

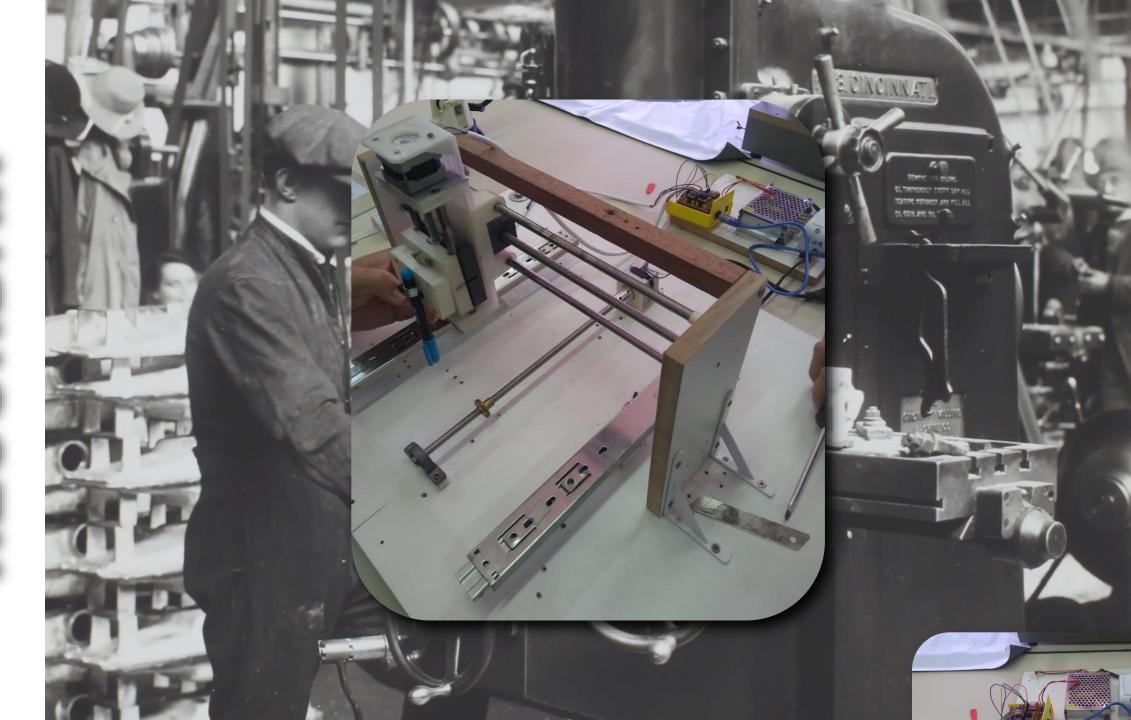


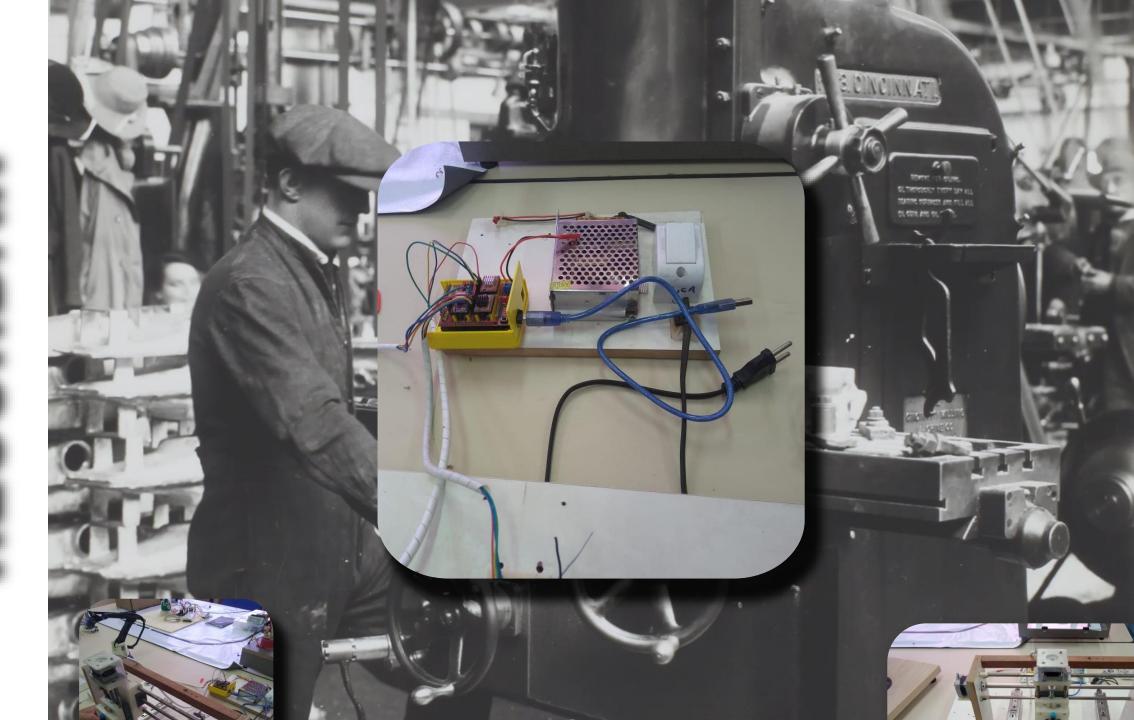


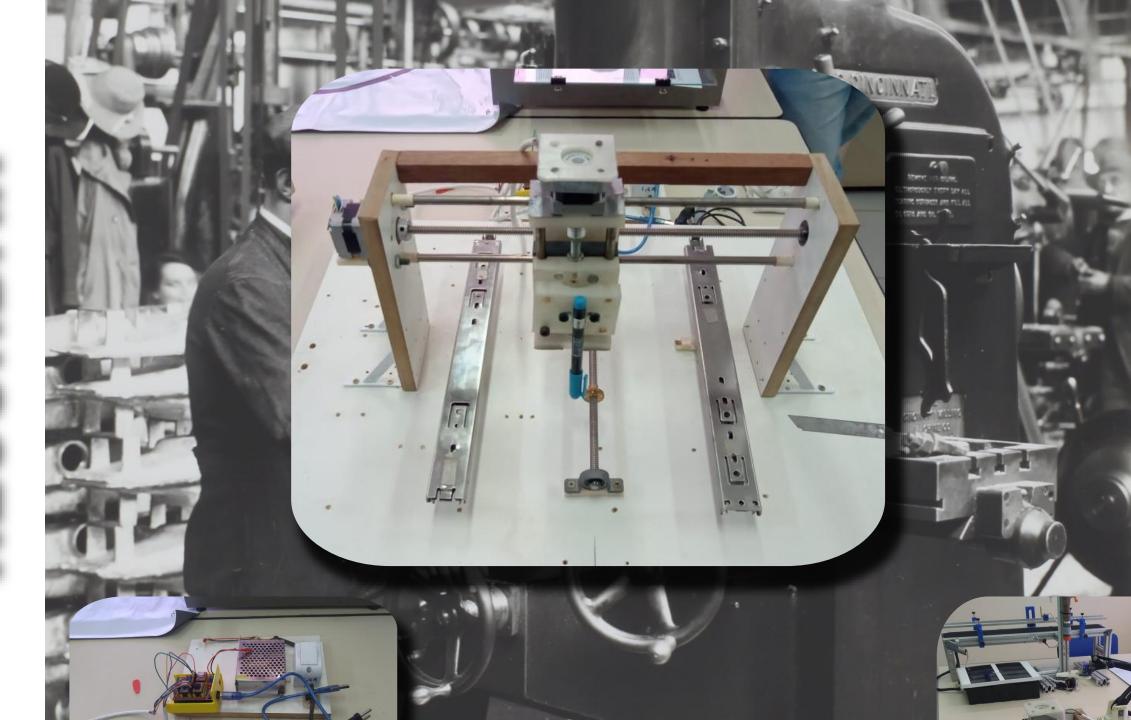


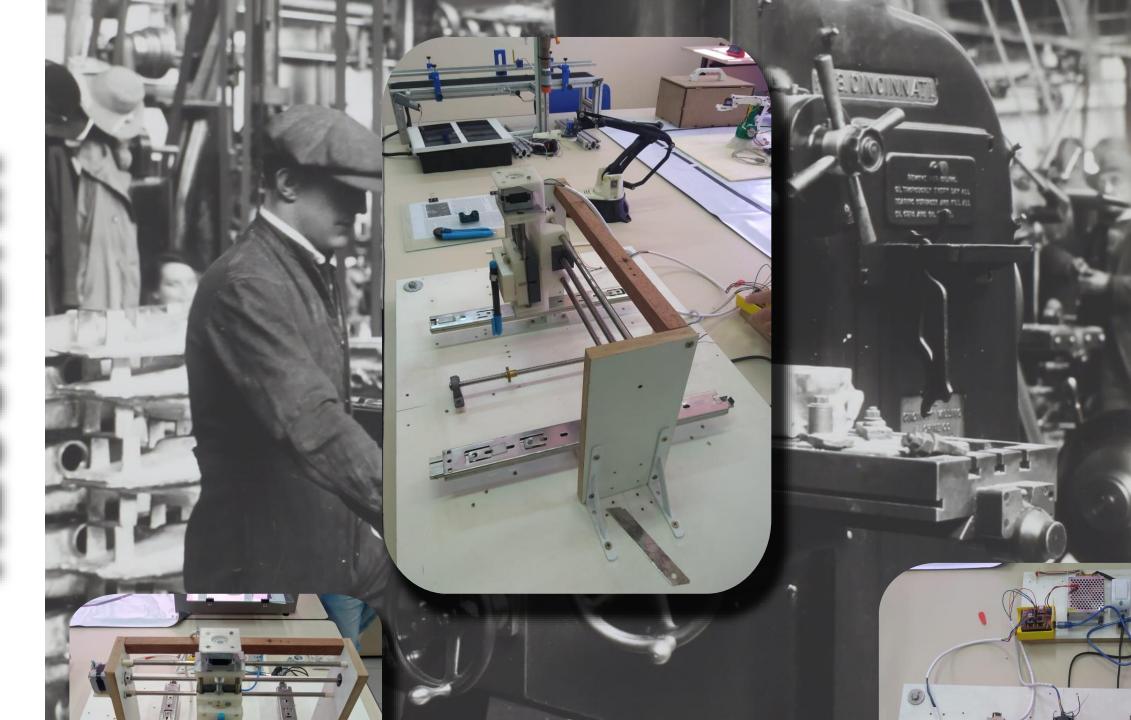


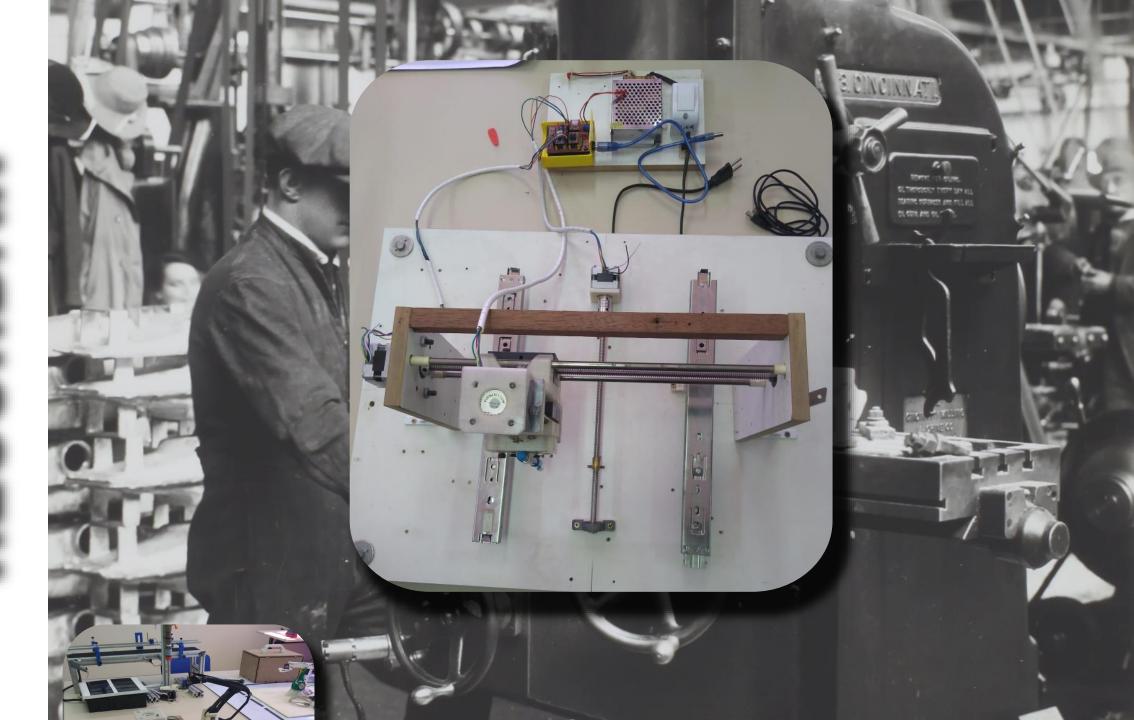
RECORDAN



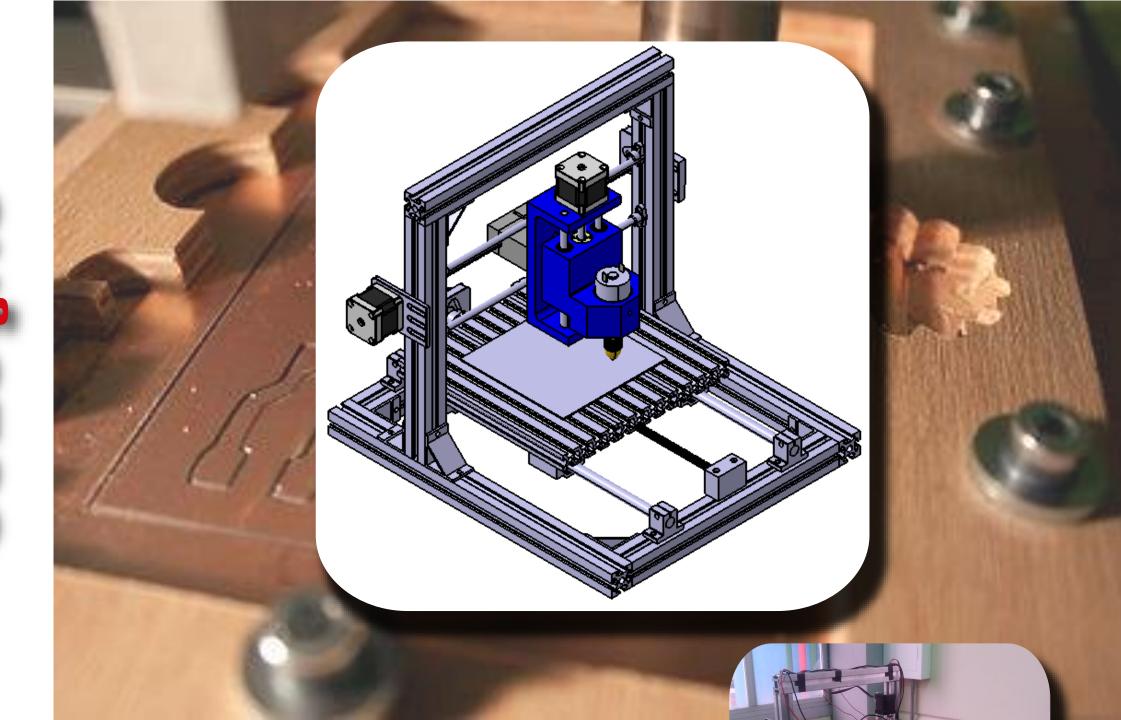


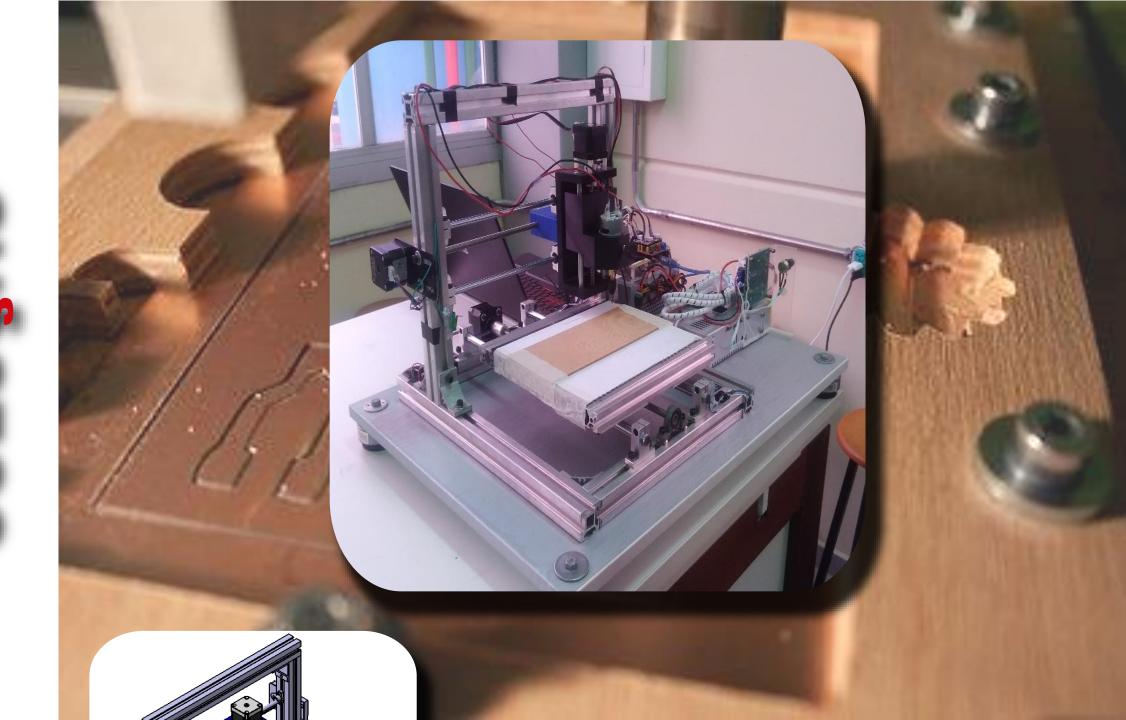






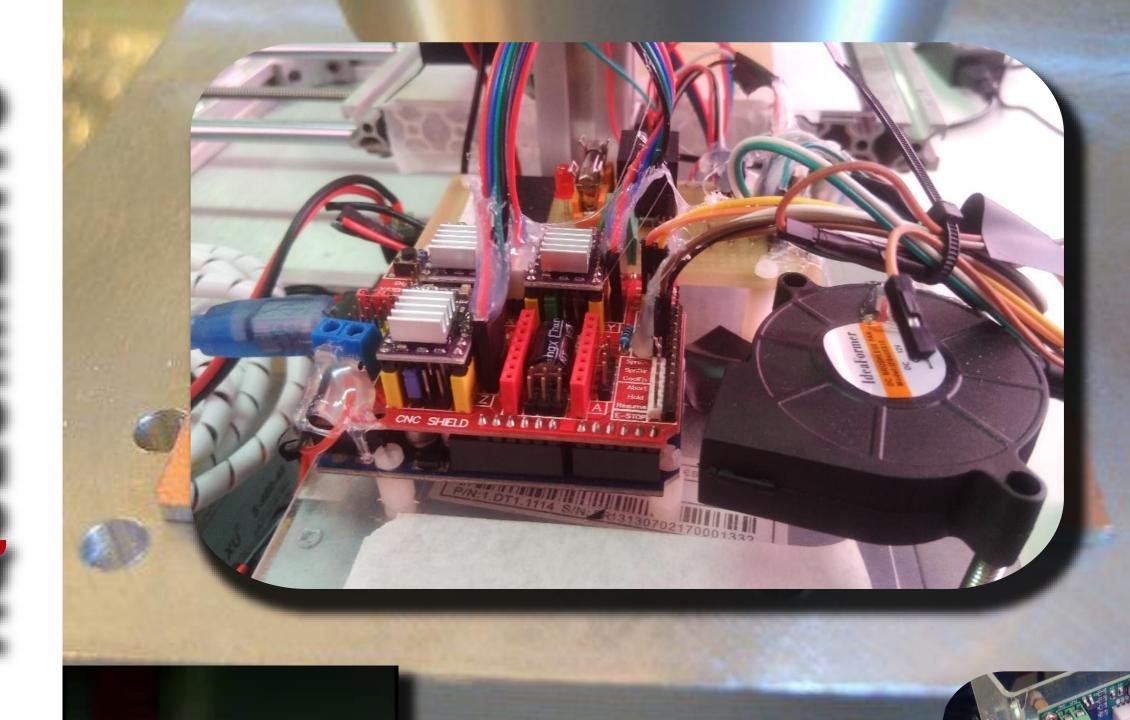
SOLUGAO

