

Purchases - Organized by Purchase Order / Date Ordered

Purchase Order	Subsystem / Budget Category	Vendor	Vendor PN	Description	Unit Price	Quantity	Total Price	Date Ordered	Date Received	Shipping Time	Notes
1	TSV	Digikey	AT90CAN128-16AU-ND	IC MCU 8BIT 128KB FLASH 64TOFP	\$7.520	5	\$37.60	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	ADM6320CY29ARJZ-R7CT-ND	IC SUPERVISOR WATCHDOG SOT23-5	\$1.540	5	\$7.70	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	568-1074-1-ND	IC I/O EXPANDER I2C 8B 16SOIC	\$1.220	5	\$6.10	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	296-29034-1-ND	IC Monitor PWR/CURR BIDIR 10MSOP	\$3.440	5	\$17.20	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	296-38849-1-ND	IC ADC 16BIT 860SPS LP 10MSOP	\$5.650	5	\$28.25	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	LTC3638EMSE#PBF-ND	IC REG BUCK ADJ 0.25A 16MSOP	\$7.790	5	\$38.95	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	811-2109-5-ND	CONVERT DC/DC 6W 12VIN-SVOUT T/H	\$22.000	2	\$44.00	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	336-2048-5-ND	DGTL ISO 3.75KV 2CH I2C 8SOIC	\$3.370	5	\$16.85	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	NCP1117ST33T3GOSCT-ND	IC REG LDO 3.3V 1A SOT223	\$0.460	5	\$2.30	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	768-1007-1-ND	IC USB FS SERIAL UART 28-SSOP	\$4.500	5	\$22.50	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	TLP2361(V4-TPLECT-ND	OPTOISO 3.75KV PSH PULL SO6-5	\$1.140	5	\$5.70	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	A113982-ND	CONN RCPT 4POS 11.18MM PCB SLDR	\$8.300	5	\$41.50	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	WM1340-ND	CONN HEADER 2POS .100 R/A SMD	\$2.610	5	\$13.05	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	WM1344-ND	CONN HEADER 6POS .100 R/A SMD	\$4.200	5	\$21.00	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	ED2983-ND	CONN USB TYPE B R/A BLACK	\$0.546	10	\$5.46	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	182-37FE-ND	CONN D-SUB RCPT 37POS R/A SOLDER	\$3.280	3	\$9.84	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	WM3789CT-ND	CONN MOD JACK 6P6C VERT UNSHLD	\$1.160	3	\$3.48	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	RRR015P03TLCT-ND	MOSFET P-CH 30V 1.5A TSM3	\$0.396	10	\$3.96	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	P510BZCT-ND	RES SMD 510 OHM 5% 1/4W 0603	\$0.034	100	\$3.40	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	CSNL1206FT1L00CT-ND	RES SMD 0.001 OHM 1% 1W 1206	\$0.539	10	\$5.39	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	1276-1052-1-ND	CAP CER 10UF 10V X5R 0805	\$0.074	50	\$3.68	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	1276-1854-1-ND	CAP CER 10UF 25V X5R 1210	\$0.093	100	\$9.30	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	BK-6010-ND	FUSE BLOCK BLADE PCB	\$0.494	10	\$4.94	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	SK310A-LTPMSCT-ND	DIODE SCHOTTKY 100V 3A DO214AC	\$0.328	25	\$8.21	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	PB1014-ND	RELAY GEN PURPOSE SPST 30A 5V	\$3.780	5	\$18.90	13-Feb-17	17-Feb-17	4 days	
1	TSV	Digikey	296-40579-1-ND	IC V-LEVEL XLATR FM+ I2C 8VSSOP	\$1.010	5	\$5.05	13-Feb-17	17-Feb-17	4 days	
1	Shipping / Tax / Misc	Digikey					\$13.32				
2	Cooling	SparkFun	DEV-13262	CAN-BUS Shield	\$24.950	1	\$24.95	15-Feb-17	21-Feb-17	6 days	
2	Cooling	SparkFun	DEV-11021	Arduino Uno - R3	\$24.950	1	\$24.95	15-Feb-17	21-Feb-17	6 days	
2	Shipping / Tax / Misc	SparkFun					\$9.10				
3	Cooling	Koolance	NZL-LXG1	Fitting Elbow 1/4 BSPP	\$9.990	2	\$19.98	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	QD4-FS13X19	QD4 Female Compression 13 x 19	\$15.990	2	\$31.98	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	QD4-MSN38	QD4 Male to 3/8 NPT Male	\$12.490	2	\$24.98	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	ADT-XMM-BK	Male-Male G 1/4 BSPP	\$2.490	3	\$7.47	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	FIT-V13X19-BK	Compression 13X19 to 1/4 BSPP	\$6.740	4	\$26.96	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	INS-FM17N	Flow Meter	\$19.990	1	\$19.99	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	SEN-TPL01OK	Temperature Sensor	\$19.990	2	\$39.98	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	TAP-CP002P	Temperature Sensor Tape	\$0.350	1	\$0.35	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	SEN-AP007P	Temperature Sensor, Flat, 10K Ohm	\$4.490	1	\$4.49	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	PMP-450S	PMP-450S Pump, ID 13mm	\$76.990	1	\$76.99	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	HX-720	Radiator, 2x120mm 30-FPI Copper	\$47.990	1	\$47.99	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	GRL-AP002P	Fan Grill, 120mm	\$2.490	2	\$4.98	16-Feb-17	23-Feb-17	7 days	
3	Cooling	Koolance	CBL-CTR103P	3-4pin Molex Power Adapter	\$3.490	1	\$3.49	16-Feb-17	23-Feb-17	7 days	
3	Shipping / Tax / Misc	Koolance					\$12.39				
4	Cooling	SparkFun	LCD-09568	Serial Enabled 20x4 LCD - Black on Green 5V	\$29.950	1	\$29.95	16-Feb-17	22-Feb-17	6 days	
4	Shipping / Tax / Misc	SparkFun					\$9.10				
