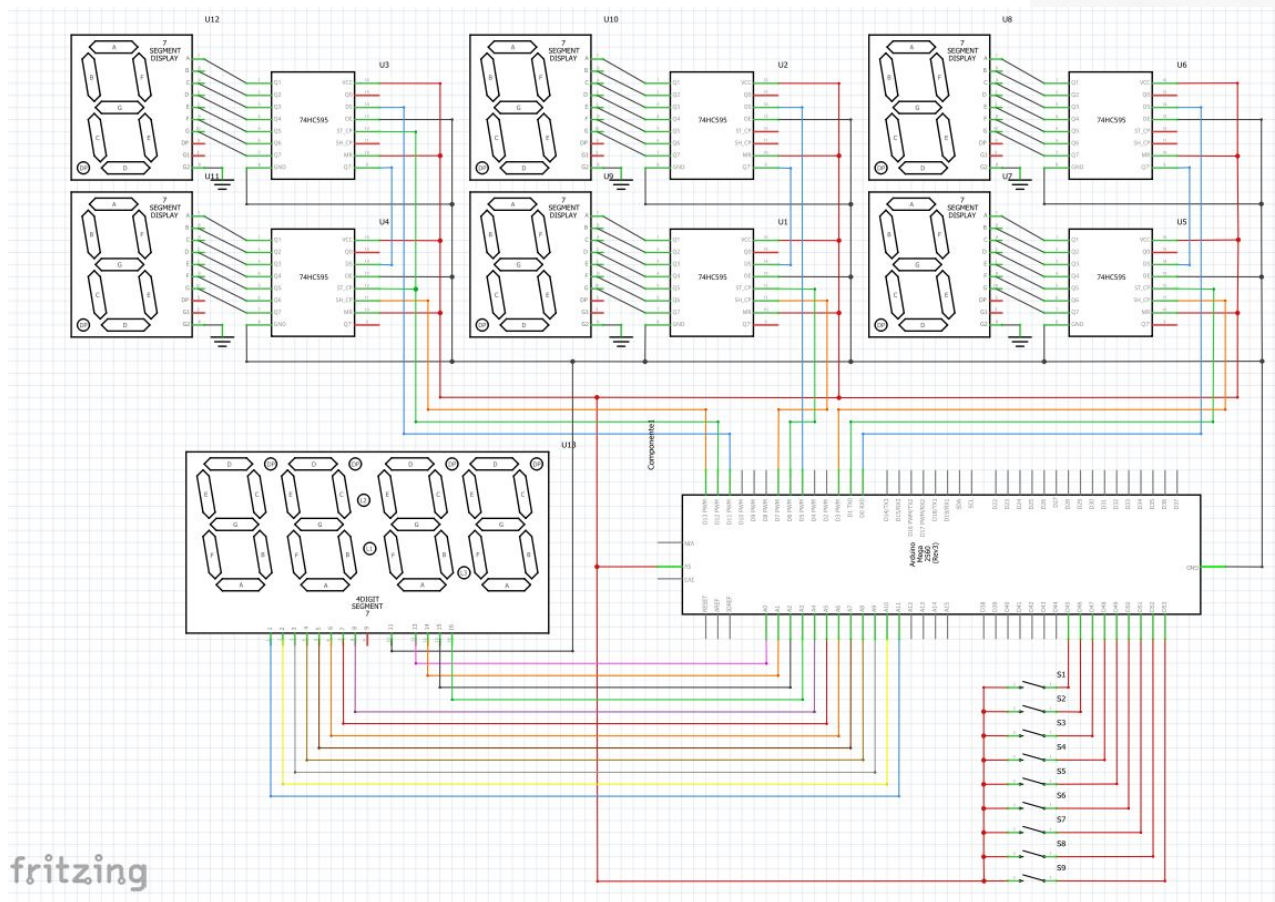
## Placar

O novo placar



## Placar

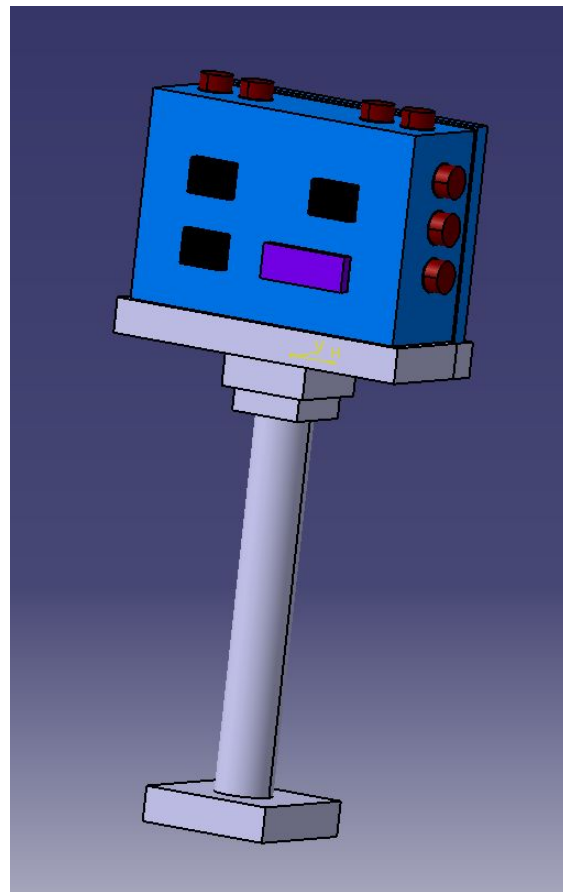
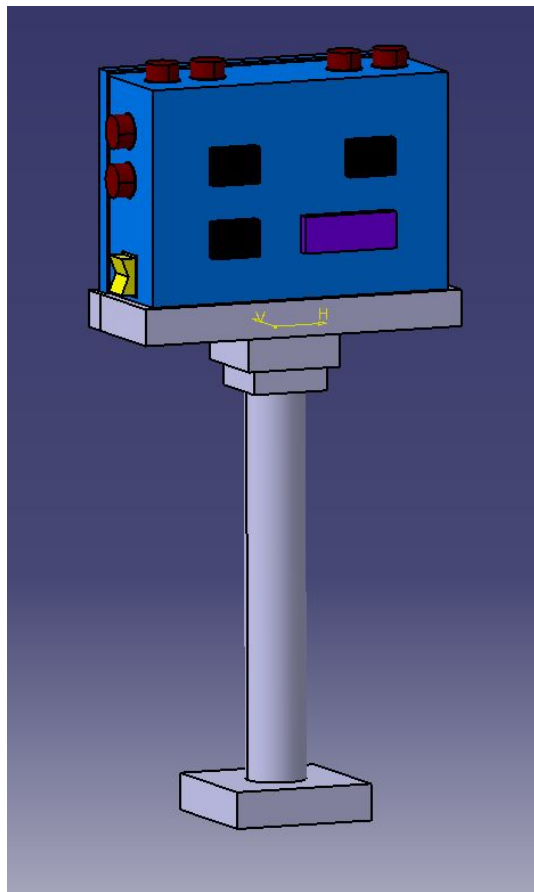
