

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 1

**Requested By:** TSV (Emilie)  
**Requested Date:** 13-Feb-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 218-681-6674

#	Cust Ref	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	U1	AT90CAN128-16AU-ND	AT90CAN128-16AU	IC MCU 8BIT 128KB FLASH 64TQFP	5	\$7.5200	\$37.60	17-Feb-17
2	U2	ADM6320CY29ARJZ-R7CT-ND	ADM6320CY29ARJZ-R7	IC SUPERVISOR WATCHDOG SOT23-5	5	\$1.5400	\$7.70	17-Feb-17
3	U3	568-1074-1-ND	PCF8574AT/3,518	IC I/O EXPANDER I2C 8B 16SOIC	5	\$1.2200	\$6.10	17-Feb-17
4	U4	296-29034-1-ND	INA226AIDGSR	IC Monitor PWR/CURR BIDIR 10MSOP	5	\$3.4400	\$17.20	17-Feb-17
5	U5	296-38849-1-ND	ADS1115IDGSR	IC ADC 16BIT 860SPS LP 10MSOP	5	\$5.6500	\$28.25	17-Feb-17
6	U6	LTC3638EMSE#PBF-ND	LTC3638EMSE#PBF	IC REG BUCK ADJ 0.25A 16MSOP	5	\$7.7900	\$38.95	17-Feb-17
7	U7	811-2109-5-ND	NCS6S1205C	CONVERT DC/DC 6W 12VIN-5VOUT T/H	2	\$22.0000	\$44.00	17-Feb-17
8	U8	336-2048-5-ND	SI8600AC-B-IS	DGTL ISO 3.75KV 2CH I2C 8SOIC	5	\$3.3700	\$16.85	17-Feb-17
9	U9	NCP1117ST33T3GOSCT-ND	NCP1117ST33T3G	IC REG LDO 3.3V 1A SOT223	5	\$0.4600	\$2.30	17-Feb-17
10	U12	768-1007-1-ND	FT232RL-REEL	IC USB FS SERIAL UART 28-SSOP	5	\$4.5000	\$22.50	17-Feb-17
11	U13	TLP2361(V4-TPLECT-ND	TLP2361(V4-TPL,E	OPTOISO 3.75KV PSH PULL SQ6-5	5	\$1.1400	\$5.70	17-Feb-17
12	P1	A113982-ND	556881-4	CONN RCPT 4POS 11.18MM PCB SLDR	5	\$8.3000	\$41.50	17-Feb-17
13	P2, P6	WM1340-ND	15912025	CONN HEADER 2POS .100 R/A SMD	5	\$2.6100	\$13.05	17-Feb-17
14	P3	WM1344-ND	15912065	CONN HEADER 6POS .100 R/A SMD	5	\$4.2000	\$21.00	17-Feb-17
15	J1	ED2983-ND	USB-B1HSB6	CONN USB TYPE B R/A BLACK	10	\$0.5460	\$5.46	17-Feb-17
16	J2	182-37FE-ND	182-037-213R531	CONN D-SUB RCPT 37POS R/A SOLDER	3	\$3.2800	\$9.84	17-Feb-17
17	J3	WM3789CT-ND	855135002	CONN MOD JACK 6P6C VERT UNSHLD	3	\$1.1600	\$3.48	17-Feb-17
18	Q1, Q2, Q3, Q4	RRR015P03TLCT-ND	RRR015P03TL	MOSFET P-CH 30V 1.5A TSMT3	10	\$0.3960	\$3.96	17-Feb-17
19	R15, R16, R17, R18, R22, R26	P510BZCT-ND	ERJ-PA3J511V	RES SMD 510 OHM 5% 1/4W 0603	100	\$0.0340	\$3.40	17-Feb-17
20	R3	CSNL1206FT1L0OCT-ND	CSNL1206FT1L00	RES SMD 0.001 OHM 1% 1W 1206	10	\$0.5390	\$5.39	17-Feb-17
21	C30, C31, C32, C33, C35, C36	1276-1052-1-ND	CL21A106KPFNNE	CAP CER 10UF 10V X5R 0805	50	\$0.0736	\$3.68	17-Feb-17
22	C27, C9, C15, C12	1276-1854-1-ND	CL32A106KAULNNE	CAP CER 10UF 25V X5R 1210	100	\$0.0930	\$9.30	17-Feb-17
23	F1	BK-6010-ND	BK-6010	FUSE BLOCK BLADE PCB	10	\$0.4940	\$4.94	17-Feb-17
24	D15, D5, D6, D9, D18, D21, D19	SK310A-LTPMSCT-ND	SK310A-LTP	DIODE SCHOTTKY 100V 3A DO214AC	25	\$0.3284	\$8.21	17-Feb-17
25	Rly 2	PB1014-ND	T9AS1D12-5	RELAY GEN PURPOSE SPST 30A 5V	5	\$3.7800	\$18.90	17-Feb-17
26	U14	296-40579-1-ND	TCA9617BDGKR	IC V-LEVEL XLATR FM+ I2C 8VSSOP	5	\$1.0100	\$5.05	17-Feb-17

Subtotal	\$384.31
Shipping Fees	\$13.32
Grand Total:	\$397.63

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 2

**Requested By:** Cooling (Yi Han)  
**Requested Date:** 15-Feb-17  
**Ship By:** Ground

**Vendor:** SparkFun  
**Web Site:** <https://www.sparkfun.com/>  
**Phone:** 303-284-0979

#	Quantity	SparkFun SKU	Description	Unit Price	Total Price	Rcvd
1	1	DEV-13262	CAN-BUS Shield	\$24.95	\$24.95	21-Feb-17
2	1	DEV-11021	Arduino Uno - R3	\$24.95	\$24.95	21-Feb-17

Subtotal:	\$49.90
Shipping Fees:	\$9.10
Grand Total:	\$59.00

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 3

**Requested By:** Cooling (Yi Han)  
**Requested Date:** 16-Feb-17  
**Ship By:** Ground

**Vendor:** Koolance  
**Web Site** [www.koolance.com](http://www.koolance.com)  
**Phone** 253-249-7669

#	Koolance SKU	Description	Quantity	Unit Price	Total Price	Rcvd
1	NZL-LXG1	Fitting Elbow 1/4 BSPP	2	\$9.99	\$19.98	23-Feb-17
2	QD4-FS13X19	QD4 Female Compression 13 x 19	2	\$15.99	\$31.98	23-Feb-17
3	QD4-MSN38	QD4 Male to 3/8 NPT Male	2	\$12.49	\$24.98	23-Feb-17
4	ADT-XMM-BK	Male-Male G 1/4 BSPP	3	\$2.49	\$7.47	23-Feb-17
5	FIT-V13X19-BK	Compression 13X19 to 1/4 BSPP	4	\$6.74	\$26.96	23-Feb-17
6	INS-FM17N	Flow Meter	1	\$19.99	\$19.99	23-Feb-17
7	SEN-TPL010K	Temperature Sensor	2	\$19.99	\$39.98	23-Feb-17
8	TAP-CP002P	Temperature Sensor Tape	1	\$0.35	\$0.35	23-Feb-17
9	SEN-AP007P	Temperature Sensor, Flat, 10K Ohm	1	\$4.49	\$4.49	23-Feb-17
10	PMP-450S	PMP-450S Pump, ID 13mm	1	\$76.99	\$76.99	23-Feb-17
11	HX-720	Radiator, 2x120mm 30-FPI Copper	1	\$47.99	\$47.99	23-Feb-17
12	GRL-AP002P	Fan Grill, 120mm	2	\$2.49	\$4.98	23-Feb-17
13	CBL-CTR103P	3-4pin Molex Power Adapter	1	\$3.49	\$3.49	23-Feb-17

<b>Subtotal:</b>	\$309.63
<b>Shipping:</b>	\$12.39
<b>Grand Total:</b>	\$322.02

# ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 4

**Requested By:** Cooling (Yi Han)  
**Requested Date:** 16-Feb-17  
**Ship By:** Ground

**Vendor:** SparkFun  
**Web Site** [www.sparkfun.com](http://www.sparkfun.com)  
**Phone** 303-284-0979

#	SparkFun SKU	Description	Quantity	Unit Price	Total Price	Rcvd
1	LCD-09568	Serial Enabled 20x4 LCD - Black on Green 5V	1	\$29.95	\$29.95	22-Feb-17

<b>Subtotal:</b>	\$29.95
<b>Shipping:</b>	\$9.10
<b>Grand Total:</b>	\$39.05

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 5

**Requested By:** Cooling (Yi Han)  
**Requested Date:** 16-Feb-17  
**Ship By:** Ground

**Vendor:** Amazon  
**Web Site** [www.amazon.com](http://www.amazon.com)  
**Phone** 1 (888) 280-4331

#	Description	Quantity	Unit Price	Total Price	Rcvd
1	Asiahorse PWM Solar Eclipse-Ultra Quiet Bearing 120mm DC Led Fan for Computer Cases, Long Life CPU Coolers	1	\$20.99	\$20.99	22-Feb-17

