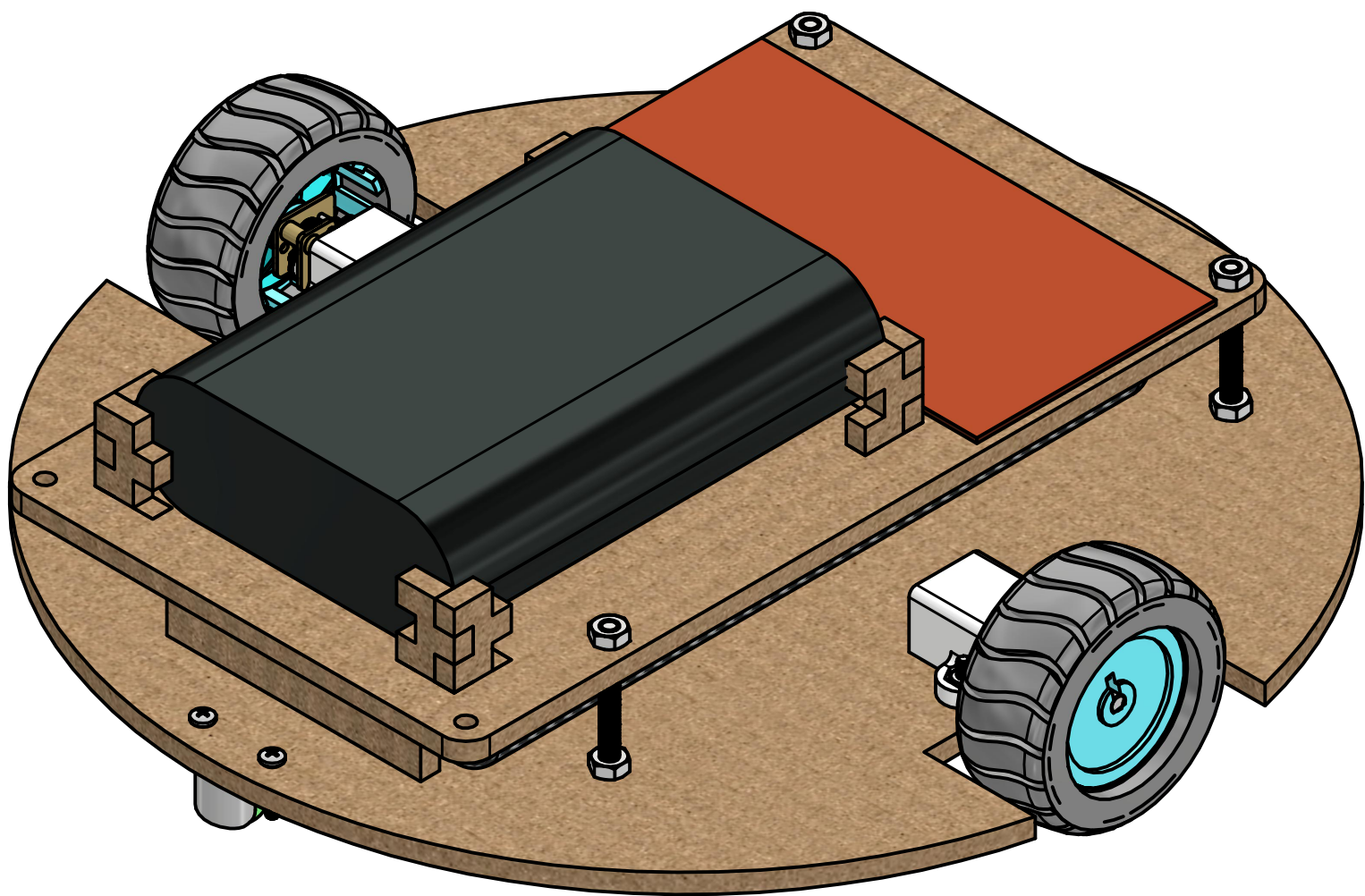# LAB 05 - ROBÓTICA INDUSTRIAL

2024-2

