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HORIGROUS) -> PULL-DP
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BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm x 78.7400 mm

Min track/spacing: 0.1000 mm / 0.1000 mm Min hole diameter: 0.3000 mm

Copper Finish: None Impedance Control: No Castellated pads: No Plated Board Edge: No

Edge card connectors: No

Layer Name	Туре	Material	Thickness (mm)	Color	Epsilon R	Loss Tangent
F.Silkscreen	Top Silk Screen	Not specified	0 mm	Not specified	1	0
F.Paste	Top Solder Paste		0 mm		1	0
F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen		
Team 5		
Sheet:		
File: robot-mo	therboard.kicad_pcb	
Title: Robo	t Motherboard	
Size: A4	Date: 2025-07-04	Rev: v1.1.0

Size: A4 Date: 2025-07-04 **Rev: V1.1.0**KiCad E.D.A. 9.0.2 Id: 1/4

129.3 82.4 62.4

BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm x 78.7400 mm

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F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen	
Team 5	
Sheet:	
File: robot-motherboard.kicad_pcb	
Title: Debet Metherheard	

litle: Kodot		
Size: A4	Date: 2025-07-04	Rev: v1.1.0
KiCad E.D.A. 9.0	2	ld: 2/4

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129.3 82.4 3V3 OUT GND WingO_S 3V3 SDA SCL GND 12C0 470R 10K 4k7 4k7 4k7 4k7 I2CO Pull-ups (Optional) I2C1 Pull-ups VOUT+ ROBOT v1.1.0 MOTHERBOARD VOUT-User.Input G1 SSD1306_OLED -INO -N1 C11 --- ---Extra ----GND 12 2 RX0 TX0 C3

BOARD CHARACTERISTICS

2 1.6000 mm Copper Layer Count: Board Thickness:

Board overall dimensions: 129.2860 mm x 78.7400 mm

Min track/spacing: 0.1000 mm / 0.1000 mm Min hole diameter: 0.3000 mm

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F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen		
Team 5		
Sheet:		
File: robot-n	notherboard.kicad_pcb	
Title: Rob	ot Motherboard	
Cizo. A/ı	Data: 2025 07 0/	Pove v1.1.0

litle: Kobot		
Size: A4	Date: 2025-07-04	Rev: v1.1.0
KiCad E.D.A. 9.0.	2	ld: 3/4

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83.PPH

13. PPH

13. PPH

14. PR2

15. PR3

10. PR3

BOARD CHARACTERISTICS

Copper Layer Count: 2 Board Thickness: 1.6000 mm

Board overall dimensions: 129.2860 mm x 78.7400 mm

Min track/spacing: 0.1000 mm / 0.1000 mm Min hole diameter: 0.3000 mm

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Edge card connectors: No

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F.Mask	Top Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
F.Cu	copper		0.035 mm		1	0
Dielectric	core	FR4	1.51 mm	Not specified	4.5	0.02
B.Cu	copper		0.035 mm		1	0
B.Mask	Bottom Solder Mask	Not specified	0.01 mm	Not specified	3.3	0
B.Paste	Bottom Solder Paste		0 mm		1	0
B.Silkscreen	Bottom Silk Screen	Not specified	0 mm	Not specified	1	0

George Sleen

Team 5
Sheet:
File: robot-motherboard.kicad_pcb

 Title: Robot Motherboard

 Size: A4
 Date: 2025-07-04
 Rev: v1.1.0

 KiCad E.D.A. 9.0.2
 Id: 4/4

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