<b>Subtotal:</b>	\$20.99
<b>Shipping Fees:</b>	\$8.51
<b>Grand Total:</b>	\$29.50

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 6

**Requested By:** TSI - Jack  
**Requested Date:** 2/17/2017  
**Ship By:** Ground

**Vendor:** EV west  
**Web Site:** <http://www.evwest.com>  
**Phone:** (888) 591-5830

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	GV200-QA	Gigavac GV200-QA EV Contactor - 4000 Amps Max - 48 Volt External Economizer PWM (Relay for motor controller)	1	\$114.88	\$114.88	24-Feb-17

Subtotal:	\$114.88
Shipping Fees:	\$12.28
Grand Total:	\$127.16

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 7/8

**Requested By:** GLV / TSI  
**Requested Date:** 21-Feb-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 218-681-6674

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	GLV	350-4050-ND	6823135141F	LED PANEL INDICATOR RED 24V	5	\$6.970	\$34.85	27-Feb-17
2	GLV	350-4053-ND	6823235142F	LED PANEL INDICATOR GREEN 24V	5	\$8.940	\$44.70	27-Feb-17
3	TSI	AT90CAN128-15AZCT-ND	AT90CAN128-15AZ	IC MCU 8BIT 128KB FLASH 64TQFP	1	\$12.89	\$12.89	27-Feb-17
4	TSI	PA0096-ND	PA0096	Breakout board to convert TQFP to DIP	1	\$15.79	\$15.79	27-Feb-17
5	TSI	MCP2551-I/P-ND	MCP2551-I/P	IC TRANSCEIVER CAN HI-SPD 8-DIP	1	\$1.05	\$1.05	27-Feb-17

Subtotal:	\$109.28
Shipping Fees:	\$8.99
Grand Total:	\$118.27

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 9

**Requested By:** Cabling (Jeremy)  
**Requested Date:** 1-Mar-17  
**Ship By:** Ground

**Vendor:** Mouser  
**Web Site:** <http://www.mouser.com/>  
**Phone:** 800-346-6873

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	571-DT06-3S	DT06-3S	Automotive Connectors 3WAY PLUG GRAY	15	\$1.220	\$18.30	3-Mar-17
2	571-1011-235-0405	1011-235-0405	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 4 connect	17	\$2.240	\$38.08	3-Mar-17
3	571-1011-231-0305	1011-231-0305	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 3 connect	11	\$3.500	\$38.50	3-Mar-17
4	571-1011-239-0605	1011-239-0605	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 6 connect	15	\$2.480	\$37.20	3-Mar-17
5	571-1011-245-0805	1011-245-0805	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 8 connect	10	\$3.880	\$38.80	3-Mar-17
6	571-1011-247-1205	1011-247-1205	Automotive Connectors 180 DEG STRAIGHT BACKSHELL 12 connect	6	\$3.360	\$20.16	3-Mar-17
7	571-DT06-8SA	DT06-8SA	Automotive Connectors see p/n DT06-08SA	10	\$7.440	\$74.40	3-Mar-17
8	571-DT06-12SA	DT06-12SA	Automotive Connectors SZ 16 DT 12 WAY PLUG	5	\$5.080	\$25.40	3-Mar-17
9	571-W8-S	W8-S	Automotive Connectors WEDGE LOCK FOR 8WAY PLUG	10	\$0.229	\$2.29	3-Mar-17
10	571-W12S	W12S	Automotive Connectors WEDGELOCK, DT, 12 WAY PLUG	10	\$0.306	\$3.06	3-Mar-17
11	571-DT06-2S	DT06-2S	Automotive Connectors DT Plug 2 Way	10	\$1.030	\$10.30	3-Mar-17
12	571-DT04-2P	DT04-2P	Automotive Connectors DT 2 WAY RECP	10	\$0.849	\$8.49	3-Mar-17
13	571-DT06-4S	DT06-4S	Automotive Connectors PLUG DT 4 WAY	10	\$1.490	\$14.90	3-Mar-17
14	571-DT04-4P	DT04-4P	Automotive Connectors DT 4 WAY RECP	10	\$1.440	\$14.40	3-Mar-17
15	571-W2-P	W2-P	Automotive Connectors WEDGE LOCK FOR 2P REC HOUSING	10	\$0.105	\$1.05	3-Mar-17

Subtotal:	\$345.33
Shipping:	\$9.49
Grand Total:	\$354.82



## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 10

**Requested By:** TSV (Emilie)  
**Requested Date:** 3/6/2017  
**Ship By:** Ground

**Vendor:** Sears  
**Web Site:** <http://www.sears.com/>  
**Phone:** (908) 859-9000

#	Item #	Model #	Description	Quantity	Unit Price	Total Price	Rcvd
1	00934555000P	34555	Craftsman 12 pc. Nutdriver Set in Zippered Case	1	\$39.99	\$39.99	9-Mar-17
2	00946298000P	46298	Craftsman 7 pc. Metric T-Handle Hex Key Set	1	\$20.00	\$20.00	9-Mar-17
3	00953155000P	35155	Craftsman 155-Piece Mechanics Tool Set with 75 Tooth Ratchets	1	\$79.99	\$79.99	9-Mar-17
4	SPM7696798322	TAM74047-GP	TAMIYA 74047 HG Angled Tweezers TAMR7447	1	\$21.37	\$21.37	20-Mar-17
5	00941633000P	56710C	Craftsman 10 pc. Screwdriver Set	1	\$24.99	\$24.99	9-Mar-17

Subtotal:	\$186.34
Shipping Fees:	\$0.00
Grand Total:	\$186.34

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 11

**Requested By:** TSV / TSI / GLV  
**Requested Date:** 6-Mar-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 218-681-6674

#	Team / Cust Ref	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSV/U10	296-13493-1-ND	SN74LVC2G06DCKR	IC INVERTER DUAL 1INPUT SC70-6	10	\$0.464	\$4.64	20-Mar-17
2	TSI	BKCT3134-2-ND	CT3134-2	DIY 4MM SHTH JACK-RED	1	\$3.000	\$3.00	20-Mar-17
3	TSI	BKCT3134-0-ND	CT3134-0	DIY 4MM SHTH JACK-BLACK	2	\$3.000	\$6.00	20-Mar-17
4	GLV	296-38571-1-ND	TMP275AIDGKR	SENSOR TEMPERATURE SMBUS 8VSSOP	5	\$3.430	\$17.15	20-Mar-17
5	GLV	Z2254-ND	G5LE-1A4 DC24	RELAY GEN PURPOSE SPST 10A 24V	5	\$1.300	\$6.50	20-Mar-17
6	GLV	296-34970-1-ND	TPS27081ADDCR	IC LOAD SW HIGH SIDE 6SOT	10	\$0.460	\$4.60	20-Mar-17
7	GLV	PB192-ND	W28-XQ1A-15	CIR BRKR THRM 15A 250VAC 32VDC	1	\$3.260	\$3.26	20-Mar-17
8	GLV	PB189-ND	W28-XQ1A-8	CIR BRKR THRM 8A 250VAC 32VDC	1	\$3.260	\$3.26	20-Mar-17
9	GLV	GH1367-ND	30-601 BLK	SWITCH PUSH SPST-NO 0.15A 5V	2	\$3.040	\$6.08	20-Mar-17
10	GLV	GH1368-ND	30-601 RED	SWITCH PUSH SPST-NO 0.15A 5V	2	\$3.040	\$6.08	20-Mar-17

<b>Subtotal:</b>	\$60.57
<b>Tax / Shipping:</b>	\$8.99
<b>Grand Total:</b>	\$69.56

## ECE Department Material Request

Course: ECE 492  
Professor: Nadovich/Schmult

Req Number: 12

Requested By: Cabling (Jeremy)  
Requested Date: 7-Mar-17  
Ship By: Ground

Vendor: Wire and Cable Your Way  
Web Site: [www.wireandcableyourway.com](http://www.wireandcableyourway.com)  
Phone: 855-880-8010

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	SJO16s2	16/2 SJOOW Portable Cord 300V UL/CSA	50	\$0.25	\$12.50	10-Mar-17
2	SJO12s3	12/3 SJOOW Portable Cord 300V UL/CSA	65	\$0.62	\$40.30	10-Mar-17
3	SOO16s12	16/12 SOOW Portable Cord 600V UL/CSA	15	\$1.58	\$23.70	10-Mar-17
4	SOO16s8	16/8 SOOW Portable Cord 600V UL/CSA	30	\$0.98	\$29.40	10-Mar-17
5	GXL20	20 AWG GXL Automotive Primary Wire, 500' or 1000' Spool (Red)	1	\$22.00	\$22.00	10-Mar-17

