Bill Of Materials for: [Practicum Group 5] [TEAM NAME]
Last modified: [10/31/2022]
PCB version: [PCB VERSION #]
BOM revision: [BOM REVISION #1]   P/NP = Place/Not Place (components marked NP are not stuffed on the board)

Cnt	Part References	P/NP	Mfg	Device	Mfg PN
1	U4		Microchip	ATMEGA328P-PU	ATMEGA328P-PU
1	U$1		Shinano Kensi	Stepper Motor	STP-42D201-37
1	U2		Pololu	A4988_STEPPER_MOTOR_DRIVER_	1182
1	U$4		Parallax	Single Relay Board	27115
2	IC1, IC2		Texas Instrum	LM7805S/NOPB	LM7805S/NOPB
1	U$2		Crystalfontz	16x2 White on Blue Character LCD	CFAH1602B-TMI-JT
1	U$3		Parallax	KEYPAD4X4	27899
1	D2		Würth Elektron	LEDCHIP-LED0805	150080GS75000
1	SW1		C&K	SWITCH-MOMENTARY-2SMD	RS-187R05A2-DS MT RT
1	SW2		C&K	SWITCH-MOMENTARY-2SMD	RS-187R05A2-DS MT RT
1	X1		ECS	CRYSTALSMD-HC49UP	ECS-160-18-5PX-TR
2	R5, R6		Yageo	R-US_R0805	RC0805FR-071KL
2	R1, R7		Yageo	R-US_R0805	RC0805FR-0710KL
3	R2, R3, R4		Yageo	R-US_R0805	RC0805FR-071KL
2	C11, C12		Samsung	C-EUC0805K	CL21B104KBCNNNC
3	C4, C5, C6		Samsung	C-EUC0805K	CL21B104KBCNNNC
1	C1		Samsung	C-EUC0805K	CL21B104KBCNNNC
1	C10		Samsung	C-EUC0805K	CL21B104KBCNNNC
1	C13		Samsung	C-EUC0805K	CL21B104KBCNNNC
1	C7		Samsung	C-EUC0805K	CL21C180JBANNNC
1	C8		Samsung	C-EUC0805K	CL21C300JBANNNC
1	J2		Sullins	PINHD-1X6	PRPC006SAAN-RC

1	J1		Harwin	PINHD-2X3	M20-9980345

VERSION INFO

Description	Dist	Dist Part Number	Cost Ea.	Cost Total
MICROCONTROLLER				
12 Volt 1.8 Step Angle Bipolar Stepper Motor				
Stepper motor controler; IC: A4988; 1A; Uin mot: 8÷35V				
Single Relay Board				
IC REG LINEAR 5V 1.5A				
16x2 White on Blue Character LCD				
16-button Keyd				
LED				
Various NO switches- pushbuttons, reed, etc				
Various NO switches- pushbuttons, reed, etc				
Crystals (Generic)				
RESISTOR, American symbol				
RESISTOR, American symbol				
RESISTOR, American symbol				
CAPACITOR, European symbol				
CAPACITOR, European symbol				
CAPACITOR, European symbol				
CAPACITOR, European symbol				
CAPACITOR, European symbol				
CAPACITOR, European symbol				
CAPACITOR, European symbol				
PIN HEADER				

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