ROBOT MÓVIL DE TRACCIÓN DIFERENCIAL
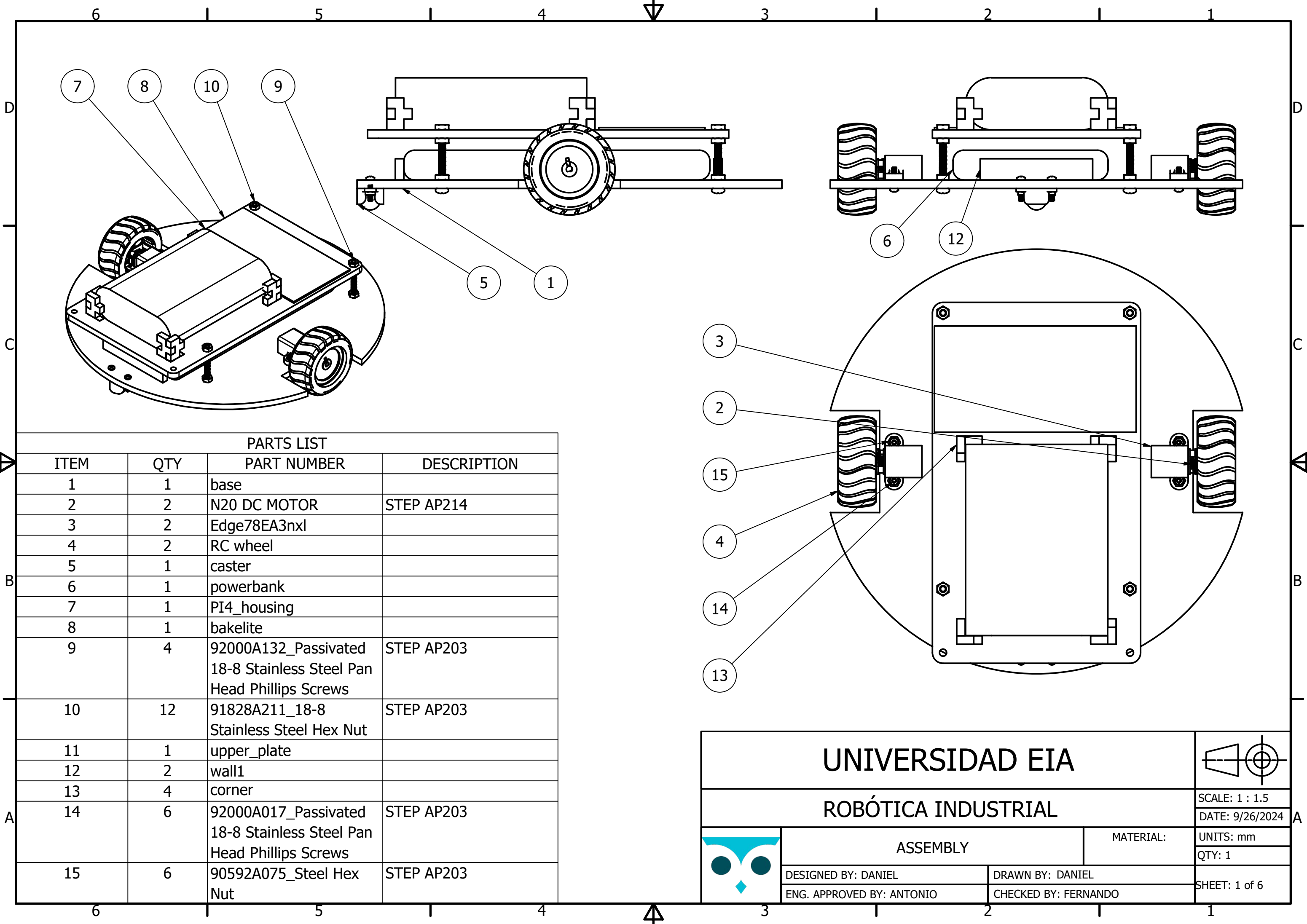