Subtotal:	\$127.90
Shipping Fees:	\$29.00
Grand Total:	\$156.90

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 13

**Requested By:** IC (Jeremy)  
**Requested Date:** 7-Mar-17  
**Ship By:** Ground

**Vendor:** Mouser  
**Web Site:** <http://www.mouser.com/>  
**Phone:** 800-346-6873

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	571-DT04-2P-L012	DT04-2P-L012	Automotive Connectors DT RECP ASM RoHS Compliant	10	\$3.170	\$31.70	20-Mar-17
2	571-W2-P	W2-P	Automotive Connectors WEDGE LOCK FOR 2P RECHOUSING RoHS Compliant	20	\$0.105	\$2.10	20-Mar-17
3	571-DT04-3P-L012	DT04-3P-L012	Automotive Connectors DT 3WAY RECEPTACLE FLANGE MOUNT RoHS Compliant	5	\$4.770	\$23.85	20-Mar-17
4	571-W3-P	W3-P	Automotive Connectors WEDGE LOCK FOR 3WAY REC HSNG RoHS Compliant	10	\$0.126	\$1.26	20-Mar-17
5	571-W3-S	W3-S	Automotive Connectors WEDGE LOCK FOR 3WAY PLUG RoHS Compliant	10	\$0.126	\$1.26	20-Mar-17
6	571-DT04-4P-L012	DT04-4P-L012	Automotive Connectors SZ 4 WAY RECP DT FLANGE MOUNT RoHS Compliant	5	\$5.140	\$25.70	20-Mar-17
7	571-DT04-6P-CL09	DT04-6P-CL09	Automotive Connectors DT RECP ASM RoHS Compliant	10	\$21.240	\$212.40	20-Mar-17
8	571-DT06-6S	DT06-6S	Automotive Connectors PLUG DT 6 WAY RoHS Compliant	5	\$2.570	\$12.85	20-Mar-17
9	571-W8-P	W8-P	Automotive Connectors WEDGE LOCK FOR 8WAY REC RoHS Compliant	10	\$0.255	\$2.55	20-Mar-17
10	571-DT04-12PA-L012	DT04-12PA-L012	Automotive Connectors DT 12 WAY REC W/ FLANGE RoHS Compliant	5	\$8.510	\$42.55	20-Mar-17
11	571-W12P	W12P	Automotive Connectors WEDGELOCK DT 12 WAY RECP RoHS Compliant	10	\$0.280	\$2.80	20-Mar-17
12	571-114017	114017	Automotive Connectors SEALING PLUG SZ 12-16 RoHS Compliant	50	\$0.482	\$24.10	20-Mar-17
13	571-160001	160001	Terminals TERM,SOLIS R 2/0 M10 RoHS Compliant	15	\$3.370	\$50.55	20-Mar-17
14	571-323127	323127	Terminals SPADE 22-16AWG 6 RoHS Compliant	100	\$0.177	\$17.70	20-Mar-17
15	571-2-520184-2	2-520184-2	Terminals INSULATED RECP 22-18 .250 x .032 RoHS Compliant	100	\$0.180	\$18.00	20-Mar-17
16	571-25201032	2-520103-2	Terminals TAB 22-18AWG .250 .250 x .032 RoHS Compliant	100	\$0.177	\$17.70	20-Mar-17
17	571-776164-1	776164-1	Automotive Connectors PLG 35 POS F/H BLK	2	\$10.700	\$21.40	20-Mar-17
18	571-7708541	770854-1	Automotive Connectors RECEPT CONTACT LOOSE	100	\$0.128	\$12.80	20-Mar-17
19	571-776463-1	776463-1	Automotive Connectors WIRE RELIEF, PLUG 35 POS	2	\$3.060	\$6.12	20-Mar-17

Subtotal:	\$527.39
Shipping Fees:	\$14.24
Grand Total:	\$541.63

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 14

**Requested By:** Cooling (Yi)  
**Requested Date:** 8-Mar-17  
**Ship By:** Ground

**Vendor:** Amazon  
**Web Site** [www.amazon.com](http://www.amazon.com)  
**Phone** 1 (888) 280-4331

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
1	1	Reservoir	Swiftech MCRES Micro Revision 2 Reservoir	\$27.99	\$27.99	20-Mar-17
2	1	Hose Clamps	Precision Brand M12S Micro Seal 9/16 inches	\$14.46	\$14.46	20-Mar-17

Subtotal:	\$42.45
Shipping Fees	\$2.55
Grand Total:	\$45.00

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 15

**Requested By:** IC (Jeremy)  
**Requested Date:** 8-Mar-17  
**Ship By:** Ground

**Vendor:** Brady  
**Web Site:** <https://www.bradyid.com/>  
**Phone:** 1-888-250-3082

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	BMP21-PLUS-KIT1	139537	BMP21-PLUS Printer Kit	1	\$195.00	\$195.00	20-Mar-17
2	M21-250-C-342	110925	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	1	\$57.19	\$57.19	20-Mar-17
3	M21-375-C-342	110926	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	1	\$64.39	\$64.39	20-Mar-17

Shipping Fees	\$316.58
Shipping Fees	\$14.03
<b>Grand Total:</b>	<b>\$330.61</b>

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 16

**Requested By:** GLV (Joe)  
**Requested Date:** 8-Mar-17  
**Ship By:** Ground

**Vendor:** EV West  
**Web Site:** <http://www.evwest.com>  
**Phone:** (888) 591-5830

#	Description	Quantity	Unit Price	Total Price	Rcvd
1	First Technology Inertia Switch - 360 degree Resettable Crash Sensors	1	\$52.80	\$52.80	20-Mar-17

Shipping Fees	\$52.80
Shipping Fees	\$12.28
Grand Total:	\$65.08

## ECE Department Material Request

Course: ECE 492  
Professor: Nadovich/Schmult

Req Number: 17

Requested By: Cabling (Larisa)  
Requested Date: 9-Mar-17  
Ship By: Ground

Vendor: Grainger  
Web Site: <https://www.grainger.com/>  
Phone: 1-800-472-4643

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	25D147	2006	19-1/2"L Crimper, 6 to 4/0 AWG	1	\$215.40	\$215.40	10-Mar-17

Subtotal:	\$215.40
Shipping Fees:	\$0.00
Grand Total:	\$215.40



## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 18

**Requested By:** GLV(Chris)  
**Requested Date:** 9-Mar-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 218-681-6674

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	ADS7823E/25OCT-ND	ADS7823E/250	IC 12-BIT LP A/D CONV 8VSSOP	3	\$7.6500	\$22.95	20-Mar-17
2	LTC2631ITS8-LM12#TRMPBFCT- ND	LTC2631ITS8-LM12#TRMPBF	IC DAC 12BIT VOUT TSOT23-8	2	\$4.2800	\$8.56	20-Mar-17
3	350-2645-ND	50747573731500F	LED PANEL IND 5V 15MA RED	3	\$6.1300	\$18.39	20-Mar-17
4	RMCF0805JT10KOCT-ND	RMCF0805JT10K0	RES SMD 10K OHM 5% 1/8W 0805	100	\$0.0061	\$0.61	20-Mar-17
5	RMCF0805JT12ORCT-ND	RMCF0805JT120R	RES SMD 120 OHM 5% 1/8W 0805	100	\$0.0061	\$0.61	20-Mar-17
6	RNCF0805TKY25ORCT-ND	RNCF0805TKY250R	RES SMD 250 OHM 0.01% 1/8W 0805	10	\$1.8150	\$18.15	20-Mar-17
7	311-100CRCT-ND	RC0805FR-07100RL	RES SMD 100 OHM 1% 1/8W 0805	100	\$0.0077	\$0.77	20-Mar-17
8	P1.0KADCT-ND	ERJ-P06J102V	RES SMD 1K OHM 5% 1/2W 0805	25	\$0.0684	\$1.71	20-Mar-17
9	SK310A-LTPMSCT-ND	SK310A-LTP	DIODE SCHOTTKY 100V 3A DO214AC	10	\$0.4000	\$4.00	20-Mar-17
10	CSNL1206FT1L0OCT	CSNL1206FT1L00	RES SMD 0.001 OHM 1% 1W 1206	50	\$0.4158	\$20.79	20-Mar-17

<b>Subtotal:</b>	\$96.54
<b>Shipping:</b>	\$8.99
<b>Grand Total:</b>	\$105.53

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 19

**Requested By:** TSV (Emilie)  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** Mouser  
**Web Site:** [www.mouser.com](http://www.mouser.com)  
**Phone:** (800) 346-6873