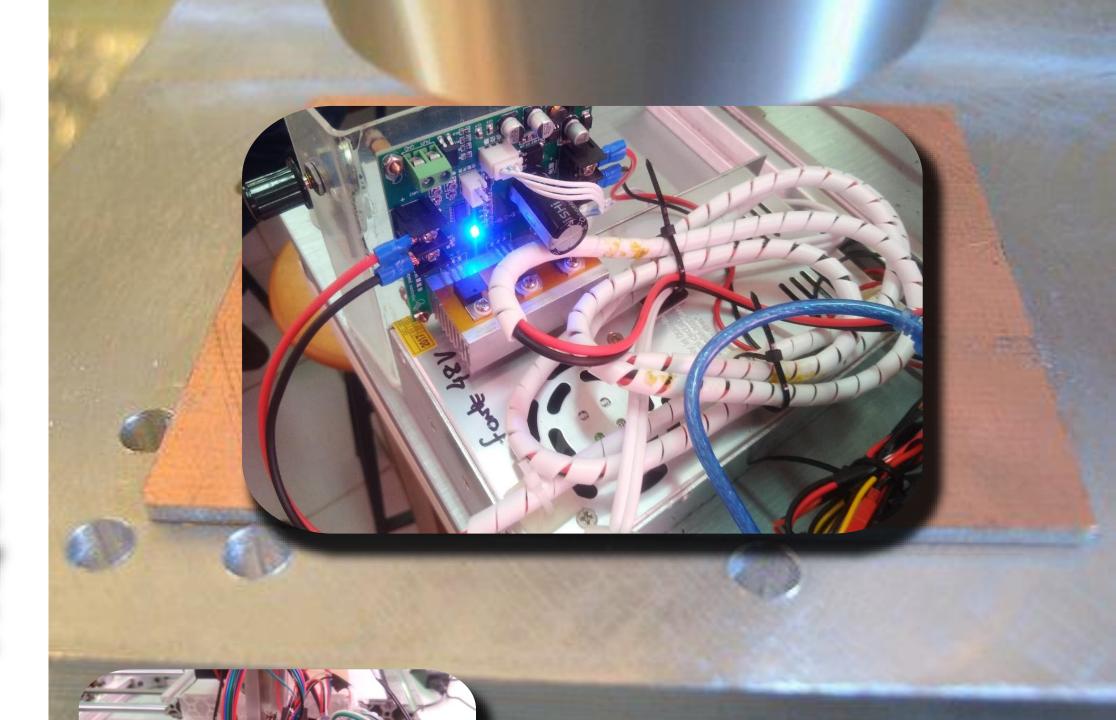




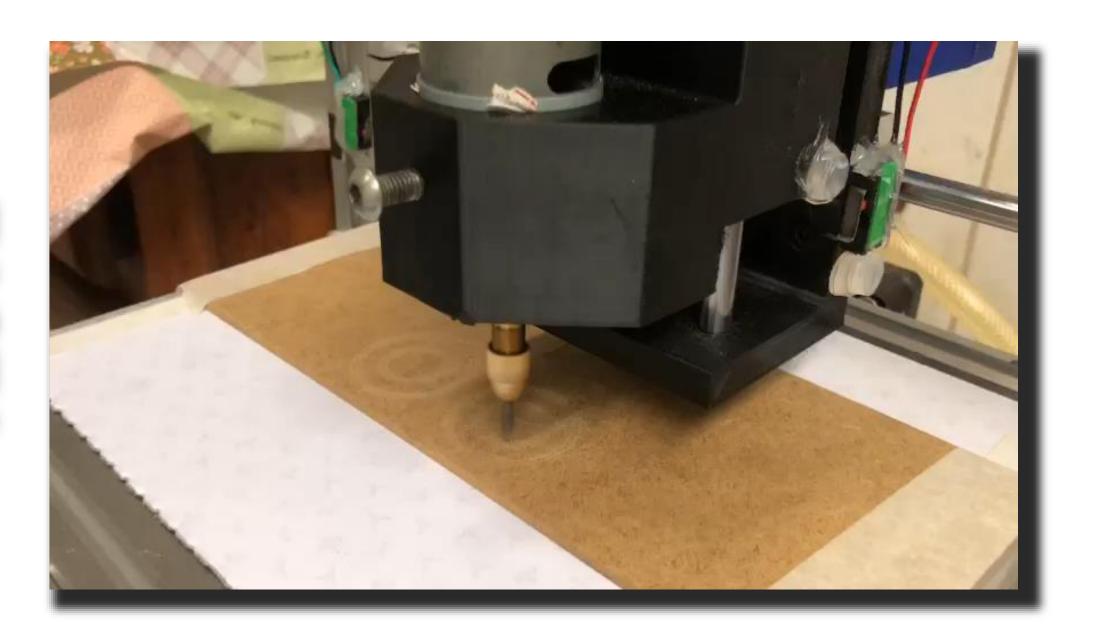
DESAFIOS



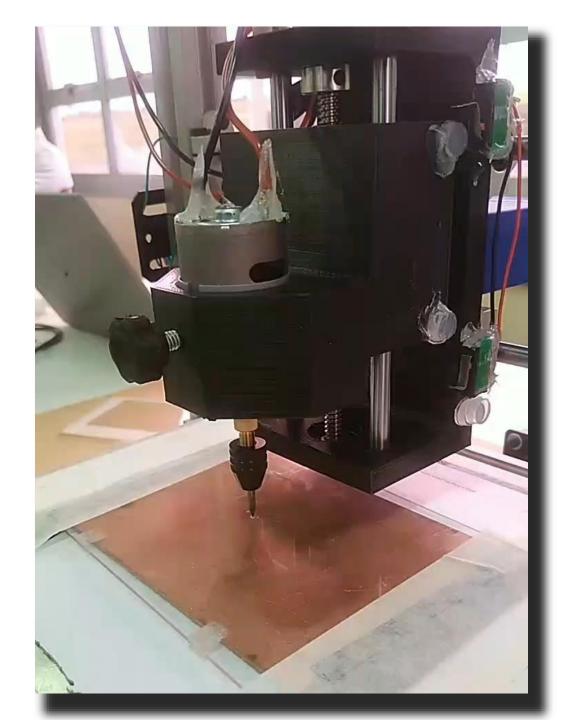


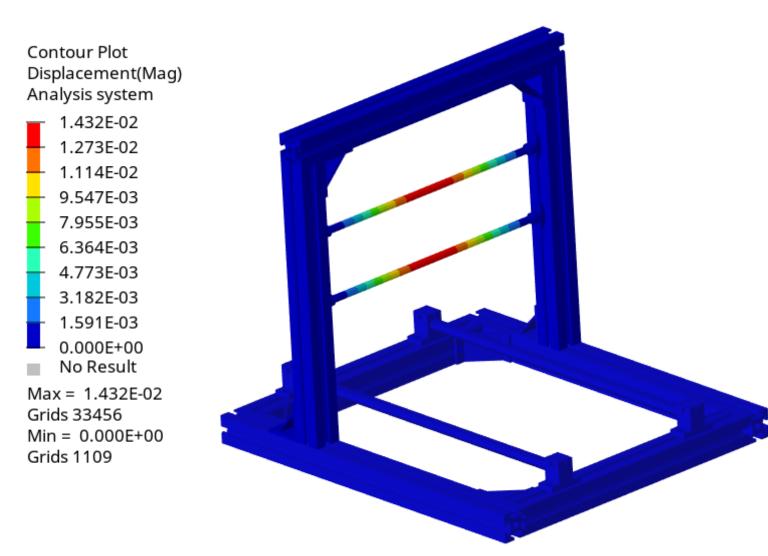


TESTE











GUSTO TOTAL

CUSTO TOTAL

Estrutura de custo

Elétricos

Descrição	Qtde.	Unid.	Valor		Total	
Cnc Shield V3	1	-	R\$	21,00	R\$	21,00
Arduino Uno R3	1	-	R \$	78,50	R\$	78,50
4 Driver A4988	4	-	R\$	9,00	R\$	36,00