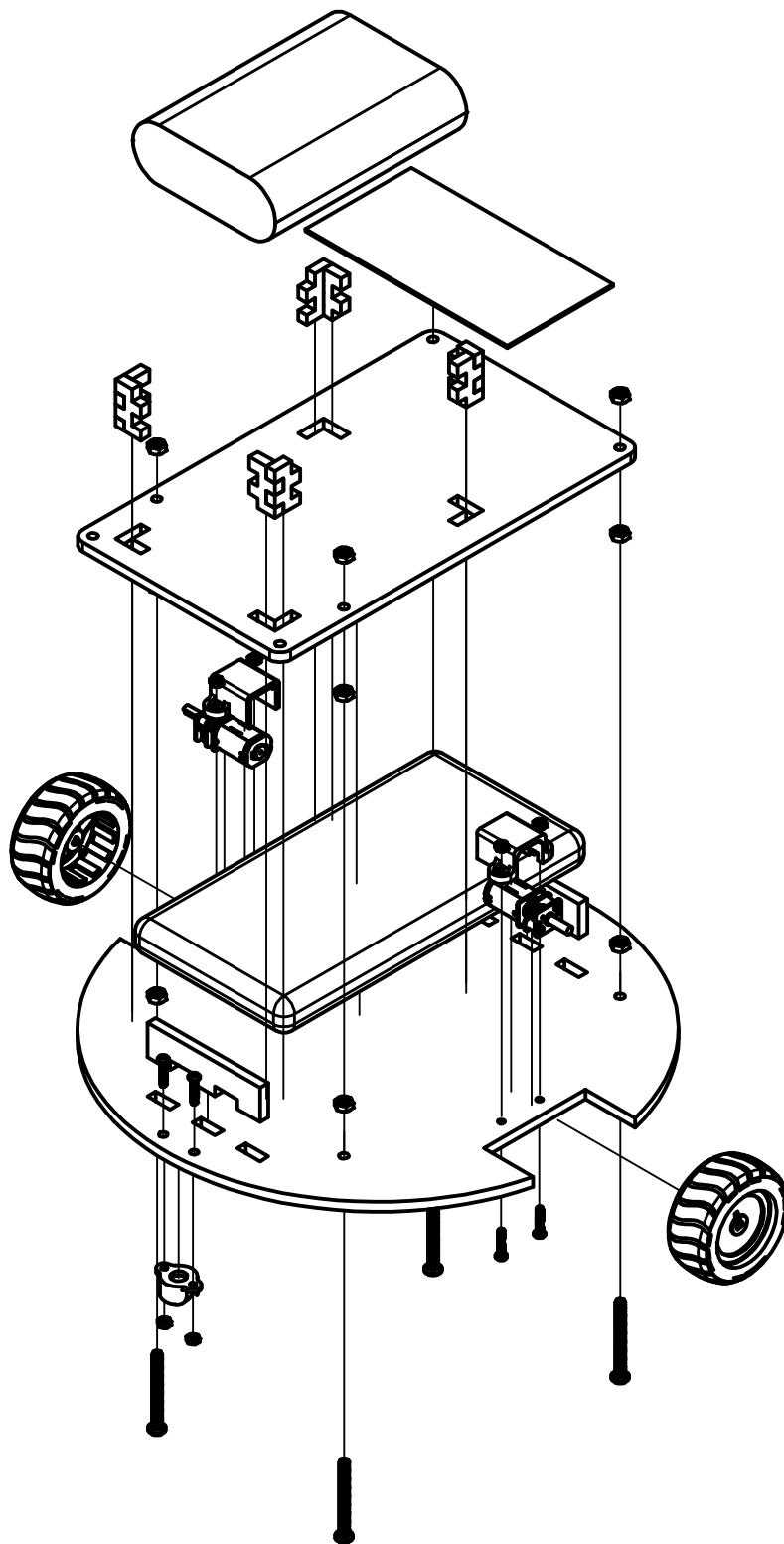ANTONIO COCK   DANIEL CORREA   FERNANDO VELILLA