### Diagrama elétrico



Placar

Suporte

Pilar

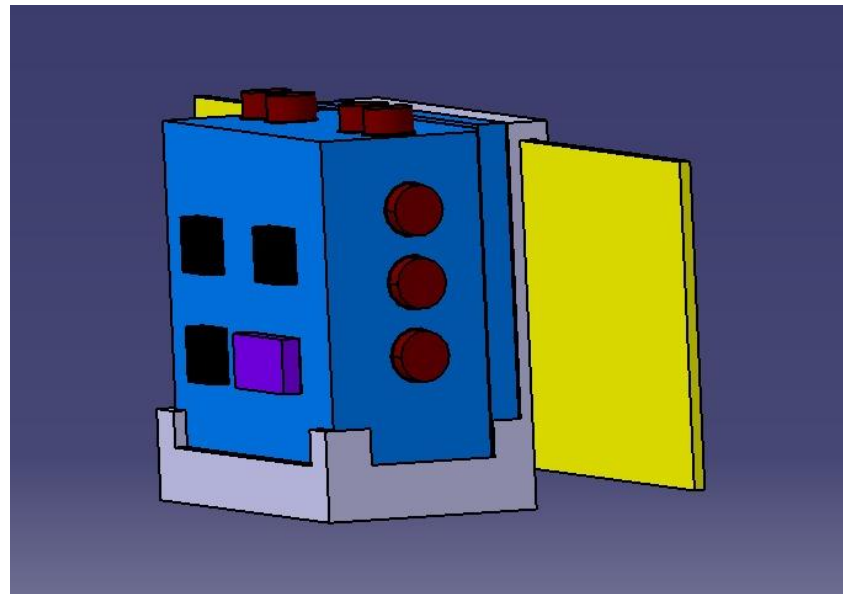
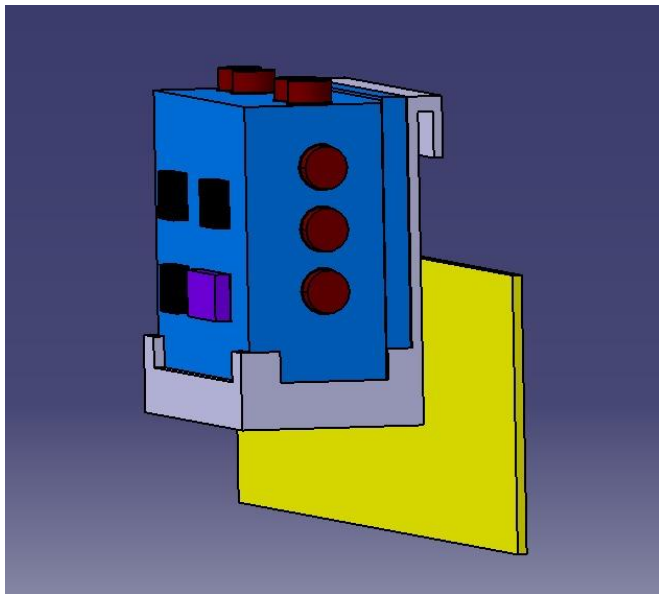