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	879-1827G1-BK	1827G1-BK	Heavy Duty Power Connectors PP15/45 PREMATE HSG ONLY GRN -BULK	5	\$0.49	\$2.45	28-Mar-17
2	879-115G1	115G1	Heavy Duty Power Connectors PP PAK-2-4P HDWE PAK-CABLE	5	\$1.32	\$6.60	28-Mar-17
3	879-110G9	110G9	Heavy Duty Power Connectors SNAP-IN RECEPTACLE RETAINING PINS	25	\$0.20	\$5.00	28-Mar-17
4	879-1470G1	1470G1	Heavy Duty Power Connectors PP PAK 2-4P HSG SNAP-IN RECEPT	5	\$2.94	\$14.70	28-Mar-17
5	879-1460G1	1460G1	Heavy Duty Power Connectors PP PAK 2-4P HSG-PLUG W/LATCH	3	\$2.03	\$6.09	28-Mar-17
6	636-983-037-020R121	983-037-020R121	D-Sub Backshells 37P STRAIGHT SNAP METALIZED PLASTIC	8	\$3.80	\$30.40	28-Mar-17

Subtotal:	\$65.24
Tax / Shipping:	\$7.99
Grand Total:	\$73.23

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 20

**Requested By:** GLV / TSV  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 218-681-6674

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	GLV	AD5593RBRUZ-ND	AD5593R	8 Channel, ADC/DAC Chip	3	\$7.90	\$23.70	28-Mar-17
2	GLV	MCP6004T-I/STCT-ND	MCP6004	Quad Op Amp	5	\$0.45	\$2.25	28-Mar-17
3	GLV	BSS84CT-ND	BSS84	MOSFET P-CH 50V 130MA SOT-23	10	\$0.19	\$1.94	28-Mar-17
4	GLV	Z1013-ND	G5LE-14 DC24	Single Pole Double Throw 24V Relay	4	\$1.33	\$5.32	28-Mar-17
5	TSV	LT1307BCS8#PBF-ND	LT1307BCS8#PBF	IC REG BOOST ADJ 0.6A 8SOIC	10	\$4.15	\$41.50	28-Mar-17

Subtotal:	\$74.71
Tax / Shipping:	\$8.99
Grand Total:	\$83.70

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 21

**Requested By:** IC (Larisa)  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** Newark  
**Web Site:** [www.newark.com](http://www.newark.com)  
**Phone:** 1 800 463 9275

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	77R3075	DT048P-CL06	RECEPTACLE, FLANGE, 8 POSITION, PIN	4	\$9.44	\$37.76	27-Mar-17

Subtotal:	\$37.76
Shipping Fees:	\$5.00
Grand Total:	\$42.76

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 22

**Requested By:** IC (Larisa)  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** Wire Care  
**Web Site:** [www.wirecare.com](http://www.wirecare.com)  
**Phone:** 973-300-9782

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	0462-201-16141	Female, Crimp 16 - 20 AWG	200	\$0.336	\$67.20	28-Mar-17
2	0460-202-16141	Male pin 16 - 20 AWG	200	\$0.593	\$118.60	28-Mar-17

Subtotal:	\$185.80
Shipping Fees	\$8.99
Grand Total:	\$194.79

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 23

**Requested By:** IC (Jeremy)  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** Cable Ties And More  
**Web Site:** <http://www.cabletiesandmore.com/>  
**Phone:** 1-877-284-7760

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	HSK3-1-KIT-BK	3:1 Shrink Black 6 sizes, 110 pcs 6" Length	1	\$42.280	\$42.28	
2	WL923	3/4" Diameter Split Wire Loom 100' Roll	1	\$16.50	\$16.50	

Subtotal:	\$58.78
Shipping Fees:	
Grand Total:	

Instructor Approval: \_\_\_\_\_

URL: <http://www.cabletiesandmore.com/american/catalog/shrink-black-sizes-length-p-9971.php>  
<http://www.cabletiesandmore.com/american/catalog/inside-diameter-split-wire-loom-black-roll-p-187.php>

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 24

**Requested By:** IC (Larisa)  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** Allied Electronics  
**Web Site:** <http://www.alliedelec.com/>  
**Phone:** 1 (866) 433-5722

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	571-1011-267-0605	1011-267-0605	DT BACKSHELL 180 6way plug, DT06-6S	20	\$2.08	\$41.60	28-Mar-17

Subtotal:	\$41.60
Shipping Fees:	\$14.14
Grand Total:	\$55.74

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 25

**Requested By:** IC (Jeremy)  
**Requested Date:** 23-Mar-17  
**Ship By:** Ground

**Vendor:** AutomationDirect  
**Web Site:** <https://www.automationdirect.com>  
**Phone:** (800) 633-0405

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	29892469184	Type MTW wire, 20 AWG, 10-strand, bare copper, red insulation, 600V, 500 ft spool. Alternate part ID: 029892469184.	1	\$25.000	\$25.00	27-Mar-17

Shipping Fees	\$25.00
Shipping Fees	\$6.00
<b>Grand Total:</b>	<b>\$31.00</b>



## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 26

**Requested By:** TSV (Emilie)  
**Requested Date:** 28-Mar-17  
**Ship By:** Ground

**Vendor:** AA Portable Power Corp  
**Web Site:** [www.batteryspace.com](http://www.batteryspace.com)  
**Phone:** (510) 525-2328

#	Product ID	Part Number	Description	Quantity	Unit Price	Total Price	Rcvd
1	6334	LFP-G60	LiFeMnPO4 Prismatic Module: 3.2V 60 Ah, 10C Rate (192 wh) - UN38.3 Passed	3	\$96.75	\$290.25	5-Apr-17

Subtotal:	\$290.25
Tax / Shipping:	\$30.70
Grand Total:	\$320.95

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 27

**Requested By:** GLV (Joe)  
**Requested Date:** 29-Mar-17  
**Ship By:** Ground

**Vendor:** Amazon  
**Web Site:** [www.amazon.com](http://www.amazon.com)  
**Phone:** 1 (888) 280-4331

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	PZEM-031	Digital Display Multimeter	1	\$14.99	\$14.99	5-Apr-17

Subtotal:	\$14.99
Shipping Fees:	\$5.01
Grand Total:	\$20.00

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 28

**Requested By:** GLV (Chris)  
**Requested Date:** 29-Mar-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 1-800-344-4539

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	102-2927-ND	PYB20-Q24-S5	DC/DC CONVERTER 5V 20W	1	\$33.85000	\$33.85	3-Apr-17
2	AE10921-ND	A-DF 09 A/KG-T2S	CONN D-SUB RCPT 9POS R/A SOLDER	1	\$0.77000	\$0.77	3-Apr-17
3	399-1170-1-ND	C0805C104K5RACTU	CAP CER 0.1UF 50V X7R 0805	1000	\$0.01328	\$13.28	3-Apr-17

Subtotal:	\$47.90
Tax / Shipping:	\$8.99
Grand Total:	\$56.89

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 29

**Requested By:** TSV & GLV  
**Requested Date:** 29-Mar-17  
**Ship By:** Ground

**Vendor:** McMaster  
**Web Site:** <https://www.mcmaster.com/>  
**Phone:** 218-681-6674

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSV	90272A087	90272A087	Steel Phillips Rounded Head Screws, 2-56 Thread Size, 1-1/4" long (FOR AMS BOARD HEAT SINKS)	1	\$5.98	\$5.98	30-Mar-17
2	TSV	90631A003	90631A003	Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 2-56 thread size (FOR AMS BOARD HEAT SINKS)	1	\$3.37	\$3.37	30-Mar-17
3	GLV	95185A105	95185A105	Press Fit Nuts for sheet metal (2-56)	1	\$9.40	\$9.40	30-Mar-17
4	GLV	95185A185	95185A185	Press Fit Nuts for sheet metal (10-32)	1	\$6.26	\$6.26	30-Mar-17
5	GLV	94639A703	94639A703	Nylon unthreaded spacers (2)	1	\$7.51	\$7.51	30-Mar-17
6	GLV	94639A351	94639A351	Nylon unthreaded spacers (10)	1	\$7.68	\$7.68	30-Mar-17
7	GLV	90272A079	90272A079	Steel Phillips Screws 2-56	1	\$3.28	\$3.28	30-Mar-17
8	GLV	90272A827	90272A827	Steel Phillips Screws 10-32	1	\$3.95	\$3.95	30-Mar-17

Subtotal:	\$47.43
Shipping Fees	\$5.32
Grand Total:	\$52.75

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 30

**Requested By:** TSI & TSV  
**Requested Date:** 29-Mar-17  
**Ship By:** Ground

**Vendor:** Mouser  
**Web Site:** <http://www.mouser.com/>  
**Phone:** 218-681-6674

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSI	600-CANOP	CANOP	Interface Modules CAN OPTICAL REPEATER W/TB	1	\$209.00	\$209.00	3-Apr-17
2	TSV	567-657-10ABPE	657-10ABPE	Heat Sinks HI PERF VERT Board MTG TO220/227/218 RoHS Compliant (FOR AMS BOARD)	29	\$1.04	\$30.16	3-Apr-17