TOMÁS VÉLEZ   RAÚL VILLAMIL
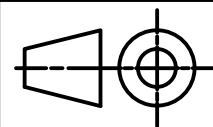
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	base	
2	2	N20 DC MOTOR	STEP AP214
3	2	Edge78EA3nxl	
4	2	RC wheel	
5	1	caster	
6	1	powerbank	
7	1	PI4_housing	
8	1	bakelite	
9	4	92000A132_Passivated 18-8 Stainless Steel Pan Head Phillips Screws	STEP AP203
10	12	91828A211_18-8 Stainless Steel Hex Nut	STEP AP203
11	1	upper_plate	
12	2	wall1	
13	4	corner	
14	6	92000A017_Passivated 18-8 Stainless Steel Pan Head Phillips Screws	STEP AP203
15	6	90592A075_Steel Hex Nut	STEP AP203

UNIVERSIDAD EIA		
ROBÓTICA INDUSTRIAL		SCALE: 1:2.5
		DATE: 9/26/2024
ASSEMBLY	MATERIAL:	UNITS: mm
		QTY: 1
DESIGNED BY: DANIEL	DRAWN BY: DANIEL	SHEET: 2 of 6
ENG. APPROVED BY: ANTONIO	CHECKED BY: FERNANDO	
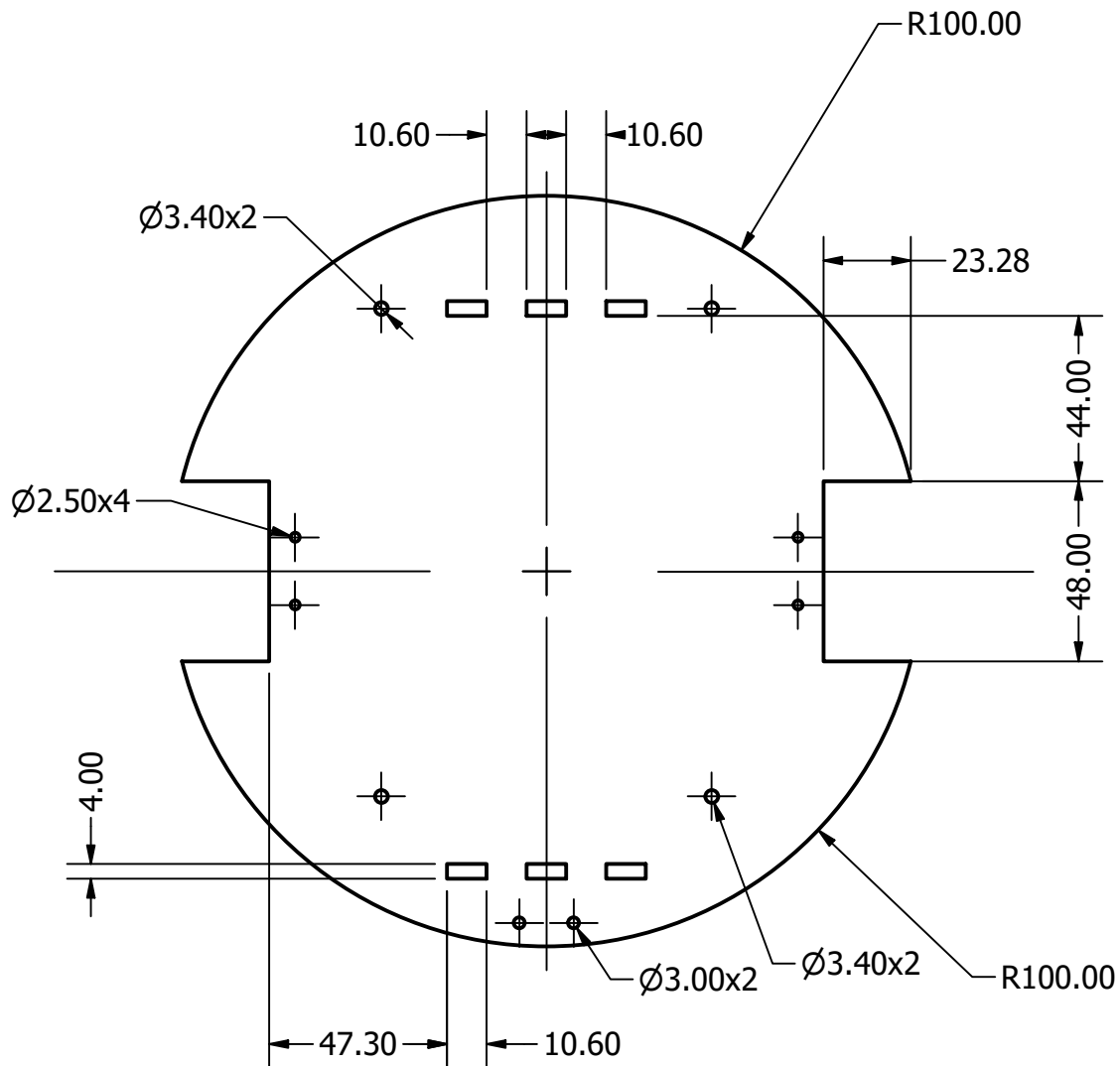
R100.00