5	Cooling	Amazon		Asiahorse PWM Solar Eclipse-Ultra Quiet Bearing 120mm DC Led Fan for Computer Cases, Long Life CPU Coolers	\$20.990	1	\$20.99	16-Feb-17	22-Feb-17	6 days	
5	Shipping / Tax / Misc	Amazon					\$8.51				
6	TSI	EV West	GV200-OA	Gigavac GV200-OA EV Contactor - 4000 Amps Max - 48 Volt External Economizer PWM (Relay for motor controller)	\$114.880	1	\$114.88	17-Feb-17	24-Feb-17	7 days	
6	Shipping / Tax / Misc	EV West					\$12.28				
7/8	GLV	Digikey	350-4050-ND	LED PANEL INDICATOR RED 24V	\$6.970	5	\$34.85	21-Feb-17	27-Feb-17	6 days	
7/8	GLV	Digikey	350-4053-ND	LED PANEL INDICATOR GREEN 24V	\$8.940	5	\$44.70	21-Feb-17	27-Feb-17	6 days	
7/8	TSI	Digikey	AT90CAN128-15AZCT-ND	IC MCU 8BIT 128KB FLASH 64TOFP	\$12.890	1	\$12.89	21-Feb-17	27-Feb-17	6 days	
7/8	TSI	Digikey	PA0096-ND	Breakout board to convert TOFP to DIP	\$15.790	1	\$15.79	21-Feb-17	27-Feb-17	6 days	
7/8	TSI	Digikey	MCP2551-I/P-ND	IC TRANSCEIVER CAN HI-SPD 8-DIP	\$1.050	1	\$1.05	21-Feb-17	27-Feb-17	6 days	
7/8	Shipping / Tax / Misc	Digikey					\$8.99				
9	Cabling	Mouser	571-DT06-3S	Automotive Connectors 3WAY PLUG GRAY	\$1.220	15	\$18.30	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-1011-235-0405	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 4 connect	\$2.240	17	\$38.08	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-1011-231-0305	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 3 connect	\$3.500	11	\$38.50	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-1011-239-0605	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 6 connect	\$2.480	15	\$37.20	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-1011-245-0805	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 8 connect	\$3.880	10	\$38.80	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-1011-247-1205	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 12 connect	\$3.360	6	\$20.16	1-Mar-17	3-Mar-17	2 days	

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9	Cabling	Mouser	571-DT06-8SA	Automotive Connectors see p/n DT06-08SA	\$7.440	10	\$74.40	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-DT06-12SA	Automotive Connectors SZ 16 DT 12 WAY PLUG	\$5.080	5	\$25.40	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-W8-S	Automotive Connectors WEDGE LOCK FOR 8WAY PLUG	\$0.229	10	\$2.29	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-W12S	Automotive Connectors WEDGELOCK, DT, 12 WAY PLUG	\$0.306	10	\$3.06	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-DT06-2S	Automotive Connectors DT Plug 2 Way	\$1.030	10	\$10.30	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-DT04-2P	Automotive Connectors DT 2 WAY RECP	\$0.849	10	\$8.49	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-DT06-4S	Automotive Connectors PLUG DT 4 WAY	\$1.490	10	\$14.90	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-DT04-4P	Automotive Connectors DT 4 WAY RECP	\$1.440	10	\$14.40	1-Mar-17	3-Mar-17	2 days	
9	Cabling	Mouser	571-W2-P	Automotive Connectors WEDGE LOCK FOR 2P REC HOUSING	\$0.105	10	\$1.05	1-Mar-17	3-Mar-17	2 days	
9	Shipping / Tax / Misc	Mouser					\$9.49				
10	Department	Sears	00934555000P	Craftsman 12 pc. Nutdriver Set in Zippered Case	\$39.990	1	\$39.99	6-Mar-17	9-Mar-17	3 days	
10	Department	Sears	00946298000P	Craftsman 7 pc. Metric T-Handle Hex Key Set	\$20.000	1	\$20.00	6-Mar-17	9-Mar-17	3 days	
10	Department	Sears	00953155000P	Craftsman 155-Piece Mechanics Tool Set with 75 Tooth Ratchets	\$79.990	1	\$79.99	6-Mar-17	9-Mar-17	3 days	
10	Department	Sears	SPM7696798322	TAMIYA 74047 HG Angled Tweezers TAMR7447	\$21.370	1	\$21.37	6-Mar-17	9-Mar-17	3 days	
10	Department	Sears	00941633000P	Craftsman 10 pc. Screwdriver Set	\$24.990	1	\$24.99	6-Mar-17	9-Mar-17	3 days	
10	Shipping / Tax / Misc	Sears					\$16.76				
11	TSV	Digikey	296-13493-1-ND	IC INVERTER DUAL 1INPUT SC70-6	\$0.464	10	\$4.64	6-Mar-17	20-Mar-17	14 days	
11	TSI	Digikey	BKCT3134-2-ND	DIY 4MM SHTH JACK-RED	\$3.000	1	\$3.00	6-Mar-17	20-Mar-17	14 days	
11	TSI	Digikey	BKCT3134-0-ND	DIY 4MM SHTH JACK-BLACK	\$3.000	2	\$6.00	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	296-38571-1-ND	SENSOR TEMPERATURE SMBUS 8VSSOP	\$3.430	5	\$17.15	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	Z2254-ND	RELAY GEN PURPOSE SPST 10A 24V	\$1.300	5	\$6.50	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	296-34970-1-ND	IC LOAD SW HIGH SIDE 6SOT	\$0.460	10	\$4.60	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	PB192-ND	CIR BRKR THRM 15A 250VAC 32VDC	\$3.260	1	\$3.26	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	PB189-ND	CIR BRKR THRM 8A 250VAC 32VDC	\$3.260	1	\$3.26	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	GH1367-ND	SWITCH PUSH SPST-NO 0.15A 5V	\$3.040	2	\$6.08	6-Mar-17	20-Mar-17	14 days	
11	GLV	Digikey	GH1368-ND	SWITCH PUSH SPST-NO 0.15A 5V	\$3.040	2	\$6.08	6-Mar-17	20-Mar-17	14 days	
11	Shipping / Tax / Misc	Digikey					\$8.99				
12	Cabling	Wire and Cable Your Way	SJO16s2	16/2 SJOOW Portable Cord 300V UL/CSA	\$0.250	50	\$12.50	7-Mar-17	10-Mar-17	3 days	
12	Cabling	Wire and Cable Your Way	SJO12s3	12/3 SJOOW Portable Cord 300V UL/CSA	\$0.620	65	\$40.30	7-Mar-17	10-Mar-17	3 days	