Subtotal:	\$239.16
Shipping Fees:	\$8.74
Grand Total:	\$247.90

# ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 31

**Requested By:** TSV (Emilie)  
**Requested Date:** 29-Mar-17  
**Ship By:** Ground

**Vendor:** Newark - Element14  
**Web Site:** [www.newark.com](http://www.newark.com)  
**Phone:** 1-800-463-9275

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	44f8409	58495-1	Crimp Tool, Hand, AMP 28-16 AWG, Contacts	1	\$185.710	\$185.71	31-Mar-17

Subtotal:	\$185.71
Shipping Fees:	\$0.00
Grand Total:	\$185.71

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 32

**Requested By:** TSV (Emilie)  
**Requested Date:** 29-Mar-17  
**Ship By:** Ground

**Vendor:** Powerwerx  
**Web Site:** [www.powerwerx.com](http://www.powerwerx.com)  
**Phone:** 888-321-0073

#	Vendor SKU	Description	Quantity	Unit Price	Total Price	Rcvd
1	TRlcrimp	TRlcrimp, the best crimping tool for Powerpole for 15, 30 and 45 amp contacts	1	\$39.99	\$39.99	5-Apr-17

Subtotal:	\$39.99
Shipping Fees:	\$12.78
Grand Total:	\$52.77

## ECE Department Material Request

Course: ECE 492  
Professor: Nadovich/Schmult

Req Number: 33

Requested By: TSI (Rachel)  
Requested Date: 30-Mar-17  
Ship By: Ground

Vendor: Digikey  
Web Site: <http://www.digikey.com/>  
Phone: 218-681-6674

#	Ref	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	U13	102-3865-ND	PDO10-Q24-S5-D	DC/DC CONVERTER 5V 10W	2	\$25.8200	\$51.64	5-Apr-17
2	U1	102-2728-ND	PDM2-S24-S12-S	CONVERT DC/DC 2W 12V 167MA OUT	2	\$5.7100	\$11.42	5-Apr-17
3	SW1	1715-1676-1-ND	1.14100.5030000	SWITCH PUSH SPST-NO 0.1A 42V	3	\$2.4000	\$7.20	5-Apr-17
4	SW2	296-39512-1-ND	TSSA3159QDBVRQ1	IC ANLG SW SPDT SOT23-6	3	\$0.9800	\$2.94	5-Apr-17
5	U8	296-40259-1-ND	LM95071QIMFX/NOPB	IC GATE NAND 1CH 8-INP 14-SOIC	3	\$2.2800	\$6.84	5-Apr-17
6	U4	296-4180-1-ND	74ACT11030DR	SENSOR TEMPERATURE SPI SOT23-5	3	\$2.9000	\$8.70	5-Apr-17
7	R44	311-120CRCT-ND	RC0805FR-07120RL	RES SMD 120 OHM 1% 1/8W 0805	25	\$0.0136	\$0.34	5-Apr-17
8	R70	311-47.0KCRCT-ND	RC0805FR-0747KL	RES SMD 47K OHM 1% 1/8W 0805	25	\$0.0136	\$0.34	5-Apr-17
9	C5, C6	399-1108-1-ND	C0805C100J5GACTU	CAP CER 10PF 50V NPO 0805	25	\$0.0532	\$1.33	5-Apr-17
10	SW3	401-2001-ND	JS202011CQN	SWITCH SLIDE DDPDT 300MA 6V	5	\$0.4100	\$2.05	5-Apr-17
11	D3	475-1278-1-ND	LS R976-NR-1	LED RED DIFFUSED 0805 SMD	10	\$0.1900	\$1.90	5-Apr-17
12	D1	475-1410-1-ND	LG R971-KN-1	LED GREEN DIFFUSED 0805 SMD	10	\$0.1800	\$1.80	5-Apr-17
13	D2	475-2560-1-ND	LY R976-PS-36	LED YELLOW DIFFUSED 0805 SMD	10	\$0.2530	\$2.53	5-Apr-17
14	C10, C11, C19	490-10515-1-ND	GRM21BR6YA106ME43L	CAP CER 10UF 35V X5R 0805	10	\$0.2510	\$2.51	5-Apr-17
15	C24	490-3550-1-ND	GRM55DR72E105KW01L	CAP CER 1UF 250V X7R 2220	3	\$0.8500	\$2.55	5-Apr-17
16	C4	490-6538-1-ND	GRM32ER61C476KE15K	CAP CER 47UF 16V X5R 1210	3	\$0.8600	\$2.58	5-Apr-17
17	U6, U18	497-10252-1-ND	TS9121YDT	IC OPAMP GP 1.4MHZ RRO 8SO	6	\$1.5400	\$9.24	5-Apr-17
18	U22	497-2271-1-ND	TS3721DT	IC COMP LP DUAL CMOS VOLT 8 SOIC	4	\$0.6200	\$2.48	5-Apr-17
19	D4	516-1445-1-ND	HSMR-C170	LED BLUE DIFFUSED 0805 SMD	10	\$0.6930	\$6.93	5-Apr-17
20	U19, U20	516-2578-5-ND	ACPL-C870-000E	IC OPAMP ISOLATION 100KHZ 8SO	4	\$5.3900	\$21.56	5-Apr-17
21	C3	587-1293-1-ND	EMK212BJ225KG-T	CAP CER 2.2UF 16V X5R 0805	10	\$0.1140	\$1.14	5-Apr-17
22	L1	587-2004-1-ND	NR8040T101M	FIXED IND 100UH 1A 377 MOHM SMD	3	\$0.6000	\$1.80	5-Apr-17
23	CON1	609-4054-ND	20021521-00010T1LF	CONN HEADER 10POS DUAL SHRD SMD	2	\$1.1100	\$2.22	5-Apr-17
24	Y1	887-1741-1-ND	7A-10.000MAAE-T	CRYSTAL 10.0000MHZ 12PF SMD	3	\$0.6600	\$1.98	5-Apr-17
25	P1	A113980-ND	556881-2	CONN RCPT 2POS 11.18MM PCB SLDR	2	\$7.1300	\$14.26	5-Apr-17
26	U7	AT90CAN128-16AURCT-ND	AT90CAN128-16AUR	IC MCU 8BIT 128KB FLASH 64TOFP	3	\$7.6600	\$22.98	5-Apr-17
27	U16	LTC3638EMSE#PBF-ND	LTC3638EMSE#PBF	IC REG BUCK ADJ 0.25A 16MSOP	3	\$7.7900	\$23.37	5-Apr-17
28	U10	MCP2551-I/SN-ND	MCP2551-I/SN	IC TRANSCEIVER CAN HI-SPD 8-SOIC	3	\$1.0500	\$3.15	5-Apr-17
29	U21	MCP6001T-I/OTCT-ND	MCP6001T-I/OT	IC OPAMP GP 1MHZ RRO SOT23-5	4	\$0.2500	\$1.00	5-Apr-17
30	U2	MCP6002T-I/SNCT-ND	MCP6002T-I/SN	IC OPAMP GP 1MHZ RRO 8SOIC	4	\$0.3400	\$1.36	5-Apr-17
31	U3, U17	MCP6004T-I/SLCT-ND	MCP6004T-I/SL	IC OPAMP GP RRO 1MHZ 14-SOIC	6	\$0.4500	\$2.70	5-Apr-17
32	Q2, Q3	MMBF170CT-ND	MMBF170	MOSFET N-CH 60V 500MA SOT-23	10	\$0.2590	\$2.59	5-Apr-17
33	R37	P1.00KCCT-ND	ERJ-6ENF1001V	RES SMD 1K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
34		P10.0KCCT-ND	ERJ-6ENF1002V	RES SMD 10K OHM 1% 1/8W 0805	100	\$0.0148	\$1.48	5-Apr-17
35	R24, R30	P100KCCT-ND	ERJ-6ENF1003V	RES SMD 100K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
36	R10, R36	P137KCCT-ND	ERJ-6ENF1373V	RES SMD 137K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
37	R77	P196KCCT-ND	ERJ-6ENF1960V	RES SMD 196 OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
38	R25, R26	P2.00KCCT-ND	ERJ-6ENF2001V	RES SMD 2K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
39	R32, R34	P4.75KCCT-ND	ERJ-6ENF4751V	RES SMD 4.75K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
40	R33, R79, R81, R82, R83	P499DACT-ND	ERA-6AEB4990V	RES SMD 499 OHM 0.1% 1/8W 0805	25	\$0.2096	\$5.24	5-Apr-17
41	R1, R9	P665KCCT-ND	ERJ-6ENF6653V	RES SMD 665K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
42	R76	P750KCCT-ND	ERJ-6ENF7503V	RES SMD 750K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
43	R38, R80	P9.31KCCT-ND	ERJ-6ENF9311V	RES SMD 9.31K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
44	D5	SK310A-LTPMSCT-ND	SK310A-LTP	DIODE SCHOTTKY 100V 3A DO214AC	4	\$0.6000	\$2.40	5-Apr-17
45	U11, U12, U23, U24, U27, U9	TLP293(GB-TPLECT-ND	TLP293(GB-TPL.E	OPTOISOLATOR 3.75KV TRANS 4-SO	25	\$0.3080	\$7.70	5-Apr-17
46	P2	WM14741-ND	906631201	QF50 SRD HDR VT .1AU 20POS	2	\$2.3100	\$4.62	5-Apr-17
47	J5	WM3789CT-ND	855135002	CONN MOD JACK 6P6C VERT UNSHLD	2	\$1.1600	\$2.32	5-Apr-17
48	J1	WM4128-ND	705430112	CONN HEADER 8POS .100 VERT 30AU	2	\$1.8800	\$3.76	5-Apr-17
49	J4	WM4802-ND	705430003	CONN HEADER 4POS .100 VERT GOLD	2	\$0.9400	\$1.88	5-Apr-17
50	P3	WM8632-ND	905711141	CONN HEADER 14POS 2.54MM VERT	2	\$2.4000	\$4.80	5-Apr-17
51	JP1	Z5375-ND	XGBV-0331	JUMPER PLUG 3POS SING ROW	4	\$0.2600	\$1.04	5-Apr-17
52	Q1	ZVP4525GCT-ND	ZVP4525GTA	MOSFET P-CH 250V 0.265A SOT223	4	\$0.7100	\$2.84	5-Apr-17
53	U5	LM7810ACT-ND	LM7810ACT	IC REG LDO 10V 1A TO220-3	4	\$0.6400	\$2.56	5-Apr-17
54	R12, R15, R27	311-150CRCT-ND	RC0805FR-07150RL	RES SMD 150 OHM 1% 1/8W 0805	50	\$0.0104	\$0.52	5-Apr-17
55	C28, C29, C30, C41, C46, C47	399-1122-1-ND	C0805C101J5GACTU	CAP CER 100PF 50V NPO 0805	25	\$0.0368	\$0.92	5-Apr-17
56	R61, R65, R67, R68	P150KCCT-ND	ERJ-6ENF1503V	RES SMD 150K OHM 1% 1/8W 0805	50	\$0.0200	\$1.00	5-Apr-17
57	R45, R47, R49, R53	P16KACT-ND	ERJ-6GEYJ163V	RES SMD 16K OHM 5% 1/8W 0805	50	\$0.0136	\$0.68	5-Apr-17
58	R54, R55, R58, R64, R66	P24.9KCCT-ND	ERJ-6ENF2492V	RES SMD 24.9K OHM 1% 1/8W 0805	50	\$0.0200	\$1.00	5-Apr-17
59	R16, R19, R2, R20, R51	P249KCCT-ND	ERJ-6ENF2493V	RES SMD 249K OHM 1% 1/8W 0805	50	\$0.0200	\$1.00	5-Apr-17
60	R71, R72, R73, R74	P330CCT-ND	ERJ-6ENF3300V	RES SMD 330 OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	5-Apr-17
61		350-4050-ND	6823135141F	LED PANEL INDICATOR RED 24V	3	\$6.9700	\$20.91	5-Apr-17
62		350-4053-ND	6823235142F	LED PANEL INDICATOR GREEN 24V	3	\$8.9400	\$26.82	5-Apr-17