10.60 — ←10.60

Ø3.40x2

23.28

44.00

48.00

Ø2.50x4

4.00

Ø3.00x2   Ø3.40x2   R100.00

47.30   10.60

GROSOR DE LA LAMINA: 4mm

METODO DE MANUFACTURA: CORTE LASER
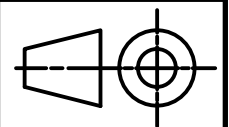
UNIVERSIDAD EIA			
ROBÓTICA INDUSTRIAL			SCALE: 1 / 2
			DATE: 9/26/2024
BASE		MATERIAL: MDF Medium Density Fiberboard	UNITS: mm
			QTY: 1
DESIGNED BY: FERNANDO	DRAWN BY: FERNANDO		SHEET: 3 of 6
ENG. APPROVED BY: ANTONIO	CHECKED BY: DANIEL		
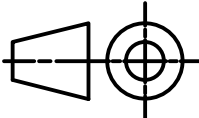
53.00

4.00

14.00

10.60

10.60

GROSOR DE LA LAMINA: 4mm
METODO DE MANUFACTURA: CORTE LASER

UNIVERSIDAD EIA		
ROBÓTICA INDUSTRIAL		SCALE: 2 : 1
		DATE: 9/26/2024
WALL 1	MATERIAL: MDF Medium Density Fiberboard	UNITS: mm
		QTY: 2
DESIGNED BY: FERNANDO	DRAWN BY: FERNANDO	SHEET: 4 of 6
ENG. APPROVED BY:	CHECKED BY: TOMAS	
