

Course/Capstone/eProject/FURI Purchase Request

Date	10/18/2022							
Name of Class or Project:	EGR 314							
Vendor (one vendor per form):	DigiKey							
Faculty/PI Contact	Dr. Aukes							
Name	Wyatte Ricks							
Email	wmricks@gmail.com							
eProject?	No							
Capstone Project?	No							
Course Project?	Yes							
eProject Industry Sponsor (if applicable)	N/A							
A purchasing card is available to check out for local purchases or you may come to Sutton 101 and order your supplies, using this purchasing card.								
General Description of Item	Item # or Quote #	Direct Website Link to Product	Purpose/Benefit for	Qty	Unit Price	Line Total	DataSheet	Person
I2C Motor Driver	DRV8830DGQR	Link	Motor Controller	3	\$2.410	\$7.23	DataSheet	Wyatte
Resistor .4 Ohm	MFLA0805R4000FA	Link	Pull Down Resistor for ISENSE Pin on Motor Controller	4	\$0.410	\$1.64	DataSheet	Wyatte
Resistor 2.87K	PTN0805E2501B8T1	Link	Pull Up Resistor	4	\$0.770	\$3.08	DataSheet	Wyatte
Fan	OD4010-05HB	Link	Act as actuator for	2	\$12.360	\$24.72	DataSheet	Wyatte
Servo Motor	2201	Link	For turning switch	2	\$5.950	\$11.90	DataSheet	Wyatte
Headers	68016-204HLF	Link	Through hole pin	20	\$0.360	\$7.20	DataSheet	Wyatte
Temperature Sensor	TC74A4-3.3VCTTR	Link	Sensor that mea	4	\$1.090	\$4.36	DataSheet	Carlos
Surface Mount Resistor 2k	YAG1322CT-ND - Cut Tape (CT)	Link	EGR314 Subsys	8	\$0.10	\$0.80	DataSheet	Carlos
Surface Mount Bypass Ceramic Capacitors 1uF	1276-1180-1-ND - Cut Tape (CT)	Link	EGR314 Subsys	20	\$0.10	\$2.00	DataSheet	Carlos
Surface Mount 10uF Ceramic Capacitors	490-10513-1-ND - Cut Tape (CT)	Link	EGR314 Subsys	8	\$0.26	\$2.08	DataSheet	Carlos
Surface Mount 10k Resistors	13-SR0805JR-0710KLCT-ND - Cut Tape (CT)	Link	EGR314 Subsys	8	\$0.25	\$2.00	DataSheet	Carlos
Surface Mount 220 Ohm Resistors	311-220CRCT-ND - Cut Tape (CT)	Link	EGR314 Subsys	8	\$0.10	\$0.80	DataSheet	Carlos
Surface Mount Red LED	3147-B1701USD-20D000114U1930CT-ND	Link	Debugging purpo	22	\$0.09	\$2.00	DataSheet	Carlos
Surface Mount Push Buttons	EG5354CT-ND	Link	Debugging purpo	30	\$0.29	\$8.70	DataSheet	Carlos
Surface Mount Barrel Jack	CP-006APJTR-ND	Link	Power Board with	4	\$1.050	\$4.20	DataSheet	Carlos
Microcontroller	PIC24FJ64GA702-I/SO-ND	Link	Microcontroller for	6	\$1.90	\$11.40	DataSheet	Carlos
6.2pF Cap	478-10412-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.24	\$0.72		Lukas
10uF Cap	1276-1096-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	6	\$0.10	\$0.60		Lukas
4.7uF Cap	1276-1244-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.10	\$0.30		Lukas
100uF Cap	3222-SVF1EM101E09E00REX24CT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.31	\$0.93		Lukas
Blue LED	160-1645-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.32	\$0.96		Lukas
Diode	1N4148WTPMSCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	9	\$0.10	\$0.90		Lukas
Micro USB Connector	609-5379-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	4	\$0.43	\$1.72		Lukas
Inductor	553-3290-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.64	\$1.92		Lukas

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Transistor	4518-S8050CT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	6	\$0.22	\$1.32		Lukas
249k Resistor	2019-RK73H2ATTD2493FCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.10	\$0.30		Lukas
54.9k Resistor	2019-RK73H2ATTD5492FCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.10	\$0.30		Lukas
180 ohm resistor	RNCP0805FTD180RCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.10	\$0.30		Lukas
130 ohm resistor	2019-RK73H2ATTD1300FCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	12	\$0.10	\$1.20		Lukas
1k resistor	RNCP0805FTD1K00CT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	15	\$0.10	\$1.50		Lukas
10k resistor	RNCP0805FTD10K0CT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	45	\$0.07	\$3.15		Lukas
470 ohm resistor	2019-RK73H2ATTD4700FCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.10	\$0.30		Lukas
4.7k resistor	2019-RK73B2ATTD472JCT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	12	\$0.10	\$1.20		Lukas
Power regulator	1028-1493-1-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$0.42	\$1.26		Lukas
WiFi module	1965-ESP32-WROOM-32E-H4CT-ND	https://www.digikey.com/en/products/c	EGR314 Subsys	3	\$3.15	\$9.45		Lukas
Humidity Sensor HIH6030-021-001	480-5704-1-ND - Cut Tape (CT)	Link	EGR314 Subsys	4	\$13.98	\$55.92	Link	Miguel
2.2kOhm Resistor	13-AC0805FR-102K2LCT-ND - Cut Tape (CT)	Link	EGR314 Subsys	5	\$0.10	\$0.50	Link	Miguel
0.22uF Capacitor	311-1887-1-ND - Cut Tape (CT)	Link	EGR314 Subsys	4	\$0.16	\$0.64	Link	Miguel
LED	2460-L171L-GCTR-ND - Tape & Reel (TR)	Link	EGR314 Subsys	10	\$0.23	\$2.30	Link	Miguel
Barrel Jack	CP-006APJCT-ND - Cut Tape (CT)	Link	EGR314 Subsys	4	\$1.05	\$4.20	Link	Miguel
						\$ -		
						\$ -		
						\$ -		
					Sub-Total	\$ 186.00		
					Tax			
					Shipping			
					Grand Total	\$ 186.00		
Chair or PI Approval:								
Date:								
Business Purpose/Public Benefit: (Click on yellow line. Next, select an option on the drop-down arrow on the right of the box)								
Project Supplies								
#N/A								

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<p style="text-align: center;">Notes:</p> <p style="text-align: center;">Student: Forward completed form to Instructor/Project Mentor for approval</p> <p style="text-align: center;">Mentor/Faculty: Forward form with email indicating your approval to PolyBizz@asu.edu for processing</p> <p style="text-align: center;">1. A purchasing card is available to check out for local purchases.</p> <p style="text-align: center;">2. You may come to Sutton 101 and place your order online.</p>								
THE SECTION BELOW IS FOR OFFICE USE ONLY								
BUSINESS OFFICE NOTIFIED BY / DATE:								
ORDER PLACED BY / DATE:								
ORDER RECEIVED BY / DATE:								
STUDENT / INSTRUCTOR NOTIFIED BY / DATE:								
COST CENTER + PROGRAM / GIFT TO CHARGE:								