Subtotal:	\$325.52
Shipping/Tax:	\$14.99
Grand Total:	\$340.51



## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 34

**Requested By:** TSV (Emilie)  
**Requested Date:** 30-Mar-17  
**Ship By:** Ground

**Vendor:** DFRobot  
**Web Site:** [www.dfrobot.com](http://www.dfrobot.com)  
**Phone:** 86-21-61620183

#	Vendor SKU	Description	Quantity	Unit Price	Total Price	Rcvd
1	DFR0154	I2C 20x4 Arduino LCD Display Module	2	\$23.000	\$46.00	5-Apr-17

Subtotal:	\$46.00
Shipping Fees:	\$12.00
Grand Total:	\$58.00

## ECE Department Material Request

<b>Course:</b> ECE 492 <b>Professor:</b> Nadovich/Schmult
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<b>Req Number:</b> 35
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<b>Requested By:</b> IC (Jeremy) <b>Requested Date:</b> 30-Mar-17 <b>Ship By:</b> Ground
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<b>Vendor:</b> IEWC <b>Web Site:</b> <a href="http://www.iewc.com/">http://www.iewc.com/</a> <b>Phone:</b> 877-613-4392
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#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	EXRAD2/0-XLEOBS	Single-Shielded Double-Insulated Cable EXRAD2/0-XLEOBS-5 (2/0 1254B IRRAD EXTRAD OBS 150C 600V ORG) quote# 20387303	30 feet	\$10.00	\$300.00	5-Apr-17

Subtotal:	\$300.00
Shipping Fees:	\$15.00
Grand Total:	\$315.00

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 36

**Requested By:** IC (Larisa)  
**Requested Date:** 30-Mar-17  
**Ship By:** Ground

**Vendor:** Newark - Element14  
**Web Site:** [www.newark.com](http://www.newark.com)  
**Phone:** 9275

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	44W4336	NLDFT-N-BL-L-S120-M40A	ITT CANNON LINE DRAIN, NEUTRAL, BLUE, 400A	2	\$56.41	\$112.82	10-Apr-17
2	44W4346	NLS-N-BL-S120-M40A	ITT CANNON LINE SOURCE, NEUTRAL, BLUE, 400A	1	\$56.90	\$56.90	10-Apr-17
3	64W3407	A00602825	VEAM REDUCTION SLEEVE R70	3	\$10.590	\$31.77	5-Apr-17

Subtotal:	\$201.49
Shipping Fees:	\$0.00
Grand Total:	\$201.49

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 37

**Requested By:** TSV (Emilie)  
**Requested Date:** 5-Apr-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com/>  
**Phone:** 218-681-6674

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	PWR220T-20-R750F-ND	PWR220T-20-R750F	RES 0.75 OHM 20W 1% TO220	5	\$4.000	\$20.00	10-Apr-17
2	MBR0520LCT-ND	MBR0520L	DIODE SCHOTTKY 20V 500MA SOD123	20	\$0.295	\$5.90	10-Apr-17
3	P470ACT-ND	ERJ-6GEYJ471V	RES SMD 470 OHM 5% 1/8W 0805	100	\$0.01	\$1.00	10-Apr-17
4	P100KCCT-ND	ERJ-6ENF1003V	RES SMD 100K OHM 1% 1/8W 0805	50	\$0.020	\$1.00	10-Apr-17
5	450-2055-1-ND	1571563-4	SWITCH TACTILE SPST-NO 0.05A 24V	10	\$0.275	\$2.75	10-Apr-17
6	36-655-ND	655	BANANA PLUG .500" 6-32 EXT THD	10	\$2.045	\$20.45	10-Apr-17

Subtotal:	\$51.10
Shipping Fees:	\$8.99
Grand Total:	\$60.09

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 38

**Requested By:** TSI (Jack)  
**Requested Date:** 5-Apr-17  
**Ship By:** Ground

**Vendor:** Mouser  
**Web Site:** [www.mouser.com](http://www.mouser.com)  
**Phone:** (800) 346-6873

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	652-PTA4432015CPB202	PTA4543-2015CPB202	Slide Potentiometers 2K LINEAR	10	\$1.01	\$10.10	10-Apr-17
2	450-SL4514	450-SL4514	Knobs & Dials SLIDE CNTRL GY/BK	2	\$1.14	\$2.28	10-Apr-17
3	629-GPB507A05BR	GPB507A05BR	Pushbutton Switches Off-(On) Pushbutton Red	1	\$2.16	\$2.16	10-Apr-17

Subtotal:	\$14.54
Shipping Fees	\$7.99
Grand Total:	\$22.53

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 39

**Requested By:** TSI /GLV  
**Requested Date:** 5-Apr-17  
**Ship By:** Ground

**Vendor:** McMaster-Carr  
**Web Site:** <https://www.mcmaster.com/>  
**Phone:** (330) 995-5500

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSI	95117A433	95117A433	Press-Fit Nut for Soft Metal and Plastic (pack of 50)	1	\$12.69	\$12.69	6-Apr-17
2	TSI	90272A145	90272A145	Steel Phillips Rounded Head Screw (pack of 100)	1	\$1.99	\$1.99	6-Apr-17
3	TSI	94335A147	94335A147	Electrical-Insulating Femail Threaded Standoff (2")	3	\$5.76	\$17.28	6-Apr-17
4	TSI	94335A125	94335A125	Electrical-Insulating Femail Threaded Standoff (1/2")	10	\$3.56	\$35.60	6-Apr-17
5	TSI	8975K11	8975K11	6061 Aluminum (1')	1	\$4.42	\$4.42	6-Apr-17
6	TSI	92095A452	92095A452	18-8 Stainless Steel Hex Drive Rounded Head Screw M2 x 0.4 mm Thread 5 mm Long	1	\$6.50	\$6.50	6-Apr-17
7	TSI	8216T77	8216T77	3" Made to Order Peel and Stick (set message to TSI, color Black)	1	\$6.88	\$6.88	12-Apr-17
8	GLV	8216T77	8216T77	3" Made to Order Peel and Stick (set message as GLV, color Black)	1	\$6.88	\$6.88	12-Apr-17
9	GLV	93635A156	93635A156	M5 x .8mm screws 10mm long	1	\$8.32	\$8.32	6-Apr-17
10	GLV	90272A194	90272A194	8-32 Thread Size Phillips Head Rounded Screws	1	\$3.14	\$3.14	6-Apr-17