12	Cabling	Wire and Cable Your Way	S0016s12	16/12 SOOW Portable Cord 600V UL/CSA	\$1.580	15	\$23.70	7-Mar-17	10-Mar-17	3 days	
12	Cabling	Wire and Cable Your Way	S0016s8	16/8 SOOW Portable Cord 600V UL/CSA	\$0.980	30	\$29.40	7-Mar-17	10-Mar-17	3 days	
12	Cabling	Wire and Cable Your Way	GXL20	20 AWG GXL Automotive Primary Wire, 500' or 1000' Spool (Red)	\$22.000	1	\$22.00	7-Mar-17	10-Mar-17	3 days	
12	Shipping / Tax / Misc	Wire and Cable Your Way					\$29.00				
13	Cabling	Mouser	571-DT04-2P-L012	Automotive Connectors DT RECP ASM RoHS Compliant	\$3.170	10	\$31.70	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-W2-P	Automotive Connectors WEDGE LOCK FOR 2P RECHOUSING RoHS Compliant	\$0.105	20	\$2.10	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-DT04-3P-L012	Automotive Connectors DT 3WAY RECEPTACLE FLANGE MOUNT RoHS Compliant	\$4.770	5	\$23.85	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-W3-P	Automotive Connectors WEDGE LOCK FOR 3WAY REC HSNG RoHS Compliant	\$0.126	10	\$1.26	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-W3-S	Automotive Connectors WEDGE LOCK FOR 3WAY PLUG RoHS Compliant	\$0.126	10	\$1.26	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-DT04-4P-L012	Automotive Connectors SZ 4 WAY RECP DT FLANGE MOUNT RoHS Compliant	\$5.140	5	\$25.70	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-DT04-6P-CL09	Automotive Connectors DT RECP ASM RoHS Compliant	\$21.240	10	\$212.40	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-DT06-6S	Automotive Connectors PLUG DT 6 WAY RoHS Compliant	\$2.570	5	\$12.85	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-W8-P	Automotive Connectors WEDGE LOCK FOR 8WAY REC RoHS Compliant	\$0.255	10	\$2.55	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-DT04-12PA-L012	Automotive Connectors DT 12 WAY REC W/ FLANGE RoHS Compliant	\$8.510	5	\$42.55	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-W12P	Automotive Connectors WEDGELOCK DT 12 WAY RECP RoHS Compliant	\$0.280	10	\$2.80	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-114017	Automotive Connectors SEALING PLUG SZ 12-16 RoHS Compliant	\$0.482	50	\$24.10	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-160001	Terminals TERM, SOLIS R 2/0 M10 RoHS Compliant	\$3.370	15	\$50.55	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-323127	Terminals SPADE 22-16AWG 6 RoHS Compliant	\$0.177	100	\$17.70	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-2-520184-2	Terminals INSULATED RECP 22-18 .250 x .032 RoHS Compliant	\$0.180	100	\$18.00	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-25201032	Terminals TAB 22-18AWG .250 .250 x .032 RoHS Compliant	\$0.177	100	\$17.70	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-776164-1	Automotive Connectors PLG 35 POS F/H BLK	\$10.700	2	\$21.40	7-Mar-17	20-Mar-17	13 days	
13	Cabling	Mouser	571-7708541	Automotive Connectors RECEPT CONTACT LOOSE	\$0.128	100	\$12.80	7-Mar-17	20-Mar-17	13 days	

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13	Cabling	Mouser	571-776463-1	Automotive Connectors WIRE RELIEF, PLUG 35 POS	\$3.060	2	\$6.12	7-Mar-17	20-Mar-17	13 days	
13	Shipping / Tax / Misc	Mouser					\$14.24				
14	Cooling	Amazon		Swiftech MCRES Micro Revision 2 Reservoir	\$27.990	1	\$27.99	8-Mar-17	20-Mar-17	12 days	
14	Cooling	Amazon		Precision Brand M12S Micro Seal 9/16 inches	\$14.460	1	\$14.46	8-Mar-17	20-Mar-17	12 days	
14	Shipping / Tax / Misc	Amazon					\$2.55				
15	Department	Brady	BMP21-PLUS-KIT1	BMP21-PLUS Printer Kit	\$195.000	1	\$195.00	8-Mar-17	20-Mar-17	12 days	
15	Cabling	Brady	M21-250-C-342	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	\$57.190	1	\$57.19	8-Mar-17	20-Mar-17	12 days	
15	Cabling	Brady	M21-375-C-342	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	\$64.390	1	\$64.39	8-Mar-17	20-Mar-17	12 days	
15	Shipping / Tax / Misc	Brady					\$14.03				
16	GLV	EV West		First Technology Inertia Switch - 360 degree Resettable Crash Sensors	\$52.800	1	\$52.80	8-Mar-17	20-Mar-17	12 days	
16	Shipping / Tax / Misc	EV West					\$12.28				
17	Department	Grainger	25D147	19-1/2"L Crimper, 6 to 4/0 AWG	\$215.400	1	\$215.40	9-Mar-17	10-Mar-17	1 days	
17	Shipping / Tax / Misc	Grainger					\$0.00				
18	GLV	Digikey	ADS7823E/250CT-ND	IC 12-BIT LP A/D CONV 8VSSOP	\$7.650	3	\$22.95	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	LTC2631ITS8-LM12#TRMPBFCT-ND	IC DAC 12BIT VOUT TSOT23-8	\$4.280	2	\$8.56	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	350-2645-ND	LED PANEL IND 5V 15MA RED	\$6.130	3	\$18.39	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	RMCF0805JT10K0CT-ND	RES SMD 10K OHM 5% 1/8W 0805	\$0.006	100	\$0.61	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	RMCF0805JT120RCT-ND	RES SMD 120 OHM 5% 1/8W 0805	\$0.006	100	\$0.61	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	RNCF0805TKY250RCT-ND	RES SMD 250 OHM 0.01% 1/8W 0805	\$1.815	10	\$18.15	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	311-100CRCT-ND	RES SMD 100 OHM 1% 1/8W 0805	\$0.008	100	\$0.77	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	P1.0KADCT-ND	RES SMD 1K OHM 5% 1/2W 0805	\$0.068	25	\$1.71	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	SK310A-LTPMSCT-ND	DIODE SCHOTTKY 100V 3A DO214AC	\$0.400	10	\$4.00	9-Mar-17	20-Mar-17	11 days	