AITEC

Placar

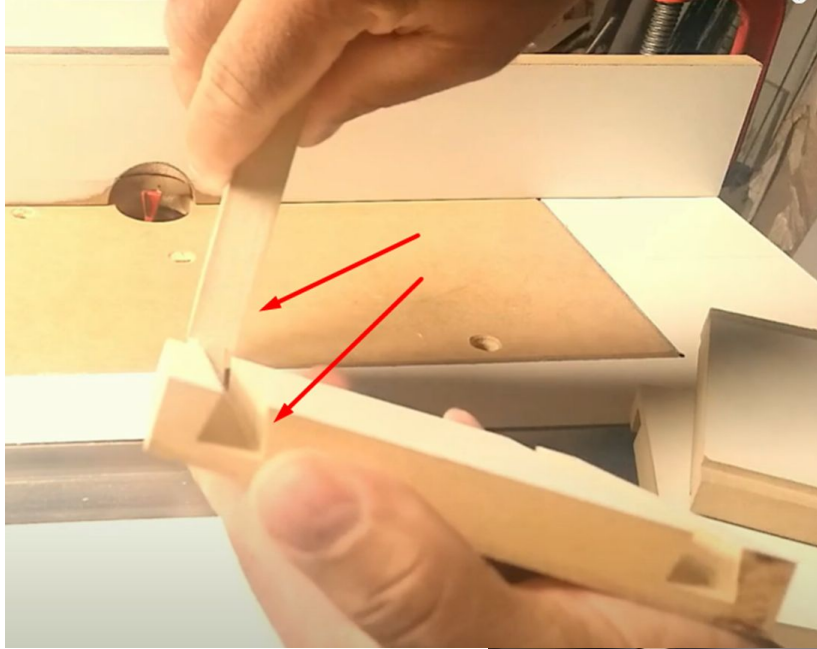
Suporte

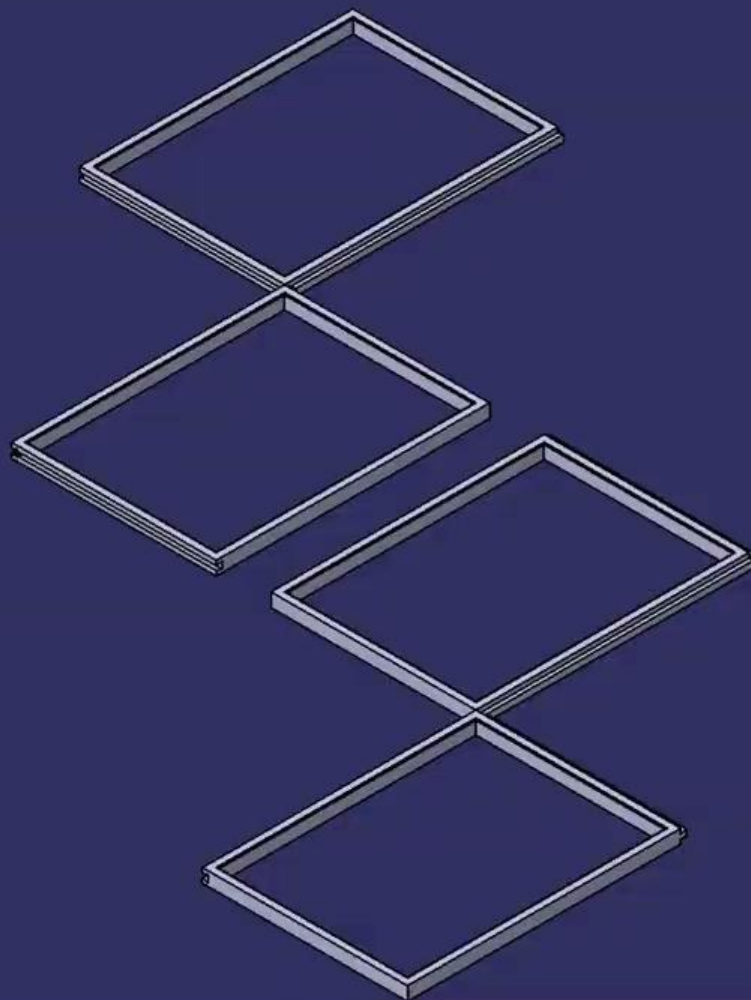
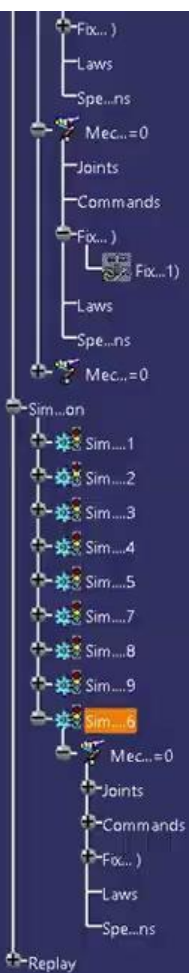
Gancho

