

## Course/Capstone/eProject/FURI Purchase Request

Name of Class or Project: EGR 314 (Individual Sensor Subsystem)

Vendor (one vendor per form): Digi-key

<b>Date</b> /26/25	Nichols / Aukes		Name & Email ddiaz69@asu.edu	eProject? Yes / No	Capstone Projec	t? Course Project?  Yes / No	eProject Industry Sponsor (if applicable)	$\neg$	
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2	ESP32-S3-WROOM-1-N4	https://www.	digikey.com/en/prod	ducts/detail/espressif-sy	stems/ESP32	Microcontroller	Required for main processing & communication	\$	5.
2	OPT4060DTSR	https://www.	digikey.lv/en/produc	cts/detail/texas-instrume	ents/OPT4060 Color	Sensor	Detects RGBW colors for sensor-based decisions	\$	2.8
2	LM2575D2T-3.3R4G	https://www.	digikey.com/en/prod	ducts/detail/onsemi/LM2	2 <mark>575D2T-3-3F</mark> Voltag	e Regulator	Converts 12V to 3.3V for stable power	\$	3.
3	SRR1260-331K	https://www.	digikey.com/en/prod	ducts/detail/bourns-inc/S	SRR1260-331 330μΗ	Inductor	Supports power regulation and noise filtering	\$	0
3	MF-MSMF150/12	https://www.	digikey.com/en/prod	ducts/detail/bourns-inc/N	MF-MSMF150 PTC R	esettable Fuse	Protects circuit from overcurrent damage	\$	0.
3	SS14	https://www.	digikey.com/en/prod	ducts/detail/onsemi/SS1	4/965729?gC Schott	xy Diode	Prevents reverse voltage damage	\$	0.
4	EEH-ZA1E101XP	https://www.	digikey.com/en/prod	ducts/detail/panasonic-e	<mark>electronic-com</mark> 100μF	Capacitor	Stabilizes power supply voltages	\$	1.
4	C5750X5R1A686M230KA	https://www.	digikey.com/en/prod	ducts/detail/tdk-corporat	i <mark>on/C5750X5</mark> 68μF (	Capacitor	Filters voltage fluctuations	\$	2.
4	CL10B104KB8NNNC	https://www.	digikey.com/en/prod	ducts/detail/samsung-ele	<mark>ectro-mechan</mark> 0.1μF	Capacitor	Reduces high-frequency noise	\$	0.
6	CRCW060310K0FKEA	https://www.	digikey.com/en/prod	ducts/detail/vishay-dale/	CRCW06031 10kΩ	Resistor	Pull-up/pull-down for circuits	\$	0
6	ERA-3AEB331V	https://www.	digikey.com/en/prod	ducts/detail/panasonic-e	electronic-com 330Ω	Resistor	Current limiting for LEDs	\$	0
6	CRGCQ0805F220R	https://www.	digikey.com/en/prod	ducts/detail/te-connectiv	rity-passive-pr 220Ω	Resistor	Load balancing for circuits	\$	0
2	640456-3	https://www.	digikey.com/en/prod	ducts/detail/te-connectiv	vity-amp-conn 3-Pin l	Header (Through Hole)	Connects peripherals to PCB	\$	0
2	ESB-33535A	https://www.	digikey.com/en/prod	ducts/detail/panasonic-e	electronic-com Push I	button Switch	User input for reset or control	\$	1
2	USB3131-30-0230-A	https://www.	digikey.com/en/prod	ducts/detail/gct/USB313	1-30-0230-A/ USB N	licro-B Connector	Enables USB connectivity	\$	0
2	PJ-002BH-SMT-TR	https://www.	digikey.com/en/prod	ducts/detail/same-sky-fo	ormerly-cui-de Barrel	Jack Connector	Power input from adapter	\$	1
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COST CENTER + PROGRAM/GIFT TO CHARGE:

ORDER RECEIVED BY / DATE:

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## Line Total

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\$	-
\$	10.12
\$	5.70
\$	6.64
\$	1.92
\$	0.60
\$	0.87
\$	5.70
\$	11.28
\$	0.32
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