18	GLV	Digikey	CSNL1206FT1L00CT	RES SMD 0.001 OHM 1% 1W 1206	\$0.416	50	\$20.79	9-Mar-17	20-Mar-17	11 days	
18	Shipping / Tax / Misc	Digikey					\$8.99				
19	TSV	Mouser	879-1827G1-BK	Heavy Duty Power Connectors PP15/45 PREMATE HSG ONLY GRN -BULK	\$0.490	5	\$2.45	23-Mar-17	28-Mar-17	5 days	
19	TSV	Mouser	879-115G1	Heavy Duty Power Connectors PP PAK-2-4P HDWE PAK-CABLE	\$1.320	5	\$6.60	23-Mar-17	28-Mar-17	5 days	
19	TSV	Mouser	879-110G9	Heavy Duty Power Connectors SNAP-IN RECEPTACLE RETAINING PINS	\$0.200	25	\$5.00	23-Mar-17	28-Mar-17	5 days	
19	TSV	Mouser	879-1470G1	Heavy Duty Power Connectors PP PAK 2-4P HSG SNAP-IN RECEP	\$2.940	5	\$14.70	23-Mar-17	28-Mar-17	5 days	
19	TSV	Mouser	879-1460G1	Heavy Duty Power Connectors PP PAK 2-4P HSG-PLUG W/LATCH	\$2.030	3	\$6.09	23-Mar-17	28-Mar-17	5 days	
19	TSV	Mouser	636-983-037-020R121	D-Sub Backshells 37P STRAIGHT SNAP METALIZED PLASTIC	\$3.800	8	\$30.40	23-Mar-17	28-Mar-17	5 days	
19	Shipping / Tax / Misc	Mouser					\$7.99				
20	GLV	Digikey	AD5593RBRUZ-ND	8 Channel, ADC/DAC Chip	\$7.900	3	\$23.70	23-Mar-17	28-Mar-17	5 days	
20	GLV	Digikey	MCP6004T-I/STCT-ND	Quad Op Amp	\$0.450	5	\$2.25	23-Mar-17	28-Mar-17	5 days	
20	GLV	Digikey	BSS84CT-ND	MOSFET P-CH 50V 130MA SOT-23	\$0.194	10	\$1.94	23-Mar-17	28-Mar-17	5 days	
20	GLV	Digikey	Z1013-ND	Single Pole Double Throw 24V Relay	\$1.330	4	\$5.32	23-Mar-17	28-Mar-17	5 days	
20	TSV	Digikey	LT1307BCS8#PBF-ND	IC REG BOOST ADJ 0.6A 8SOIC	\$4.150	10	\$41.50	23-Mar-17	28-Mar-17	5 days	
20	Shipping / Tax / Misc	Digikey					\$8.99				
21	Cabling	Newark - Element 14	77R3075	RECEPTACLE, FLANGE, 8 POSITION, PIN	\$9.440	4	\$37.76	23-Mar-17	27-Mar-17	4 days	
21	Shipping / Tax / Misc	Newark - Element 15					\$5.00				
22	Cabling	Wire Care	0462-201-16141	Female, Crimp 16 - 20 AWG	\$0.336	200	\$67.20	23-Mar-17	28-Mar-17	5 days	
22	Cabling	Wire Care	0460-202-16141	Male pin 16 - 20 AWG	\$0.593	200	\$118.60	23-Mar-17	28-Mar-17	5 days	
22	Shipping / Tax / Misc	Wire Care					\$8.99				
23	Department	Cable Ties and More	HSK3-1-KIT-BK	3:1 Shrink Black 6 sizes, 110 pcs 6" Length	\$42.280	1	\$42.28	23-Mar-17	13-Apr-17	21 days	Was cabling purchase, but department paid after cancellation failed. It is advised to not use this company in the future.
23	Department	Cable Ties and More	WL923	3/4" Diameter Split Wire Loom 100' Roll	\$16.500	1	\$16.50	23-Mar-17	13-Apr-17	21 days	Was cabling purchase, but department paid after cancellation failed. It is advised to not use this company in the future.
23	Shipping / Tax / Misc	Cable Ties and More					\$13.02				
24	Cabling	Allied Electronics	571-1011-267-0605	DT BACKSHELL 180 6way plug, DT06-6S	\$2.080	20	\$41.60	23-Mar-17	28-Mar-17	5 days	
24	Shipping / Tax / Misc	Allied Electronics					\$14.14				
25	Cabling	Automation Direct	29892469184	Type MTW wire, 20 AWG, 10-strand, bare copper, red insulation, 600V, 500 ft spool. Alternate part ID: 029892469184.	\$25.000	1	\$25.00	23-Mar-17	27-Mar-17	4 days	
25	Shipping / Tax / Misc	Automation Direct					\$6.00				
26	Department	AA Portable Power Corp	6334	LiFeMnPO4 Prismatic Module: 3.2V 60 Ah, 10C Rate (192 wh) - UN38.3 Passed	\$96.750	3	\$290.25	28-Mar-17	5-Apr-17	8 days	

Purchases - Organized by Purchase Order / Date Ordered

Purchase Order	Subsystem / Budget Category	Vendor	Vendor PN	Description	Unit Price	Quantity	Total Price	Date Ordered	Date Received	Shipping Time	Notes
26	Shipping / Tax / Misc	AA Portable Power Corp					\$30.70				
27	GLV	Amazon	PZEM-031	Digital Display Multimeter	\$14.990	1	\$14.99	29-Mar-17	5-Apr-17	7 days	
27	Shipping / Tax / Misc	Amazon					\$5.01				
28	GLV	Digikey	102-2927-ND	DC/DC CONVERTER 5V 20W	\$33.850	1	\$33.85	29-Mar-17	3-Apr-17	5 days	
28	GLV	Digikey	AE10921-ND	CONN D-SUB RCPT 9POS R/A SOLDER	\$0.770	1	\$0.77	29-Mar-17	3-Apr-17	5 days	
28	GLV	Digikey	399-1170-1-ND	CAP CER 0.1UF 50V X7R 0805	\$0.013	1000	\$13.28	29-Mar-17	3-Apr-17	5 days	
28	Shipping / Tax / Misc	Digikey					\$8.99				
29	TSV	McMaster-Carr	90272A087	Steel Phillips Rounded Head Screws, 2-56 Thread Size, 1-1/4" long (FOR AMS BOARD HEAT SINKS)	\$5.980	1	\$5.98	29-Mar-17	30-Mar-17	1 days	
29	TSV	McMaster-Carr	90631A003	Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 2-56 thread size (FOR AMS BOARD HEAT SINKS)	\$3.370	1	\$3.37	29-Mar-17	30-Mar-17	1 days	
29	GLV	McMaster-Carr	95185A105	Press Fit Nuts for sheet metal (2-56)	\$9.400	1	\$9.40	29-Mar-17	30-Mar-17	1 days	
29	GLV	McMaster-Carr	95185A185	Press Fit Nuts for sheet metal (10-32)	\$6.260	1	\$6.26	29-Mar-17	30-Mar-17	1 days	
29	GLV	McMaster-Carr	94639A703	Nylon unthreaded spacers (2)	\$7.510	1	\$7.51	29-Mar-17	30-Mar-17	1 days	
29	GLV	McMaster-Carr	94639A351	Nylon unthreaded spacers (10)	\$7.680	1	\$7.68	29-Mar-17	30-Mar-17	1 days	
29	GLV	McMaster-Carr	90272A079	Steel Phillips Screws 2-56	\$3.280	1	\$3.28	29-Mar-17	30-Mar-17	1 days	