Subtotal:	\$103.70
Shipping Fees	\$5.79
Grand Total:	\$109.49

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 40

**Requested By:** TSV / TSI  
**Requested Date:** 5-Apr-17  
**Ship By:** Ground

**Vendor:** GMW Associates  
**Web Site:** [www.gmw.com](http://www.gmw.com)  
**Phone:** 650-802-8292

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	BBM-01	Bus Bar Module DC Current Sensor	2	\$40.00	\$80.00	14-Apr-17

Subtotal:	\$80.00
Shipping Fees:	\$10.25
Grand Total:	\$90.25

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 41

**Requested By:** IC (Jeremy)  
**Requested Date:** 10-Apr-17  
**Ship By:** 2-Day

**Vendor:** Allied Electronics  
**Web Site:** <http://www.alliedelec.com/>  
**Phone:** 855-338-8433

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	70133109	Q2-F3X-QK1-01-6IN-106	Tubing Kit 1/16, 1/8, 1/4, 1/2, 3/4, and 1 In. sizes; Shrink(3:1)	1	\$36.360	\$36.36	12-Apr-17
2	70121553	HDI-1410	HDMI (M-M) CABLE 1.4 W/ETHERNET CL3 28 AWG 1080P 10ft	1	\$11.880	\$11.88	12-Apr-17

Grand Total:	\$48.24
Shipping Fees	\$42.41
Grand Total:	\$90.65



## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 42

**Requested By:** TSI (Jack / Adam)  
**Requested Date:** 12-Apr-17  
**Ship By:** Ground

**Vendor:** Super Bright LEDs  
**Web Site:** <http://www.superbrightleds.com/>  
**Phone:** 866-590-3533

#	Vendor PN	UPC	Description	Quantity	Unit Price	Total Price	Rcvd
1	PT-STRB-R56	847781017625	Oval LED Strobe Truck and Trailer Lights - 6" LED Lights w/ Built-In Controller - 3-Pin Connector - Red	1	\$24.95	\$24.95	18-Apr-17
2	M9-R4	847781017977	Oval LED Truck and Trailer Lights - 4" LED Side Clearance Lights w/ 4 High Flux LEDs - Pigtail Connector - Red	2	\$4.95	\$9.90	18-Apr-17

Subtotal:	\$34.85
Shipping Fees	\$7.70
Grand Total:	\$42.55

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 43

**Requested By:** GLV (Kyle)  
**Requested Date:** 12-Apr-17  
**Ship By:** Ground

**Vendor:** McMaster Carr  
**Web Site:** <http://www.mcmaster.com>  
**Phone:** 218-681-6674

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	5945T83	Wrap-on Wire Marker Book, Tyvek, 1-45, Consecutively Numbered	1	\$15.00	\$15.00	13-Apr-17
2	5945T84	Wrap-on Wire Marker Book, Tyvek, 46-90, Consecutively Numbered	1	\$15.00	\$15.00	13-Apr-17

Subtotal:	\$30.00
Shipping Fees:	\$5.32
Grand Total:	\$35.32

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 44

**Requested By:** TSI & TSV  
**Requested Date:** 12-Apr-17  
**Ship By:** Ground

**Vendor:** Digikey  
**Web Site:** <http://www.digikey.com>  
**Phone:** 218-681-6674

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSI	P4.70KCCT-ND	ERJ-6ENF4701V	RES SMD 4.7K OHM 1% 1/8W 0805	10	\$0.037	\$0.37	18-Apr-17
2	TSI	P4.87KCCT-ND	ERJ-6ENF4871V	RES SMD 4.87K OHM 1% 1/8W 0805	10	\$0.037	\$0.37	18-Apr-17
3	TSI	P4.99KCCT-ND	ERJ-6ENF4991V	RES SMD 4.99K OHM 1% 1/8W 0805	10	\$0.037	\$0.37	18-Apr-17
4	TSI	AKC14H-ND	1658621-2	CONN IDC SKT 14POS W/POL 15 GOLD	2	\$1.440	\$2.88	18-Apr-17
5	TSI	WM2902-ND	50579404	CONN HOUSING 4POS .100 W/LATCH	2	\$0.270	\$0.54	18-Apr-17
6	TSI	WM2906-ND	50579408	CONN HOUSING 8POS .100 W/LATCH	2	\$0.480	\$0.96	18-Apr-17
7	TSI	556879-2-ND	556879-2	CONN HSG PLUG 2POS 11.18MM BLACK	2	\$3.890	\$7.78	18-Apr-17
8	TSI	F4564-ND	01500322H	FUSE HLDR CART 500V 15A IN LINE	2	\$6.350	\$12.70	18-Apr-17
9	TSI	F3212-ND	0314.500HXP	FUSE CERAMIC 500MA 250VAC 125VDC	10	\$0.899	\$8.99	18-Apr-17
10	TSV	887-1741-1-ND	7A-10.000MAAE-T	CRYSTAL 10.0000MHZ 12PF SMD	15	\$0.582	\$8.73	18-Apr-17

Subtotal:	\$43.69
Shipping Fees	\$8.99
Grand Total:	\$52.68

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 45

**Requested By:** GLV (Joe)  
**Requested Date:** 12-Apr-17  
**Ship By:** Ground

**Vendor:** Adafruit  
**Web Site:** <https://www.adafruit.com/>  
**Phone:** (646) 248-7822

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	2718	7" Touchscreen Display for Raspberry Pi	1	\$79.95	\$79.95	18-Apr-17

Subtotal:	\$79.95
Shipping Fees	\$7.12
Grand Total:	\$87.07

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Requested By:** TSI & GLV & TSV  
**Requested Date:** 18-Apr-17  
**Ship By:** 3-Day

**Req Number:** 46

**Vendor:** Mouser  
**Web Site:** [www.mouser.com](http://www.mouser.com)  
**Phone:** (800) 346-6873

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSV	859-LTV-357T	LTV-357T	Transistor Output Optocouplers Optocoupler Phototrans	10	\$0.192	\$1.92	24-Apr-17
2	TSI	652-PTA45532015DPB50	PTA4553-2015DPB502	Slide Potentiometers 15MM SHAFT NO DET 45MM STRK SNG LIN	5	\$1.200	\$6.00	24-Apr-17
3	TSI	594-AC05W10K00J	AC05000001002JAC00	Wirewound Resistors - Through Hole 5watts 10Kohms 5%	6	\$0.580	\$3.48	24-Apr-17
4	TSI	571-5568802	556880-2	Power to the Board CONTACT AMPINNERGY WTB 10-12	6	\$0.810	\$4.86	24-Apr-17
5	GLV	645-6123132120F	612-3132-120F	LED Panel Mount Indicators Red 60mcd 6VDC 15mA	2	\$5.190	\$10.38	24-Apr-17
6	GLV	645-6123132130F	612-3132-130F	LED Panel Mount Indicators Red 60mcd 12VDC 15mA	1	\$5.190	\$5.19	24-Apr-17
7	GLV	645-6123232140F	612-3232-140F	LED Panel Mount Indicators GREEN 110MCD 24VCD 15MA	2	\$5.190	\$10.38	24-Apr-17

Subtotal:	\$42.21
Shipping Fees:	\$14.83
Grand Total:	\$57.04

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 47

**Requested By:** TSV & TSI & IC  
**Requested Date:** 18-Apr-17  
**Ship By:** Ground

**Vendor:** McMaster Carr  
**Web Site:** [www.mcmaster.com](http://www.mcmaster.com)  
**Phone:** 609-689-3000

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	TSV	8507K65	N/A	Rubber Edge Trim Standard Style 4, 100 FT	1	\$54.00	\$54.00	20-Apr-17
2	TSV	8216T66	N/A	Made-to-Order Peel-and-Stick Message, 1-5 Characters, 1-1/2" High, "1234"	1	\$4.50	\$4.50	26-Apr-17
3	TSI	74945A69	59530	Clear Silicone Sealant, Loctite® 59530, 2.7 oz. Tube	1	\$5.98	\$5.98	20-Apr-17
4	IC	7432K162	N/A	Spiral Bundling Wrap, UV-Resistant Polyethylene, 3/16" ID, 1/4" OD (25ft)	1	\$9.07	\$9.07	20-Apr-17
5	IC	7432K63	N/A	Spiral Bundling Wrap, UV-Resistant Polyethylene, 1/4" ID, 3/8" OD (25ft)	1	\$13.31	\$13.31	20-Apr-17

