PPMP #: 118-5-751-2021-5-0-2



Republic of the Philippines **VISAYAS STATE UNIVERSITY**

Visca, Baybay City, Leyte

PURCHASE REQUEST

Dept./Office: DABE

PR #: GF-2021-10-01391

Date: 10-21-2021

Section/End-User: Lorbert G. Mazo

Category: Electronics supplies

Funding Source: General Fund - MOOE

Project Title/Code: VSU-IP-2021-4

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	DC & Stepper Motor HAT	set	1	2,000.00		2,000.00

Specification:

- 4 H-Bridges: TB6612 chipset provides 1.2A per bridge with thermal shutdown protection.
- Can run motors on 4.5VDC to 13.5VDC.
- Up to 4 bi-directional DC motors with individual 8-bit speed selection
- Up to 2 stepper motors (unipolar or bipolar) with single coil, double coil, interleaved or micro-stepping.
- Big terminal block connectors to easily hook up wires (18-26AWG) and power
- Polarity protected 2-pin terminal block and jumper to connect external 5-12VDC power
- for Raspberry Pi Mini Kit

Digital Load Cell Sensor Weighing Scale Kit Assembly	set	5	480.00		2,400.00
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Specification:

- HX711 module uses 24 high precision A/D converter chip hx711;
- Sturdy aluminum alloy construction with strain gauges pre-attached with strain relieved wires.
- Accurately measures forces from 0-5kg (0-11 lb). On-chip active low noise PGA with selectable gain of 32, 64 and 128. -
- On-chip power supply regulator for load-cell and ADC analog power supply, on-chip oscillator requiring no external component with optional external crystal.
- Simple digital control and serial interface: pin-driven controls, no programming needed, selectable 10SPS or 80SPS output data rate.

3	Heat Shrink Tube Tubing Sleeve Wrap Wire Cable	set	1	360.00	360.00
	100Pcs/Set 7 Color Polyolefin Material				
	Hex Nut Spacing Screw Male Female Threaded Pillar	set	1	400.00	400.00

- 200Pcs/Set M3
- · for PCB PC Motherboard
- Nickel Plated

	High Torque Bipolar Stepper Motor	set	2	1,200.00	•	2,400.00
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Specification:

Motor Type: Bipolar Stepper

• Step Angle: 1.8 deg.

• Holding Torque: 65Ncm(92oz.in)

• Rated Current/phase: 2.1A

Phase Resistance: 1.6ohms

Inductance: 3mH+/-20%(1KHz)

Number of Leads: 4

6	Male+Female Plug Connector Power Supply Jack Adapter For CCTV Camera	set	1	460.00	460.00
	CCTV Camera				

Specification:

- Female Jack Description: No electrical tap, No splicing, no crimping, but only a small screw driver.
- Male Jack Description: 2.1 x 5.5mm CCTV Camera DC Power Plug Connector. DC Power Plug with plastic construction
 and strain relief. This 2.1 x 5.5mm Power Plug features one power connector end DC plug male to another end terminal for
 CCTV camera connected.

7 Mini voltage regulator set 1 180.00 180.00

Specification:

- High voltage and high current resettable fuse, overcurrent automatic disconnection, power off for cooling for a few seconds fuses automatic recovery
- · Operating voltage: DC3V-35V
- Control power: Maximum 90W
- Quiescent current: 0.01A(Standby)
- PWM duty cycle: 1%-100%
- PWM frequency: 10khz

8 Mux Breakout - 8 Channel	set	2	900.00		1,800.00
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Specification:

- Operating Voltage: 1.65V 5.5V
- Operating Temperature: -40 85° C
- I2C Address: 0x70 (default) up to 0x77
- 10x Qwiic Connectors
 - o 2x Pass Through (Daisy Chain)
 - o 8x Channels

1	0	Parallel Beam Electronic Load Cell	ant		500.00	0.050.00
l	9	Scale Weighting Sensor	set	5	590.00	2,950.00

Specification:

- Limit range: 0-100g
- Theoretical accuracy range: 100g
- Accuracy: 0.020%, 0.010%
- · Comprehensive error: ±0.03%F.S
- Output impedance: 405±6
- Input impedance: 350±6
- Use temperature: 10? to +40?