29	GLV	McMaster-Carr	90272A827	Steel Phillips Screws 10-32	\$3.950	1	\$3.95	29-Mar-17	30-Mar-17	1 days	
29	Shipping / Tax / Misc	McMaster-Carr					\$5.32				
30	TSI	Mouser	600-CANOP	Interface Modules CAN OPTICAL REPEATER W/TB	\$209.000	1	\$209.00	29-Mar-17	3-Apr-17	5 days	
30	TSV	Mouser	567-657-10ABPE	Heat Sinks HI PERF VERT Board MTG TO220/227/218 RoHS Compliant (FOR AMS BOARD)	\$1.040	29	\$30.16	29-Mar-17	3-Apr-17	5 days	
30	Shipping / Tax / Misc	Mouser					\$8.74				
31	Department	Newark - Element 14	44f8409	Crimp Tool, Hand, AMP 28-16 AWG, Contacts	\$185.71	1	\$185.71	29-Mar-17	31-Mar-17	2 days	
31	Shipping / Tax / Misc	Newark - Element 15					\$0.00				
32	Department	Powerwerx	TR1crimp	TR1crimp, the best crimping tool for Powerpole for 15, 30 and 45 amp contacts	\$39.990	1	\$39.99	29-Mar-17	5-Apr-17	7 days	
32	Shipping / Tax / Misc	Powerwerx					\$12.78				
33	TSI	Digikey	102-3865-ND	DC/DC CONVERTER 5V 10W	\$25.820	2	\$51.64	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	102-2728-ND	CONVERT DC/DC 2W 12V 167MA OUT	\$5.710	2	\$11.42	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	1715-1676-1-ND	SWITCH PUSH SPST-NO 0.1A 42V	\$2.400	3	\$7.20	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	296-39512-1-ND	IC ANLG SW SPDT SOT23-6	\$0.980	3	\$2.94	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	296-40259-1-ND	IC GATE NAND 1CH 8-INP 14-SOIC	\$2.280	3	\$6.84	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	296-4180-1-ND	SENSOR TEMPERATURE SPI SOT23-5	\$2.900	3	\$8.70	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	311-120CRCT-ND	RES SMD 120 OHM 1% 1/8W 0805	\$0.014	25	\$0.34	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	311-47.0KCRCT-ND	RES SMD 47K OHM 1% 1/8W 0805	\$0.014	25	\$0.34	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	399-1108-1-ND	CAP CER 10PF 50V NPO 0805	\$0.053	25	\$1.33	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	401-2001-ND	SWITCH SLIDE DPDT 300MA 6V	\$0.410	5	\$2.05	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	475-1278-1-ND	LED RED DIFFUSED 0805 SMD	\$0.190	10	\$1.90	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	475-1410-1-ND	LED GREEN DIFFUSED 0805 SMD	\$0.180	10	\$1.80	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	475-2560-1-ND	LED YELLOW DIFFUSED 0805 SMD	\$0.253	10	\$2.53	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	490-10515-1-ND	CAP CER 10UF 35V X5R 0805	\$0.251	10	\$2.51	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	490-3550-1-ND	CAP CER 1UF 250V X7R 2220	\$0.850	3	\$2.55	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	490-6538-1-ND	CAP CER 47UF 16V X5R 1210	\$0.860	3	\$2.58	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	497-10252-1-ND	IC OPAMP GP 1.4MHZ RRO 8SO	\$1.540	6	\$9.24	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	497-2271-1-ND	IC COMP LP DUAL CMOS VOLT 8 SOIC	\$0.620	4	\$2.48	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	516-1445-1-ND	LED BLUE DIFFUSED 0805 SMD	\$0.693	10	\$6.93	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	516-2578-5-ND	IC OPAMP ISOLATION 100KHZ 8SO	\$5.390	4	\$21.56	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	587-1293-1-ND	CAP CER 2.2UF 16V X5R 0805	\$0.114	10	\$1.14	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	587-2004-1-ND	FIXED IND 100UH 1A 377 MOHM SMD	\$0.600	3	\$1.80	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	609-4054-ND	CONN HEADER 10POS DUAL SHRD SMD	\$1.110	2	\$2.22	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	887-1741-1-ND	CRYSTAL 10.000MHZ 12PF SMD	\$0.660	3	\$1.98	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	A113980-ND	CONN RCPT 2POS 11.18MM PCB SLDR	\$7.130	2	\$14.26	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	AT90CAN128-16AURCT-ND	IC MCU 8BIT 128KB FLASH 64TOFP	\$7.660	3	\$22.98	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	LTC3638EMSE#PBF-ND	IC REG BUCK ADJ 0.25A 16MSOP	\$7.790	3	\$23.37	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	MCP2551-I/SN-ND	IC TRANSCEIVER CAN HI-SPD 8-SOIC	\$1.050	3	\$3.15	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	MCP6001T-I/OTCT-ND	IC OPAMP GP 1MHZ RRO SOT23-5	\$0.250	4	\$1.00	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	MCP6002T-I/SNCT-ND	IC OPAMP GP 1MHZ RRO 8SOIC	\$0.340	4	\$1.36	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	MCP6004T-I/SLCT-ND	IC OPAMP GP RRO 1MHZ 14-SOIC	\$0.450	6	\$2.70	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	MMBF170CT-ND	MOSFET N-CH 60V 500MA SOT-23	\$0.259	10	\$2.59	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P1.00KCCT-ND	RES SMD 1K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P10.0KCCT-ND	RES SMD 10K OHM 1% 1/8W 0805	\$0.015	100	\$1.48	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P100KCCT-ND	RES SMD 100K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P137KCCT-ND	RES SMD 137K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P196CCT-ND	RES SMD 196 OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P2.00KCCT-ND	RES SMD 2K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P4.75KCCT-ND	RES SMD 4.75K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P499DACT-ND	RES SMD 499 OHM 0.1% 1/8W 0805	\$0.210	25	\$5.24	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P665KCCT-ND	RES SMD 665K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	