Fonte de alimentação 24V a 40V 10	1	-	R\$	74,00	R\$	74,00
Motores Nema 17 - 4kgf	3	-	R\$	72,67	R\$	218,01
Fim de curso	6	-	R\$	2,59	R\$	15,54
Capacitor 100nF	3		R\$	0,13	R\$	0,39
Resistor 4,7K.	3		R\$	0,19	R\$	0,57
Barra de pinos	1		R\$	1,19	R\$	1,19
Terminal 3 vias macho	1		R\$	4,99	R\$	4,99
Conector engate rápido	1		R\$	2,33	R\$	2,99
Conector borne 2 vias	2		R\$	1,50	R\$	3,00
Fio Amarelo	1	m	R\$	1,10	R\$	1,10
Fio Vermelho	1	m	R\$	1,10	R\$	1,10
Fio Azul	1	m	R\$	1,10	R\$	1,10
Fio preto	1	m	R\$	1,10	R\$	1,10

Estrutura de custo							
	Elétricos						
Descrição	Qtde.	Unid.	Va				
Cnc Shield V3	1	-	R\$				
Arduino Uno R3	1	-	R\$				
4 Driver A4988	4	-	R\$				
Fonte de alimentação 24V a 40V 10	1	-	R\$				
Motores Nema 17 - 4kgf	3	-	R\$				
Fim de curso	6	-	R\$				
