ECE477 Bill of Materials v1.0								
ear: 2017	Sen	ester: Fall		Project Name: Super Su	isan			
hor: Clifton Somers								
eated: 9/15								
ast Modified: 9/15								
oject_Component							Qty:	Link
Description	ID Qty	Value	Package	Manufacturer	Mfg. Part #	Supplier	Supplier Part #	
D Pixel Display	1		Standalone	Newhaven	NHD-12232KZ	- DigiKey	NHD-12232KZ-NSW-B	https://www.digikey.com/pr
pper Motor	1		Standalone	Adafruit	324	DigiKey	1528-1062-ND	https://www.digikey.com/pr
IFC Reader	2		QFN	NXP	PN5120A0HN:	1 DigiKey	568-8611-ND	https://www.digikey.com/pr
Rotary Dial	1		Through-Hole	TE Connectivity	2-1825910-7	DigiKey	450-1642-ND	https://www.digikey.com/pr
oad Cell & HX711 Amplifier	2		Standalone	Aubreey Electronics	AREEY470	Amazon: Aubreey Elec	AREEY470	https://www.amazon.com/d
Hall Effect Sensors	24		3-SIP	Diodes Incorporated	AH1806-P-B	DigiKey	AH1806-P-BDI-ND	https://www.digikey.com/sc
WiFi Module	1		30-DI Breakout	Expressif	ESP 8266	Amazon: Kumanstore	-	https://nurdspace.nl/images
GB LED	2		6-SMD	Cree Inc	CLX6F-FKC-CN	DigiKey	CLX6F-FKC-CNP1ST1E	1 https://www.digikey.com/sc
actile Switch	10		Through-Hole	TE Connectivity Alcoswi	2-1825910-7	DigiKey	450-1642-ND	https://www.digikey.com/sc
totary Encoder	1		Through-Hole	TT Electronics/BI	EN11-HSM1BF		987-1398-ND	https://www.digikey.com/sc
-Channel MOSFET	20		SC-70	Diode Electronics	DMG1012UW		DMG1012UW-7DICT-	https://www.digikey.com/sc
Cross Connector	4		Standalone	TE Connectivity AMP Co		DigiKey	10-ND	https://www.digikey.com/sc
IC-DC Convertor	2	.1A, -5V		Texas Instruments	LMC7660IMX/			https://www.digikey.com/sc
GB LED	4		4-PLCC	Cree Inc	CLVBA-FKA-CA		CLVBA-FKA-CAEDH8B	https://www.digikey.com/sc
GB LED	2		4-PLCC	Kingbright	AAA3528LSEE		754-1967-1-ND	https://www.digikev.com/sc
nterconnector (F->M) 20 pin	1		Through-Hole	Amphenol FCI	20021311-000		609-3759-ND	https://www.digikey.com/sc
Barrel Jack Power Connector	10		Through-Hole	CUI Inc	PJ-037A	DigiKey	CP-037A-ND	https://www.digikey.com/sc
igital Potentiometer	2	10k	8-SOIC	Microchip Technology	MCP4131-103		MCP4131-103E/SN-N	https://www.digikey.com/sc
erial to Parallel SR, 8b	2		16-TSSOP	Texas Instruments	74AHCT595	DigiKey	74AHCT595T16-13DIC	https://www.diodes.com/ass
H-Bridge Motor Controller	1		16-DIP	Texas Instruments	L293D	Instrument Room	L293D	http://www.ti.com/lit/ds/syr
Resistor Array	3	100k	1608	Bourns Inc	CAT25-104JAL			http://www.bourns.com/doc
Resistor	4	90	0805	Yageo		Instrument Room	-	http://www.yageo.com/docu
Resistor	2	150	0805	Yageo		Instrument Room	-	http://www.vageo.com/docu
Capacitors, Decoupling	20	100n	0805	AVX Corporation		Instrument Room	-	http://datasheets.avx.com/X
Capacitors, Polarized Charging	4	10u	2-SIP, radial	Kemet		Instrument Room	-	https://search.kemet.com/co
Interconnector (F->M) 40 pin	2	100	Through-Hole	On Shore Technology In		DigiKey	ED10529-ND	http://www.on-shore.com/w
Interconnector (F->M) 24 pin	3		Through-Hole	On Shore Technology In		DigiKey	ED10525-ND	http://www.on-shore.com/w
Level Translator	2	1	24-TSSOP	Nexperia USA Inc	74LVC4245AP		1727-4308-1-ND	https://assets.nexperia.com/
DC-DC Convertor	1	1.5A. 5V		Murata Power Solutions			811-2196-5-ND	http://power.murata.com/da
Low Dropout Regulator	1	1.50, 50	TO-261-4	Diodes Incorporated	AP2114H-3.3T	1 0 -7		https://www.diodes.com/ass