Purchases - Organized by Purchase Order / Date Ordered

Purchase Order	Subsystem / Budget Category	Vendor	Vendor PN	Description	Unit Price	Quantity	Total Price	Date Ordered	Date Received	Shipping Time	Notes
33	TSI	Digikey	P750KCCT-ND	RES SMD 750K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P9_31KCCT-ND	RES SMD 9.31K OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	SK310A-LTPMCT-ND	DIODE SCHOTTKY 100V 3A DO214AC	\$0.600	4	\$2.40	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	TLP293(GB-TPLECT-ND	OPTOISOLATOR 3.75KV TRANS 4-SO	\$0.308	25	\$7.70	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	WM14741-ND	QF50 SRD HDR VT_1AU 20POS	\$2.310	2	\$4.62	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	WM3789CT-ND	CONN MOD JACK 6P&C VERT UNSHLD	\$1.160	2	\$2.32	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	WM4128-ND	CONN HEADER 8POS_100 VERT 30AU	\$1.880	2	\$3.76	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	WM4802-ND	CONN HEADER 4POS_100 VERT GOLD	\$0.940	2	\$1.88	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	WM8632-ND	CONN HEADER 14POS 2.54MM VERT	\$2.400	2	\$4.80	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	Z5375-ND	JUMPER PLUG 3POS SING ROW	\$0.260	4	\$1.04	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	ZVP4525GCT-ND	MOSFET P-CH 250V 0.265A SOT223	\$0.710	4	\$2.84	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	LM7810ACT-ND	IC REG LDO 10V 1A TO220-3	\$0.640	4	\$2.56	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	311-150CRCT-ND	RES SMD 150 OHM 1% 1/8W 0805	\$0.010	50	\$0.52	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	399-1122-1-ND	CAP CER 100PF 50V NPO 0805	\$0.037	25	\$0.92	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P150KCCT-ND	RES SMD 150K OHM 1% 1/8W 0805	\$0.020	50	\$1.00	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P16KACT-ND	RES SMD 16K OHM 5% 1/8W 0805	\$0.014	50	\$0.68	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P24_9KCCT-ND	RES SMD 24_9K OHM 1% 1/8W 0805	\$0.020	50	\$1.00	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P249KCCT-ND	RES SMD 249K OHM 1% 1/8W 0805	\$0.020	50	\$1.00	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	P330CCT-ND	RES SMD 330 OHM 1% 1/8W 0805	\$0.026	25	\$0.66	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	350-4050-ND	LED PANEL INDICATOR RED 24V	\$6.970	3	\$20.91	30-Mar-17	5-Apr-17	6 days	
33	TSI	Digikey	350-4053-ND	LED PANEL INDICATOR GREEN 24V	\$8.940	3	\$26.82	30-Mar-17	5-Apr-17	6 days	
33	Shipping / Tax / Misc	Digikey					\$14.99				
34	TSV	DFRobot	DFR0154	I2C 20x4 Arduino LCD Display Module	\$23.000	2	\$46.00	30-Mar-17	5-Apr-17	6 days	
34	Shipping / Tax / Misc	DFRobot					\$12.00				
35	Cabling	IEWC	EXRAD2/0-XLEOBS	Single-Shielded Double-Insulated Cable EXRAD2/0-XLEOBS-5 (2/0 1254B IRRAD EXTRAD OBS 150C 600V ORG)	\$10.000	30 feet	\$300.00	30-Mar-17	5-Apr-17	6 days	
35	Shipping / Tax / Misc	IEWC					\$15.00				
36	Cabling	Newark - Element 14	44W4336	ITT CANNON LINE DRAIN, NEUTRAL, BLUE, 400A	\$56.410	2	\$112.82	30-Mar-17	10-Apr-17	11 days	
36	Cabling	Newark - Element 14	44W4346	ITT CANNON LINE SOURCE, NEUTRAL, BLUE, 400A	\$56.900	1	\$56.90	30-Mar-17	10-Apr-17	11 days	
36	Cabling	Newark - Element 14	64W3407	VEAM REDUCTION SLEEVE R70	\$10.590	3	\$31.77	30-Mar-17	5-Apr-17	6 days	
36	Shipping / Tax / Misc	Newark - Element 14					\$0.00				
37	TSV	Digikey	PWR220T-20-R750F-ND	RES 0.75 OHM 20W 1% TO220	\$4.000	5	\$20.00	5-Apr-17	10-Apr-17	5 days	
37	TSV	Digikey	MBR0520LCT-ND	DIODE SCHOTTKY 20V 500MA SOD123	\$0.295	20	\$5.90	5-Apr-17	10-Apr-17	5 days	
37	TSV	Digikey	P470ACT-ND	RES SMD 470 OHM 5% 1/8W 0805	\$0.010	100	\$1.00	5-Apr-17	10-Apr-17	5 days	
37	TSV	Digikey	P100KCCT-ND	RES SMD 100K OHM 1% 1/8W 0805	\$0.020	50	\$1.00	5-Apr-17	10-Apr-17	5 days	
37	TSV	Digikey	450-2055-1-ND	SWITCH TACTILE SPST-NO 0.05A 24V	\$0.275	10	\$2.75	5-Apr-17	10-Apr-17	5 days	
37	TSV	Digikey	36-655-ND	BANANA PLUG_500" 6-32 EXT THD	\$2.045	10	\$20.45	5-Apr-17	10-Apr-17	5 days	
37	Shipping / Tax / Misc	Digikey					\$8.99				
38	TSI	Mouser	652-PTA4432015CPB202	Slide Potentiometers 2K LINEAR	\$1.010	10	\$10.10	5-Apr-17	10-Apr-17	5 days	
38	TSI	Mouser	450-SL4514	Knobs & Dials SLIDE CNTRL GY/BK	\$1.140	2	\$2.28	5-Apr-17	10-Apr-17	5 days	
38	TSI	Mouser	629-GPB507A05BR	Pushbutton Switches Off-(On) Pushbutton Red	\$2.160	1	\$2.16	5-Apr-17	10-Apr-17	5 days	
38	Shipping / Tax / Misc	Mouser					\$7.99				
39	TSI	McMaster-Carr	95117A433	Press-Fit Nut for Soft Metal and Plastic (pack of 50)	\$12.690	1	\$12.69	5-Apr-17	6-Apr-17	1 days	
39	TSI	McMaster-Carr	90272A145	Steel Phillips Rounded Head Screw (pack of 100)	\$1.990	1	\$1.99	5-Apr-17	6-Apr-17	1 days	
39	TSI	McMaster-Carr	94335A147	Electrical-Insulating Femal Threaded Standoff (2")	\$5.760	3	\$17.28	5-Apr-17	6-Apr-17	1 days	