Capacitor 100nF	3		R\$				
Resistor 4,7K.	3		R\$				
Barra de pinos	1		R\$				
Terminal 3 vias macho	1		R\$				
Conector engate rápido	1		R\$				
Conector borne 2 vias	2		R\$				
Fio Amarelo	1	m	R\$				
Fio Vermelho	1	m	R\$				
Fio Azul	1	m	R\$				
Fio preto	1	m	R\$				

Total

	Estrutural					
Descrição	Qtde.	Unid.	Valor		Total	
Guia Linear 8x300mm	2	-	R\$	24,90	R\$	49,80
Guia Linear 12x400mm	2	-	R\$	62,54	R\$	62,54
Pilow block 8mm	4	-	R\$	16,49	R\$	65,96
Pilow block 12mm	4	-	R\$	29,90	R\$	119,60
Fuso tr8 300mm c/ castanha	1	-	R\$	54,80	R\$	54,80
Fuso tr8 400mm c/ castanha	1	-	R\$	52,50	R\$	52,50
Fuso tr8 150mm c/ castanha	1	-	R\$	33,90	R\$	33,90
Perfil de alumínio 30x30mm 400mm	2	-	R\$	23,96	R\$	47,92
Perfil de alumínio 30x30mm 300mm	5	-	R\$	17,96	R\$	89,80