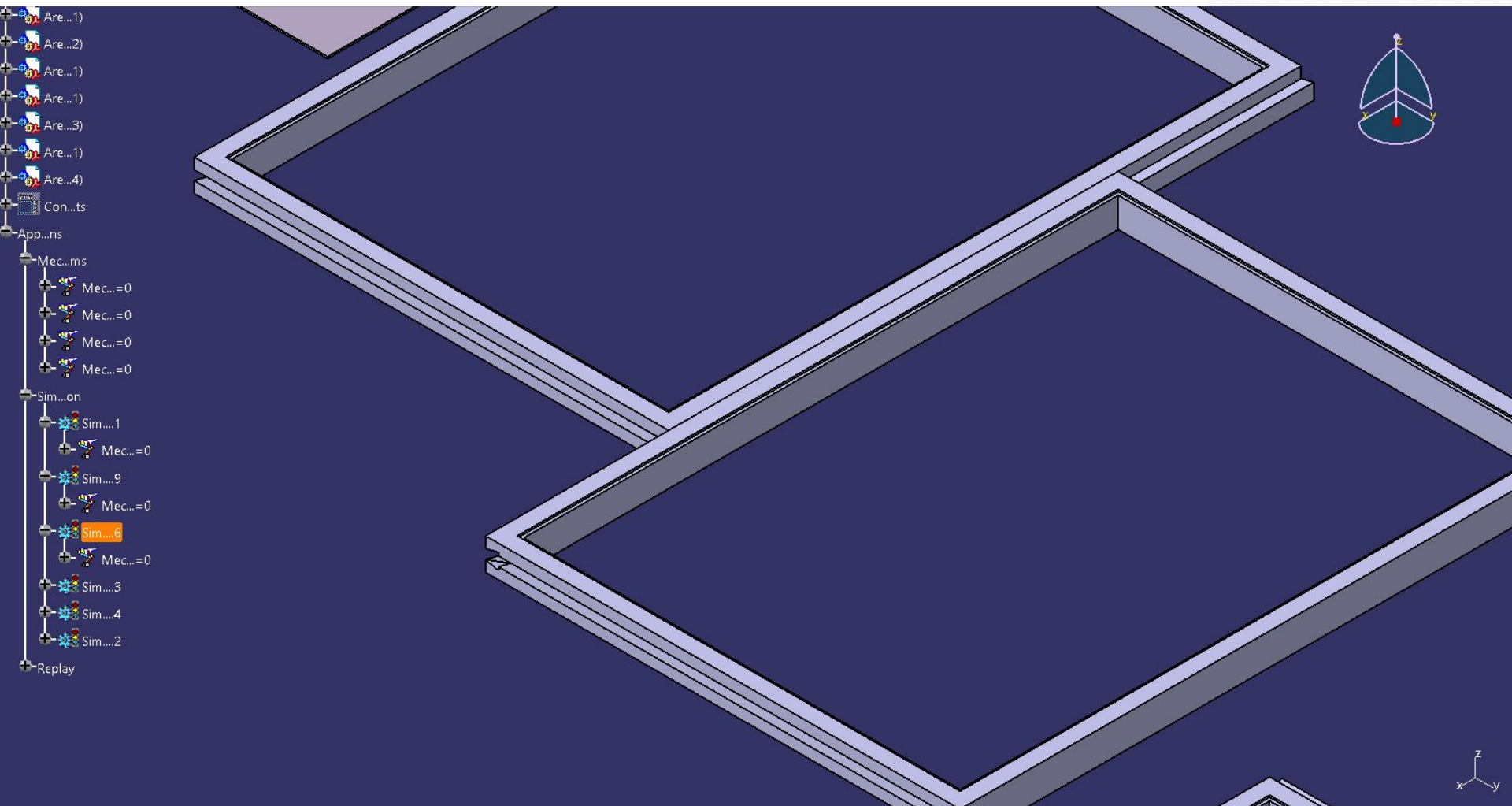


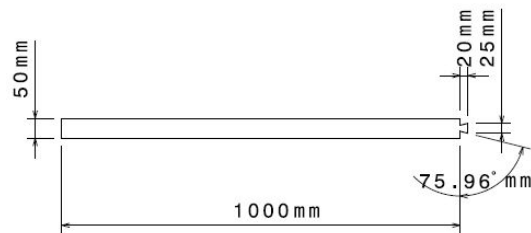
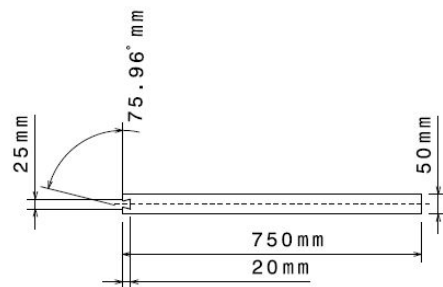
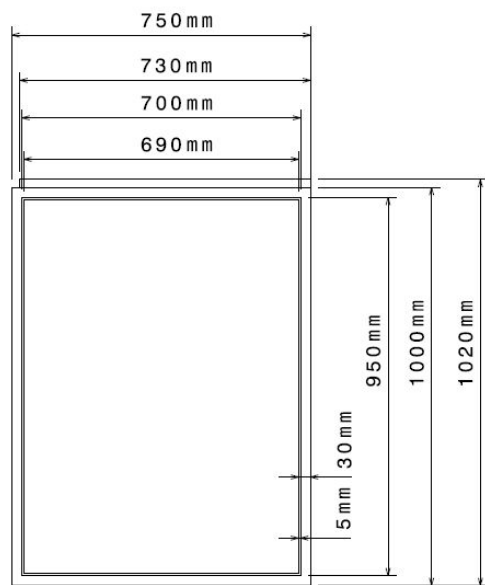


# Arena - Montável









**AITEC**

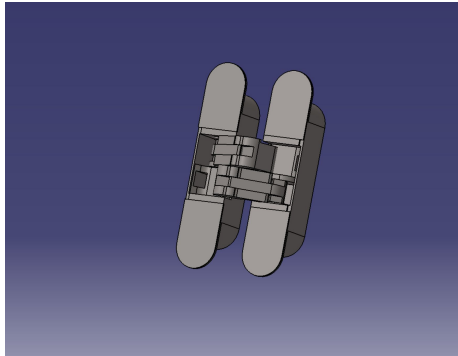
DESIGNED BY: elisfcampos	  		I	-
DATE: 27/05/2025			H	-
CHECKED BY: XXX			G	-
DATE: XXX			F	-
SIZE A3	Croqui_04		E	-
SCALE 1:10			D	-
WEIGHT (kg) XX	ArenaMontavel04A01		C	-
DRAWING NUMBER			B	-
SHEET 1/1			A	-