39	TSI	McMaster-Carr	94335A125	Electrical-Insulating Femal Threaded Standoff (1/2")	\$3.560	10	\$35.60	5-Apr-17	6-Apr-17	1 days	
39	TSI	McMaster-Carr	8975K11	6061 Aluminum (1")	\$4.420	1	\$4.42	5-Apr-17	6-Apr-17	1 days	
39	TSI	McMaster-Carr	92095A452	18-8 Stainless Steel Hex Drive Rounded Head Screw M2 x 0.4 mm Thread 5 mm Long	\$6.500	1	\$6.50	5-Apr-17	6-Apr-17	1 days	
39	TSI	McMaster-Carr	8216T77	3" Made to Order Peel and Stick (set message to TSI, color Black)	\$6.880	1	\$6.88	5-Apr-17	12-Apr-17	7 days	
39	GLV	McMaster-Carr	8216T77	3" Made to Order Peel and Stick (set message as GLV, color Black)	\$6.880	1	\$6.88	5-Apr-17	12-Apr-17	7 days	
39	GLV	McMaster-Carr	93635A156	M5 x .8mm screws 10mm long	\$8.320	1	\$8.32	5-Apr-17	6-Apr-17	1 days	
39	GLV	McMaster-Carr	90272A194	8-32 Thread Size Phillips Head Rounded Screws	\$3.140	1	\$3.14	5-Apr-17	6-Apr-17	1 days	
39	Shipping / Tax / Misc	McMaster-Carr					\$5.79				
40	TSI	GMW Associates	BBM-01	Bus Bar Module DC Current Sensor	\$40.000	1	\$40.00	5-Apr-17	14-Apr-17	9 days	
40	TSV	GMW Associates	BBM-01	Bus Bar Module DC Current Sensor	\$40.000	1	\$40.00	5-Apr-17	14-Apr-17	9 days	
40	Shipping / Tax / Misc	GMW Associates					\$10.25				
41	Cabling	Allied Electronics	70133109	Tubing Kit 1/16, 1/8, 1/4, 1/2, 3/4, and 1 In. sizes; Shrink(3:1)	\$36.360	1	\$36.36	10-Apr-17	12-Apr-17	2 days	
41	Cabling	Allied Electronics	70121553	HDMI (M-M) CABLE 1.4 W/ETHERNET CL3 28 AWG 1080P 10ft	\$11.880	1	\$11.88	10-Apr-17	12-Apr-17	2 days	
41	Shipping / Tax / Misc	Allied Electronics					\$42.41				
42	TSI	Super Bright LEDs	PT-STRB-R56	Oval LED Strobe Truck and Trailer Lights - 6" LED Lights w/ Built-In Controller - 3-Pin Connector - Red	\$24.950	1	\$24.95	12-Apr-17	18-Apr-17	6 days	
42	TSI	Super Bright LEDs	M9-R4	Oval LED Truck and Trailer Lights - 4" LED Side Clearance Lights w/ 4 High Flux LEDs - Pigtail Connector - Red	\$4.950	2	\$9.90	12-Apr-17	18-Apr-17	6 days	
42	Shipping / Tax / Misc	Super Bright LEDs					\$7.70				

**Purchases - Organized by Purchase Order / Date Ordered**

Purchase Order	Subsystem / Budget Category	Vendor	Vendor PN	Description	Unit Price	Quantity	Total Price	Date Ordered	Date Received	Shipping Time	Notes
43	GLV	McMaster-Carr	5945T83	Wrap-on Wire Marker Book, Tyvek, 1-45, Consecutively Numbered	\$15.000	1	\$15.00	12-Apr-17	13-Apr-17	1 days	
43	GLV	McMaster-Carr	5945T84	Wrap-on Wire Marker Book, Tyvek, 46-90, Consecutively Numbered	\$15.000	1	\$15.00	12-Apr-17	13-Apr-17	1 days	
43	Shipping / Tax / Misc	McMaster-Carr					\$5.32				
44	TSI	Digikey	P4.70KCCT-ND	RES SMD 4.7K OHM 1% 1/8W 0805	\$0.037	10	\$0.37	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	P4.87KCCT-ND	RES SMD 4.87K OHM 1% 1/8W 0805	\$0.037	10	\$0.37	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	P4.99KCCT-ND	RES SMD 4.99K OHM 1% 1/8W 0805	\$0.037	10	\$0.37	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	AKC14H-ND	CONN IDC SKT 14POS W/POL 15 GOLD	\$1.440	2	\$2.88	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	WM2902-ND	CONN HOUSING 4POS .100 W/LATCH	\$0.270	2	\$0.54	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	WM2906-ND	CONN HOUSING 8POS .100 W/LATCH	\$0.480	2	\$0.96	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	556879-2-ND	CONN HSG PLUG 2POS 11.18MM BLACK	\$3.890	2	\$7.78	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	F4564-ND	FUSE HLDR CART 500V 15A IN LINE	\$6.350	2	\$12.70	12-Apr-17	18-Apr-17	6 days	
44	TSI	Digikey	F3212-ND	FUSE CERAMIC 500MA 250VAC 125VDC	\$0.899	10	\$8.99	12-Apr-17	18-Apr-17	6 days	
44	TSV	Digikey	887-1741-1-ND	CRYSTAL 10.0000MHZ 12PF SMD	\$0.582	15	\$8.73	12-Apr-17	18-Apr-17	6 days	
44	Shipping / Tax / Misc	Digikey					\$8.99				
45	GLV	Adafruit	2718	7" Touchscreen Display for Raspberry Pi	\$79.950	1	\$79.95	12-Apr-17	18-Apr-17	6 days	
45	Shipping / Tax / Misc	Adafruit					\$9.09				
46	TSI	Mouser	652-PTA45532015DPB50	Slide Potentiometers 15MM SHAFT NO DET 45MM STRK SNG LIN	\$1.200	5	\$6.00	18-Apr-17	24-Apr-17	6 days	
46	TSI	Mouser	859-LTV-357T	Transistor Output Optocouplers Optocoupler Phototrans	\$0.192	10	\$1.92	18-Apr-17	24-Apr-17	6 days	
46	TSI	Mouser	594-AC05W10K00J	Wirewound Resistors - Through Hole 5watts 10Kohms 5%	\$0.580	6	\$3.48	18-Apr-17	24-Apr-17	6 days	
46	TSI	Mouser	571-5568802	Power to the Board CONTACT AMPINNERGY WTB 10-12	\$0.810	6	\$4.86	18-Apr-17	24-Apr-17	6 days	
46	GLV	Mouser	645-6123132120F	LED Panel Mount Indicators Red 60mcd 6VDC 15mA	\$5.190	2	\$10.38	18-Apr-17	24-Apr-17	6 days	
46	GLV	Mouser	645-6123132130F	LED Panel Mount Indicators Red 60mcd 12VDC 15mA	\$5.190	1	\$5.19	18-Apr-17	24-Apr-17	6 days	
46	GLV	Mouser	645-6123232140F	LED Panel Mount Indicators GREEN 110MCD 24VCD 15MA	\$5.190	2	\$10.38	18-Apr-17	24-Apr-17	6 days	
46	Shipping / Tax / Misc	Mouser					\$14.83				
47	TSV	McMaster-Carr	8507K65	Rubber Edge Trim Standard Style 4, 100 FT	\$54.000	1	\$54.00	18-Apr-17	20-Apr-17	2 days	
47	TSV	McMaster-Carr	8216T66	Made-to-Order Peel-and-Stick Message, 1-5 Characters, 1-1/2" High, "1234"	\$4.500	1	\$4.50	18-Apr-17	26-Apr-17	8 days	
47	TSI	McMaster-Carr	74945A69	Clear Silicone Sealant, Loctite® 59530, 2.7 oz. Tube	\$5.980	1	\$5.98	18-Apr-17	20-Apr-17	2 days	
