ECE477 Bill of Materials v1.0

Year: 2019   **Semester: Spring**   **Project Name: Guard DAWG System**

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Door Control Unit								Qty:	1
Description	**ID**	**Qty**	**Value**	**Package**	**Manufacturer**	**Manufacturer Part #**	**Supplier**	**Supplier Part #**	
Microcontroller MSP432 Dev Board		1	$20.76	N/A	Texas Instruments	MSP-EXP432P401R	Digi-Key	296-39653-ND	
Microcontroller MSP432		2	$7.95	100-LQFP	Texas Instruments	MSP432P401RIPZR	Digi-Key	296-44715-1-ND	
Microcontroller MSP430		2	$7.45	80-LQFP	Texas Instruments	MSP430F5529IPNR	Digi-Key	296-27306-1-ND	
Bluetooth Module		2	$6.95	-	LearningTech	CSR BC417	Amazon	N/A	
Raspberry Pi 3 b+		1	$31.00	Standalone	Raspberry Pi Foundation	Model B+	Amazon		
Keypad Button Matrix		1	$3.95	Standalone	Adafruit	1824	Adafruit	1824	
Pi Camera		2	$23.90	Standalone	Adafruit	3099	Adafruit	3099	
Decoupling Capacitors (0805) x 100			$2.30	0805	Murata	80-C0805C104Z3V	KEMET		
Wood (2x4)		4	$30.00	2''x4''	Weathershield		Home Depot	020208MCAXE1	
Plywood Sheet		1	$20.00	50''x100''	PureBond		Home Depot	263012	
Hinge		2	$8.00		Everbilt		Home Depot	13591	
Handle		1			Liberty Hardware		Home Depot	P18949C-SN-C	
Screws		50	$5.00		Everbilt		Home Depot	802002	
Button		2	$4.50		E-Switch	RP3502ARED	Digi-Key/Mouser	EG1930-ND	
Switch		2	$2.99		C&K	JS202011JCQN		CKN10723TR-ND	
Hall Effect Sensor		6	$0.50						
Hall Effect Magnets		6	$2.00		DIYMAG	HLMAG03	Amazon	N/A	
Door Motor		1			Micro DC Motor	FBA_TRS-775W	Amazon	N/A	
<mark>Power MOSFETs</mark>		6	$10.75	D2PAK	Texas Instruments	CSD18510KTT	Texas Instruments	CSD18510KTT	
<mark>Linear Voltage Regulator</mark>		2		SOIC | 8 SON | 8	Texas Instruments	LP2951	Texas Instruments	LP2951	
Wall Converter		1			CanaKit	FBA_DCAR-RSP-1A	Amazon	N/A	
10k Resistors (0805)		100	$1.80	0805	Murata	RN731JTTD1022A10	Digi-Key/Mouser	660-RN731JTTD1022A10	