# Arena - Montável

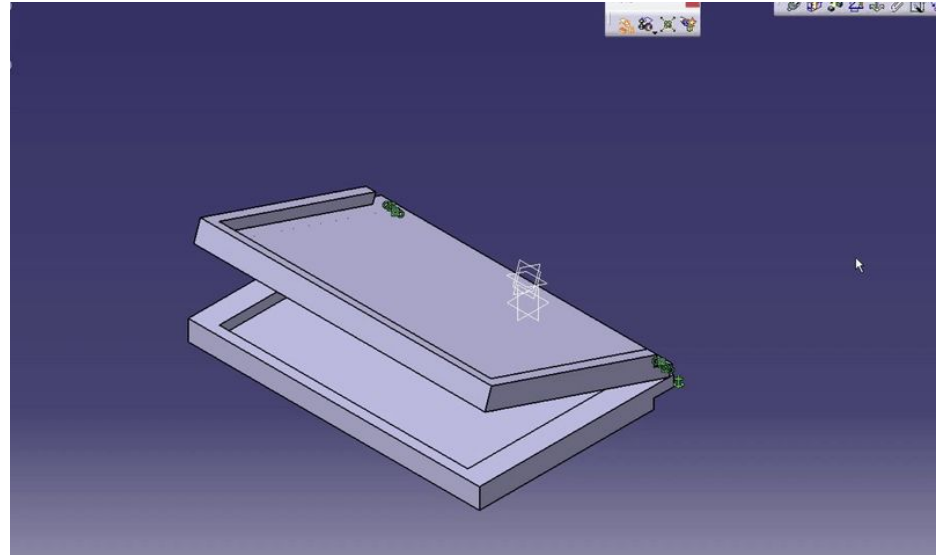
	Lateral Maior 8 Pedacos	Lateral Menor 8 Pedacos	Tampo 4 Chapas
<b>Metro Cúbico/Chapa</b>	0,00153	0,001155	0,001995
<b>Peso/Chapa</b>	1,071	0,8085	1,3965
<b>Total</b>	8,568	6,468	5,586
<b>Total Kg</b>	<b>20,622</b>	-	-



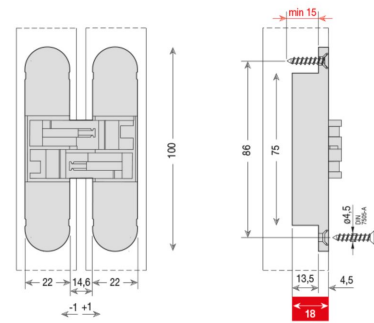
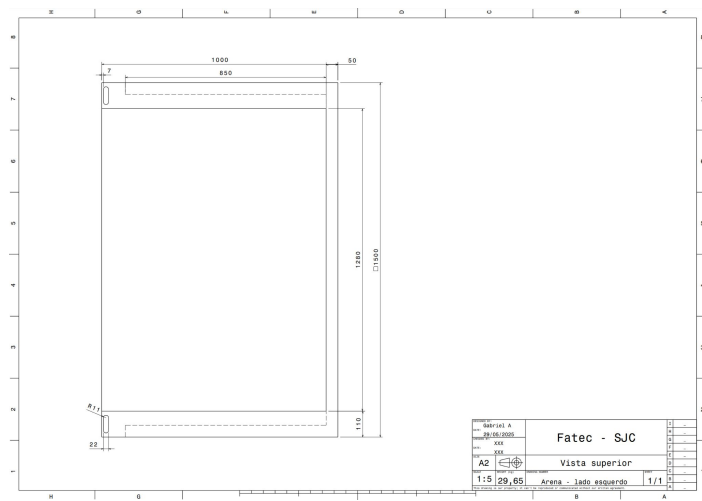
# Arena - dobradiça



dobradiça invisível(oculta)



# Arena - dobradiça



# Arena dobradiça

Componente	Qtd. Barras / Partes	Volume Total (m³)	Densidade (kg/m³)	Peso Total (kg)
Piso	2 partes	0.015	700	10.5
Calço (todos)	6 barras (total)	0.01275	500	6.38
Barramento Sup. (curto)	4 barras	0.0209	500	10.45
Barramento Sup. (longo)	2 barras	0.0075	500	3.75
TOTAL GERAL	-	0.05615	-	31.08

QR CODE

GitHub