	 Safety overload range: 120% 				
	• Limit overload range: 150%				
	Non-linearity: 0.02%.S				
	Hysteresis: 0.02% F.S				
	Installation type: parallel installa	tion			
	Sensitivity: 2.0±0.2mv/v				
	Considerty. 2.010.211177				
10	Potentiometer Variable Resistor 25 Turn	set	1	375.00	375.00
	Specification:				
	25pcs/set				
	2K Ohm Trim Pot Trimmer				
	ZIX OIMI TIMIT OF TIMINO				
11	Sauna Heater Stove Heating Element	set	2	3,450.00	6,900.0
	Specification:				of surface
	A Matarial 2004 Stainless Start				
	Material: 304 Stainless Steel Percent 3670M				
	• Power: 2670W				
	• Voltage: 220V/380V				
	Sauna type: Wet or Dry				
10	Soldering Iron Kit set with		4	4 200 00	4 200 0
12	Soldering Iron Kit set with carrying bag	set	1	1,200.00	1,200.0
12	Specification: • Work Voltage: 220V	set	1	1,200.00	1,200.0
12	carrying bag Specification: Work Voltage: 220V Power: 60W Temp Rang: 200? - 450? Tweezers: ESD-15, Length 4.7ii Soldering Iron Stand: Steel Tips Model: 5 pcs, 900M series Desoldering Pump: Plastic and a Carrying bag: Fabric	nches	alloy		1,200.0
12	carrying bag Specification: Work Voltage: 220V Power: 60W Temp Rang: 200? - 450? Tweezers: ESD-15, Length 4.7ii Soldering Iron Stand: Steel Tips Model: 5 pcs, 900M series Desoldering Pump: Plastic and	nches	alloy		1,200.00
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	carrying bag Specification: Work Voltage: 220V Power: 60W Temp Rang: 200? - 450? Tweezers: ESD-15, Length 4.7ii Soldering Iron Stand: Steel Tips Model: 5 pcs, 900M series Desoldering Pump: Plastic and Carrying bag: Fabric The working temperature is con Solid State Relays Specification: Input Voltage: 3-32V DC Output Voltage: 24-380V AC Rated Load Current: 40A	nches aluminum tinuously a	alloy adjustable betw	veen 200~450?.	
	carrying bag Specification: Work Voltage: 220V Power: 60W Temp Rang: 200? - 450 ? Tweezers: ESD-15, Length 4.7ii Soldering Iron Stand: Steel Tips Model: 5 pcs, 900M series Desoldering Pump: Plastic and Carrying bag: Fabric The working temperature is con Solid State Relays Specification: Input Voltage: 3-32V DC Output Voltage: 24-380V AC Rated Load Current: 40A Input Voltage: 3-32V DC	nches aluminum tinuously a	alloy adjustable betw	veen 200~450?.	
	carrying bag Specification: Work Voltage: 220V Power: 60W Temp Rang: 200? - 450? Tweezers: ESD-15, Length 4.7ii Soldering Iron Stand: Steel Tips Model: 5 pcs, 900M series Desoldering Pump: Plastic and Carrying bag: Fabric The working temperature is con Solid State Relays Specification: Input Voltage: 3-32V DC Output Voltage: 24-380V AC Rated Load Current: 40A Input Voltage: 3-32V DC Output Voltage: 24-380V AC	nches aluminum tinuously a	alloy adjustable betw	veen 200~450?.	
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Silicone Wire Rubber Insulated Electrical Wire Hook-up Wire										
15 Wire Co	nnector	set	1 -		1,935.00		1,935.00			
	t ion: 5 PCS/set fini Quick Connector Universal (Compact	Terminal Blo	ock Plug-i	n Electrical Wire					
	TOTAL					26,660.00				
Purpose: for	research									
Checked by:	MICHAEL ANTHONY JAY	F	Funds Available:	A W. FLORES						
	TWG - Electronics sup	plies			HEAD, BUDGET OFFICE					
Signature: Printed Name:		Note		-	SLIE S. TAN TIGHE	Approved by:	100			
Designation:	END USER	O.IECT FADER	PRESIDEN	T VSII						