Perfil de alumínio 20x80mm	1	m	R\$	134,90	R\$	134,90
Cantoneira aluminio	10	-	R\$	4,50	R\$	45,00
Mancal přeixo kp001 12mm	1	-	R\$	24,75	R\$	24,75
Mancal pl guia 12mm	2	-	R\$	16,80	R\$	33,60
Suporte guia 8mm	4	-	R\$	9,90	R\$	39,60
Mancal pł eixo 8mm	1	-	R\$	19,52	R\$	19,52
Suporte motor Nema 17	2	-	R\$	17,44	R\$	34,88
Acoplador Fuso	3	-	R\$	14,16	R\$	42,48
Parafuso M3x16mm	8	-	F:\$	1,10	R\$	8,80
Parafuso M3x12mm	8	-	R\$	1,05	R\$	8,40
Parafuso M4x12mm	20	-	R\$	0,44	R\$	8,80
Parafuso M5x30mm	16	-	R\$	2,90	R\$	46,40
Parafuso M5x20mm	40	-	R\$	1,93	R\$	77,20
Porca martelo M4	20	-	R\$	1,25	R\$	25,00
Porca martelo M5	36	-	R\$	1,44	R\$	51,84
Barra roscada 3/16"	0,680	mm	R\$	3,03	R\$	2,06
Total		-	-		R\$	1.640,63

PRÓXIMOS PASSOS





"Crescimento e conforto não coexistem."

Ginni Rometty