				Total : $160.85					

Name/Subsystem	Part Name/Description	Unit Quantity	Unit Cost	Total Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #
Amy/ PIC	Microcontroller	8	$1.76	$14.08	Microchip	PIC24FJ64GA702-I/SO	Link	PIC24	Digikey	PIC24FJ64GA702-I/SO-ND
	0.1uF 50V ceramic capacitor (surface mount/ 0603 package)	20	$0.10	$2.00	Samsung	CL10B104KB8NNNC	Link	Link	Digikey	1276-1000-2-ND
	10 uF 16V ceramic capacitor (surface mount/ 0805 package)	3	$0.10	$0.30	Samsung	CL21A106KOQNNNE	Link	Link	Digikey	1276-1096-2-ND
	10kohm resistor	5	$0.10	$0.50	Yaego	RC1206FR-0710KL	Link	Link	Digikey	311-10.0KFRCT-ND
	300ohm resistor 5% 1W (surface mount/ 2512 package)	3	$0.21	$0.63	Stackpole	RMCF2512JT300R	Link	Link	Digikey	RMCF2512JT300RTR-ND
	Pushbutton	5	$0.23	$1.15	E-Switch	TL3305BF260QG	link	link	Digikey	TL3305BF260QG
	Female micro USB connector	5	$0.63	$3.15	Amphenol ICC (FCI)	10118192-0002LF	Link	Link	Digikey	609-5379-2-ND
Amy/ Voltage Regulato	3.3 V Power Regulator	3	$4.32	$12.96	Microchip	MIC4575WU	Link	Link	Digikey	576-1217-ND
	22 uF Capacitor 35V (0805 package)	3	$0.88	$2.64	TDK Corporation	C2012X5R1V226M125AC	Link	Link	Digikey	445-14428-2-ND
	68 uH Inductor (0805 package)	3	$0.20	$0.60	Taiyo Yuden	CB2012T680K	Link	Link	Digikey	587-2461-2-ND
	Schottky Diode 30V	3	$0.44	$1.32	Diodes Inc.	SDM100K30L-7	Link	Link	Digikey	SDM100K30LDICT-ND
	1.5 kohm Resistor (0805 package)	5	$0.10	$0.50	Stackpole	RNCP0805FTD1K50	Link	Link	Digikey	RNCP0805FTD1K50CT-ND
	2.49 kohm Resistor (0805 package)	5	$0.10	$0.50	Stackpole	RNCP0805FTD2K49	Link	Link	Digikey	RNCP0805FTD2K49CT-ND
	3300 pF Capacitor	3	$0.10	$0.30	Kyocera AVX	KGM15AR71H332KM	Link	Link	Digikey	478-KGM15AR71H332KMCT-ND
	330 uF Capacitor	3	$1.76	$5.28	Kyocera AVX	TPSE337M006R0100	Link	Link	Digikey	478-1804-1-ND
	3.3V Zener Diode	3	$0.12	$0.36	Micro Commercial Co	MMSZ4684-TP	Link	Link	Digikey	MMSZ4684-TPMSCT-ND
	Fuse Holder	3	$0.69	$2.07	Keystone Electronics	4628	Link	Link	Digikey	36-4628-ND
Amy/ Power Supply	6V Power Supply	1	$10.35	$10.35	CUI Inc.	SMI6B-6-4-P5	Link	Link	Digikey	993-1360-ND
Universal	Header Pins (Peralta)	6	0	$0.00			Link	Link		
	Through hole debugging LEDs (inventory in provided kits)	10	0	$0.00			Link	Link		
	220 ohms Current limiting resistors (surface mount) pack of 100	1	$0.30	$0.30	Walsin Tech Co	WR06X221 JTL	Link	Link	Digikey	1292-WR06X221JTLCT-ND
	LED White (10 per pack)	2	$3.28	$6.56	Visual Communications Co	LSM0805543V	Link	Link	Digikey	28-LSM0805543VCT-ND
Sivanee/IR sensor	Op-Amp	5	$0.37	$1.85	Texas Instruments	LM358DGKR	Link	Link	Digikey	LM358DGKR
	IR transmittor	2	$0.45	$0.90	SunLED	XRNI30W-1	Link	Link	Digikey	1497-1036-ND
	IR emitter	2	$0.51	$1.02	SunLED	XTHI12BF	Link	Link	Digikey	1497-1058-ND
	100ohm resistor	4	$0.10	$0.40	Yaego	RC0805FR-07100RL	Link	Link	Digikey	311-100CRCT-ND
	220ohm resistor	4	$0.10	$0.40	Yaego	RC1206FR-07220KL	Link	Link	Digikey	311-220KFRCT-ND
10kohm resistor		4	$0.10	$0.40	Yaego	RC1206FR-0710KL	Link	Link	Digikey	311-10.0KFRCT-ND
	IR sensor	6	$3.39	$20.34	ams-OSRAM USA INC.	TMD26721	Link	Link	Digikey	TMD26721CT-ND
	IR receiver holder	5	$0.90	$4.50	Vishay semiconductor	TSSP-HA	Link	Link	DigiKey	751-TSSP-HA-ND
Samuel/Motor	Motor	3	$5.20	$15.60	Seeed Technology motor	JGA25-371	Link	Link	Digikey	1597-114090046-ND
	220ohm resistor	4	$0.10	$0.40	Yaego	RC1206FR-07220KL	Link	Link	Digikey	311-220KFRCT-ND
	Motor Driver	2	$1.73	$3.45	Texas Instrument	DRV8830	Link	Link	Texas Instrumen	DRV8830DGQR
Jaden/Temp	CTC74A4-3.3VCTTR	5	$1.15	$5.75	Digikey	CTC74A4-3.3VCTTR	Link	Link	Digikey	TC74A4-3.3VCTTR
Houyu/Humidity	Humidity sensor	3	$13.43	$40.29	Digikey	HIH6030-021-001	Link	Link	Digikey	480-5704-2-ND
				$0.00						