47	Cabling	McMaster-Carr	7432K162	Spiral Bundling Wrap, UV-Resistant Polyethylene, 3/16" ID, 1/4" OD (25ft)	\$9.070	1	\$9.07	18-Apr-17	20-Apr-17	2 days	
47	Cabling	McMaster-Carr	7432K63	Spiral Bundling Wrap, UV-Resistant Polyethylene, 1/4" ID, 3/8" OD (25ft)	\$13.310	1	\$13.31	18-Apr-17	20-Apr-17	2 days	
47	Shipping / Tax / Misc	McMaster-Carr					\$6.36				
48	TSI	Home Depot	279782	3/4 in. Non-Metallic (NM) Twin-Screw Clamp Connectors (5-Pack)	\$4.210	2	\$8.42	19-Apr-17	19-Apr-17	0 days	
48	TSI	Home Depot	292514	1 in. Non-Metallic (NM) Twin-Screw Clamp Connector	\$1.610	1	\$1.61	19-Apr-17	19-Apr-17	0 days	
48	TSI	Home Depot	492405	Everbilt #8-32 x 3/4 in. Phillips Flat-Head Machine Screws (5-Pack)	\$1.180	2	\$2.36	19-Apr-17	19-Apr-17	0 days	
48	TSI	Home Depot	661872	3/8 in. Hex Bolt	\$0.200	6	\$1.20	19-Apr-17	19-Apr-17	0 days	
48	TSI	Home Depot	655449	3/8 in. Hex Nut	\$0.120	6	\$0.72	19-Apr-17	19-Apr-17	0 days	
48	Shipping / Tax / Misc	Home Depot					\$0.00				
49	TSI	Super Bright LEDs	PL-3S	Straight 3-Pin Plug for Trailer Lights and Truck Lights	\$1.490	1	\$1.49	20-Apr-17	25-Apr-17	5 days	
49	TSI	Super Bright LEDs	KC-65	PT Series Chrome Bezel with Hood	\$2.950	1	\$2.95	20-Apr-17	25-Apr-17	5 days	
49	Shipping / Tax / Misc	Super Bright LEDs					\$3.57				
50	Cabling	Wire Care	0462-201-16141	Female, Crimp 16 - 20 AWG	\$0.600	100	\$60.00	20-Apr-17	24-Apr-17	4 days	
50	Cabling	Wire Care	0460-202-16141	Male pin 16 - 20 AWG	\$0.593	100	\$59.30	20-Apr-17	24-Apr-17	4 days	
50	Shipping / Tax / Misc	Wire Care					\$7.99				
51	Cabling	Mouser	571-DT06-2S	Automotive Connectors DT Plug 2 Way	\$1.030	10	\$10.30	21-Apr-17	26-Apr-17	5 days	
51	Cabling	Mouser	571-W2-S	WEDGE LOCK FOR 2P PLUG HOUSING	\$0.105	10	\$1.05	21-Apr-17	26-Apr-17	5 days	
51	Cabling	Mouser	571-W6-S	WEDGE LOCK FOR 6P PLUG HOUSING	\$0.280	10	\$2.80	21-Apr-17	26-Apr-17	5 days	
51	Cabling	Mouser	571-DT04-6P	Automotive Connectors 6WAY RECEPTACLE	\$2.690	5	\$13.45	21-Apr-17	26-Apr-17	5 days	
51	TSI	Mouser	571-2008571-2	Pin & Socket Connectors 2 POS MICRO MNL, TOP LATCH, BL	\$0.181	10	\$1.81	21-Apr-17	26-Apr-17	5 days	
51	Shipping / Tax / Misc	Mouser					\$14.83				
52	GLV	McMaster-Carr	7565K47	Cable Holders, Adhesive-Back, for 9/16" Maximum Bundle Diameter (Pack of 25)	\$11.830	2	\$23.66	21-Apr-17	24-Apr-17	3 days	
52	Shipping / Tax / Misc	McMaster-Carr					\$5.32				
53	Cabling	Allied Electronics	DT06-6S	TE Connectivity DT06-6S (6 PIN FEMALE CONNECTOR)	\$2.440	10	\$24.40	24-Apr-17	26-Apr-17	2 days	
53	Shipping / Tax / Misc	Allied Electronics					\$25.98				
54	VSCADA	Amazon	B010Q588D4	SanDisk Ultra 64GB microSDXC UHS-I Card with Adapter, Grey/Red, Standard Packaging (SDSQUNC-064G-GN6MA)	\$21.990	1	\$21.99	24-Apr-17	26-Apr-17	2 days	
54	Cooling	Amazon		Arduino Uno R3 Microcontroller A000066	\$18.820	1	\$18.82	24-Apr-17	26-Apr-17	2 days	
54	Cooling	Amazon		Sparkfun CAN-BUS Shield for Arduino and compatibles	\$39.950	1	\$39.95	24-Apr-17	1-May-17	7 days	
54	Shipping / Tax / Misc	Amazon					\$2.64				

**Purchases - Organized by Purchase Order / Date Ordered**

Purchase Order	Subsystem / Budget Category	Vendor	Vendor PN	Description	Unit Price	Quantity	Total Price	Date Ordered	Date Received	Shipping Time	Notes
55	TSI	McMaster-Carr	7641K921	Modular DIN Rail-Mount Terminal Block, DIN 1 & 3, Standard, 5mm Width (Grey)	\$1.190	10	\$11.90	26-Apr-17	27-Apr-17	1 days	
55	TSI	McMaster-Carr	7641K925	Jumper for Standard DIN 1 & 3, 5mm Width Modular DIN Rail-Mount Terminal Block	\$8.350	3	\$25.05	26-Apr-17	27-Apr-17	1 days	
55	Shipping / Tax / Misc	McMaster-Carr					\$5.32				
56	TSI	StickerYou		Vinyl rectangular sticker, 6" x 2.25", Removable white vinyl (glossy), pages of stickers	\$8.490	2	\$16.98	1-May-17	TBD		Total was \$17.70 but has a \$1.70 coupon was applied in shipping category. Purchased to be received before the end of the semester but will not be received by FDD
56	Shipping / Tax / Misc	StickerYou					\$13.29				
57	Cabling	Mouser	571-776164-1	Automotive Connectors PLG 35 POS F/H BLK	\$10.700	3	\$32.10	4-May-17	5-May-17	1 days	
57	Cabling	Mouser	571-DT06-12SA	Automotive Connectors SZ 16 DT 12 WAY PLUG RoHS Compliant	\$5.080	5	\$25.40	4-May-17	5-May-17	1 days	
57	Cabling	Mouser	571-7708541	Automotive Connectors RECEPT CONTACT LOOSE	\$0.113	250	\$28.25	4-May-17	5-May-17	1 days	
57	Shipping / Tax / Misc	Mouser					\$54.09				
	Shipping / Tax / Misc			System Diagram Posters	\$10.000	5	\$50.00				
	Shipping / Tax / Misc			WBS Posters	\$10.000	3	\$30.00				
	GLV			L17_GLV_07_01 PCB Fabrication (2 masks each)	\$33.000	1	\$33.00				
	Shipping / Tax / Misc			L17_GLV_07_01 PCB Fabrication			\$46.50				
	TSI			L17_TSI_001_01 PCB Fabrication (2 masks each)	\$33.000	2	\$66.00				
	Shipping / Tax / Misc			L17_TSI_001_01 PCB Fabrication			\$46.32				
	TSV			PacMAN Fabrication (4 masks each)	\$66.000	2	\$132.00				
	Shipping / Tax / Misc			PacMAN Fabrication			\$46.32				
	Shipping / Tax / Misc			6 Posters for Poster Presentation	\$10.000	6	\$60.00				

**TOTAL                      5184                      \$7,407.24**