Grand Total:	\$86.86
Shipping Fees	\$6.36
Grand Total:	\$93.22

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 48

**Requested By:** TSI (Christer)  
**Requested Date:** 19-Apr-17  
**Ship By:** N/A (Picked Up)

**Vendor:** Home Depot  
**Web Site:** <http://www.homedepot.com/>  
**Phone:** 1-800-466-3337

#	Vendor SKU	Model #	Description	Quantity	Unit Price	Total Price	Rcvd
1	279782	20512	3/4 in. Non-Metallic (NM) Twin-Screw Clamp Connectors (5-Pack)	2	\$4.210	\$8.42	19-Apr-17
2	292514	90513	1 in. Non-Metallic (NM) Twin-Screw Clamp Connector (Wrong size but opened package thus cannot return)	1	\$1.610	\$1.61	19-Apr-17
3	492405	33461	Everbilt #8-32 x 3/4 in. Phillips Flat-Head Machine Screws (5-Pack)	2	\$1.180	\$2.36	19-Apr-17
4	661872	87196	3/8 in. Hex Bolt	6	\$0.200	\$1.20	19-Apr-17
5	655449	801756	3/8 in. Hex Nut	6	\$0.120	\$0.72	19-Apr-17

Subtotal:	\$14.31
Shipping / Tax:	\$0.00
Grand Total:	\$14.31

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 49

**Requested By:** TSI (Jack)  
**Requested Date:** 20-Apr-17  
**Ship By:** Ground

**Vendor:** Super Bright LEDS  
**Web Site:** <http://www.superbrightleds.com/>  
**Phone:** 866-590-3533

#	Vendor PN	UPC	Description	Quantity	Unit Price	Total Price	Received
1	PL-3S	847781017779	Straight 3-Pin Plug for Trailer Lights and Truck Lights	1	\$1.49	\$1.49	25-Apr-17
2	KC-65	847781031713	PT Series Chrome Bezel with Hood	1	\$2.95	\$2.95	25-Apr-17

Subtotal:	\$4.44
Shipping Fees:	\$3.57
Grand Total:	\$8.01



## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 50

**Requested By:** IC (Larisa)  
**Requested Date:** 20-Apr-17  
**Ship By:** Ground

**Vendor:** Wire Care  
**Web Site:** [www.wirecare.com](http://www.wirecare.com)  
**Phone:** 973-300-9782

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Received
1	0462-201-16141	Female, Crimp 16 - 20 AWG	100	\$0.60	\$60.00	24-Apr-17
2	0460-202-16141	Male pin 16 - 20 AWG	100	\$0.593	\$59.30	24-Apr-17

Subtotal:	\$119.30
Shipping Fees:	\$7.99
Grand Total:	\$127.29

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 51

**Requested By:** IC & TSI  
**Requested Date:** 21-Apr-17  
**Ship By:** 3-Day

**Vendor:** Mouser  
**Web Site:** [www.mouser.com](http://www.mouser.com)  
**Phone:** (800)346-6873

#	Team	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	IC	571-DT06-2S	DT06-2S	Automotive Connectors DT Plug 2 Way	10	\$1.030	\$10.30	26-Apr-17
2	IC	571-W2-S	W2-S	WEDGE LOCK FOR 2P PLUG HOUSING	10	\$0.105	\$1.05	26-Apr-17
3	IC	571-W6-S	W6-S	WEDGE LOCK FOR 6P PLUG HOUSING	10	\$0.280	\$2.80	26-Apr-17
4	IC	571-DT04-6P	DT04-6P	Automotive Connectors 6WAY RECEPTACLE	5	\$2.690	\$13.45	26-Apr-17
5	TSI	571-2008571-2	2008571-2	Pin & Socket Connectors 2 POS MICRO MNL, TOP LATCH, BL	10	\$0.181	\$1.81	26-Apr-17

Subtotal:	\$29.41
Shipping Fees:	\$14.83
Grand Total:	\$44.24

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 52

**Requested By:** GLV (Kyle)  
**Requested Date:** 21-Apr-17  
**Ship By:** Ground

**Vendor:** McMaster Carr  
**Web Site:** <http://www.mcmaster.com>  
**Phone:** 218-681-6674

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Received
1	7565K47	Cable Holders, Adhesive-Back, for 9/16" Maximum Bundle Diameter (Pack of 25)	2	\$11.83	\$23.66	24-Apr-17

Subtotal:	\$23.66
Shipping Fees:	\$5.32
Grand Total:	\$28.98

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 53

**Requested By:** IC (Jeremy)  
**Requested Date:** 24-Apr-17  
**Ship By:** 2-Day

**Vendor:** Allied Electronics  
**Web Site:** <http://www.alliedelec.com/>  
**Phone:** 8557746900

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	70230532	DT06-6S	TE Connectivity DT06-6S (6 PIN FEMALE CONNECTOR)	10	\$2.440	\$24.40	26-Apr-17

Subtotal:	\$24.40
Shipping Fees:	\$25.98
Grand Total:	\$50.38

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 54

**Requested By:** VSCADA & Cooling  
**Requested Date:** 24-Apr-17  
**Ship By:** Prime 2-Day

**Vendor:** Amazon  
**Web Site:** [www.amazon.com](http://www.amazon.com)  
**Phone:** 1-888-280-4331

#	Team	Vendor PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	VSCADA	B010Q588D4	SanDisk Ultra 64GB microSDXC UHS-I Card with Adapter, Grey/Red, Standard Packaging (SDSQUNC-064G-GN6MA)	1	\$21.99	\$21.99	26-Apr-17
2	Cooling		Arduino Uno R3 Microcontroller A000066	1	\$18.82	\$18.82	26-Apr-17
3	Cooling		Sparkfun CAN-BUS Shield for Arduino and compatibles	1	\$39.95	\$39.95	1-May-17

Subtotal:	\$80.76
Shipping / Tax:	\$2.64
Grand Total:	\$83.40

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 55

**Requested By:** TSI (Jack)  
**Requested Date:** 26-Apr-17  
**Ship By:** Ground

**Vendor:** McMaster Carr  
**Web Site:** <http://www.mcmaster.com>  
**Phone:** 218-681-6674

#	Vendor PN	Description	Quantity	Unit Price	Total Price	Received
1	7641K921	Modular DIN Rail-Mount Terminal Block, DIN 1 & 3, Standard, 5mm Width (Grey)	10	\$1.190	\$11.90	27-Apr-17
2	7641K925	Jumper for Standard DIN 1 & 3, 5mm Width Modular DIN Rail-Mount Terminal Block	3	\$8.350	\$25.05	27-Apr-17

Subtotal:	\$36.95
Shipping Fees:	\$5.32
Grand Total:	\$42.27

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 56

**Requested By:** TSV  
**Requested Date:** 1-May-17  
**Ship By:** Expedited

**Vendor:** StickerYou  
**Web Site:** [www.stickeryou.com](http://www.stickeryou.com)  
**Phone:** (877) 437-8825

#	Description	Quantity	Unit Price	Total Price	Rcvd
1	Vinyl rectangular sticker, 6" x 2.25", Removable white vinyl (glossy), pages of stickers	2 pages (8 stickers)	\$2.1225 per sticker	\$16.98	

Subtotal:	\$16.98
Shipping Fees:	\$14.99
Coupon Discount:	\$1.70
Grand Total:	\$30.27

Instructor Approval: \_\_\_\_\_

## ECE Department Material Request

**Course:** ECE 492  
**Professor:** Nadovich/Schmult

**Req Number:** 57

**Requested By:** Cabling (Jeremy)  
**Requested Date:** 4-May-17  
**Ship By:** Overnight

**Vendor:** Mouser  
**Web Site:** <http://www.mouser.com/>  
**Phone:** 800-346-6873

#	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	571-776164-1	776164-1	Automotive Connectors PLG 35 POS F/H BLK	3	\$10.70	\$32.10	5-May-17
2	571-DT06-12SA	DT06-12SA	Automotive Connectors SZ 16 DT 12 WAY PLUG RoHS Compliant	5	\$5.080	\$25.40	5-May-17
3	571-7708541	770854-1	Automotive Connectors RECEPT CONTACT LOOSE	250	\$0.11	\$28.25	5-May-17

Subtotal:	\$85.75
Shipping Fees:	\$54.09
Grand Total:	\$139.84