ECE477 Bill of Materials v1.0

Year: 2023 Semester: Fall

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Description	ID	Qty	Value	Package
SP32 MCU w/ Integrated WIFI + Bluetooth	U1	1	-	Tray
lpha MF02A-N-221-A01 FSR	-	2	9.8N max	Off PCB
MG8833 Thermal Camera	-	1	-	Off PCB
LK-LD2140 Human Presence Sensor	-	1	-	Off PCB
.7V Li-ion Battery	-	2	3.7V	Off PCB
SL91127IR Buck-Boost Regulator	U2	1	3.3Vout	QFN-20
1CP16411 Low IQ Boost Converter with Auto Bypass	U3	1	5Vout	MSOP-10

			Qty: 1
Manufacturer	Mfg. Part #	Supplier	Supplier Part #
Espressif Systems	ESP32-WROOM-32UE-H4	Mouser	356-ESP32WRM32UE32US
Alpha	MF02A-N-221-A01	Adafruit	1075
Panasonic	AMG8833	Adafruit	3538
Hi-Link	HLK-LD2140	Amazon	B0BXDL5KHQ
EBL	-	Amazon	B0874R85J2
Renesas Electronics	ISL91127IR	Mouser	968-ISL91127IRNZ-T
Microchip Technology	MCP16411-I/UN	Mouser	579-MCP16411-I/UN
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