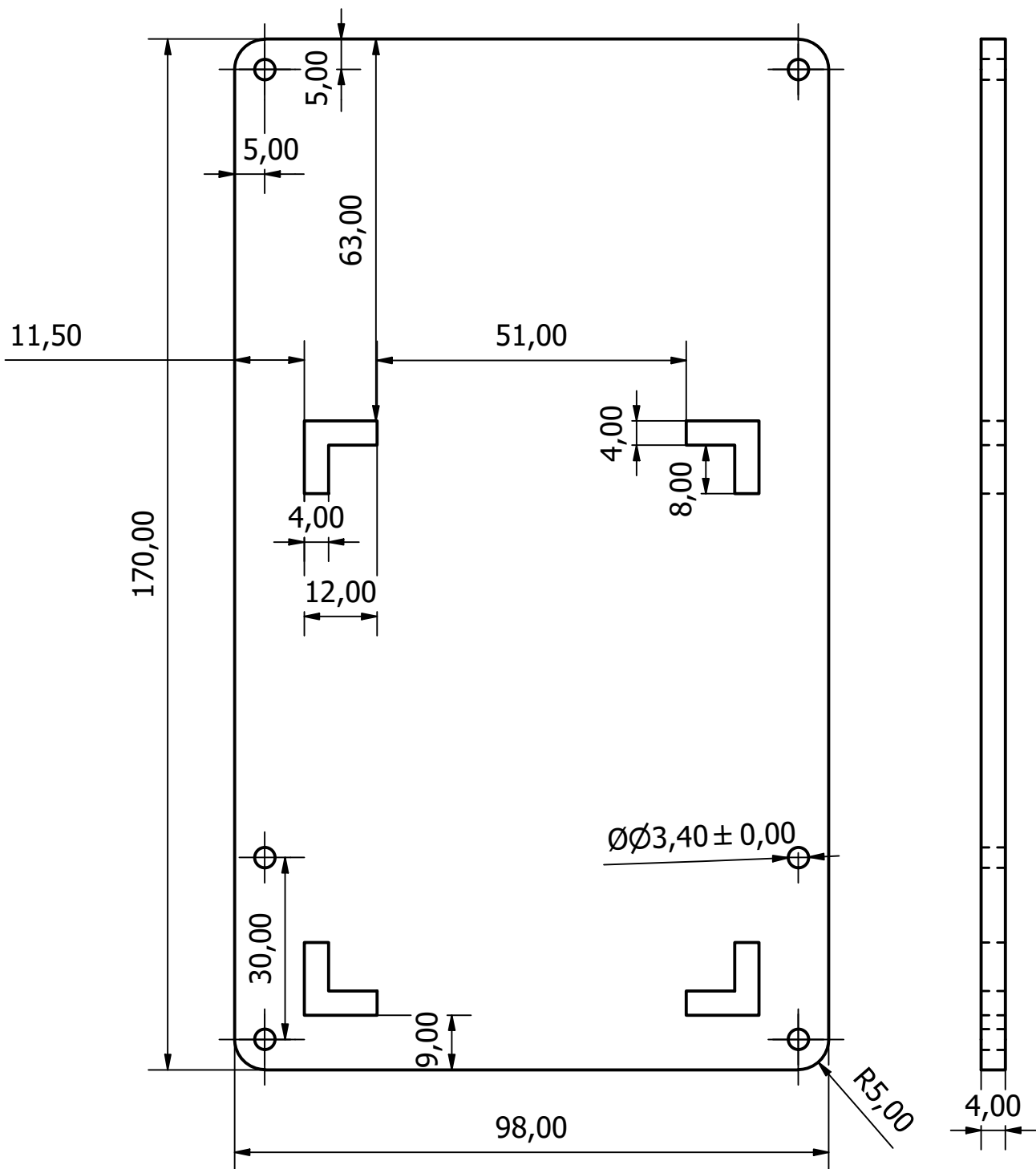
METODO DE MANUFACTURA: CORTE LASER
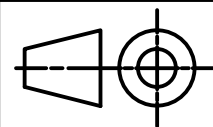
UNIVERSIDAD EIA			
ROBÓTICA INDUSTRIAL			SCALE: 1 : 1
			DATE: 9/26/2024
UPPER PLATE		MATERIAL: MDF Medium Density Fiberboard	UNITS: mm
			QTY: 1
DESIGNED BY: TOMÁS	DRAWN BY: TOMÁS		SHEET: 5 of 6
ENG. APPROVED BY: DANIEL	CHECKED BY: DANIEL		
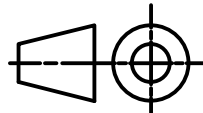
Dimensions shown: 5,00 · 5,00 · 63,00 · 11,50 · 51,00 · 4,00 · 8,00 · 4,00 · 12,00 · 170,00 · 30,00 · ØØ3,40 ± 0,00 · 9,00 · 98,00 · R5,00 · 4,00

19,00

5,00

4,00

8,00

4,00

4,00

METODO DE MANUFACTURA: CORTE LASER

UNIVERSIDAD EIA		
ROBÓTICA INDUSTRIAL		SCALE: 4 : 1
		DATE: 9/26/2024
WALL 2	MATERIAL: MDF Medium Density Fiberboard	UNITS: mm
		QTY: 8
DESIGNED BY: TOMÁS	DRAWN BY: TOMÁS	SHEET: 6 of 6
ENG. APPROVED BY: DANIEL	CHECKED BY: DANIEL	