

Project Status Letter PSL Number: PSL_07

Covering period: 03/18-03/24

Prepared by: J. Mahati Hari and Rachel Szeinberg

Task Summary from Previous Week / Proposed Changes:

TEAM	TASKS COMPLETED	FURTHER INVESTIGATION	PROPOSED CHANGES
VSCADA	N/A	N/A	[+] VSC.5 JGB delivered and all pertinent subtasks
Cell App	N/A	[+] CELL.1.6. [Implemented pinch view zoom] - does this need to be demonstrated? If it does not, progress charts will be updated to reflect this change. *please reference specific WBS items	[+] CELL.1.6.[Implemented pinch view zoom]
DYNO	N/A	N/A	N/A
TSV	TSV.2.2 [properly wired and bar installation completed]	N/A	[+] Modified handwritten “debugged X pack”
TSI	TSI.6.1 [Stand alone - tested with safety loop] TSI.1.1 [Schematic Design Approved]	TSI.5.1 [Box acquired] - design to be approved by professors	N/A
Cooling	N/A	COOL.3.2 [Pump integrated with system] - On the WBS,	[?] What tests were performed? What was the

		COOL.3.2 is [Pump algorithm written- manual mode] [COOL.6.2] Box design.- On the WBS COOL.6.2 is [Cooling Fan Integrated] *please reference current WBS version	integration? What specific parts were integrated? [+] LCD display interface
Systems Engineering	N/A	N/A	N/A
GLV	GLV 4.2 [GLV_BOB purchased]	N/A	N/A
Interconnect	IC.3.2. [Assembled all W1 cables] IC.3.24, [Assembled all W34 cables] IC.2.1* [Assembled cables for TSI] IC.2.2* [Tested cables for TSI through integration] IC.2.3* [Assembled cables for TSV] IC.2.4* [Tested cables for TSV through integration] IC.2.5* [Assembled cables for GLV] IC.2.6* [Tested cables for GLV through integration] *the above tasks reference cables being made for CDR	IC.3.25 [does not exist] - was something else supposed to be referenced? IC.4.1 [Built GLV safety loop cables]- This was for the 2/20 test, and has been crossed off?	[-] IC.1.1 [Design approved by professor] [-]IC.1.2 [Test plan approved] [-] IC.3.11 [Assembled all W17 cables] [+] IC.3.25 [Assembled all W35 cables] [+] IC.3.26 [Assembled all W36 cables] [+] add individual subtasks for testing each type of cable
Communications	No data	No data	No data

Car Physics Investigation	PHYS.1.1[Motor/MC TSV interface high level diagram delivered] PHYS.1.2[Elementary high level diagram of integrated car] PHYS.2.1 [Dynamic High level diagram delivered] PHYS.2.2[Static modeling high level diagram delivered]	PHYS.3.3[Derivation for Motor/MC io]- this was submitted with other completed things to be on website, but was not included in the IPR?	N/A
MGMT	-weekly purchasing report delivered -updated website -PSL 05/06 delivered	N/A	N/A

Plan for next week:

TEAM	TASKS TO BE COMPLETED
VSCADA	VSC.2.1 [Demonstrated maintenance view] VSC.3.4 [Config UI Delivered]
Cell App	CELL.1.4 [Demonstrated log display view] CELL.1.5 [Demonstrated circular display view] CELL.?.? [Demonstrated UI connection with real data]
DYNO	DYNO.2.1[Demonstrated power supply communication] DYNO.2.2[Demonstrated functional resistance meter flip] DYNO.2.3[Demonstrated addition of mech-e/ee parameters]
TSV	TSV 1.5 [Pacman board updates] TSV 2.4 [Integration of AMS with Pack]
TSI	TSI.5.1 [Box acquired] - design to be approved by professors TSI.1.2 [PCB layout approved] ** aim to make progress, not sure if can be completed in a week
Cooling	[?] LCD display interface
Systems Engineering	TSV 1.5 [Pacman board updates] M.4.2 [Maintenance manual delivered] M.3.1 [Individual subsystem's manual delivered] M.5.1 [ATP delivered]
GLV	GLV.3.2 [Interior Panel Delivered] GLV.4.6 [Enclosure-mounted Panels Delivered] GLV 1.2 [test battery] [?] Built BOB

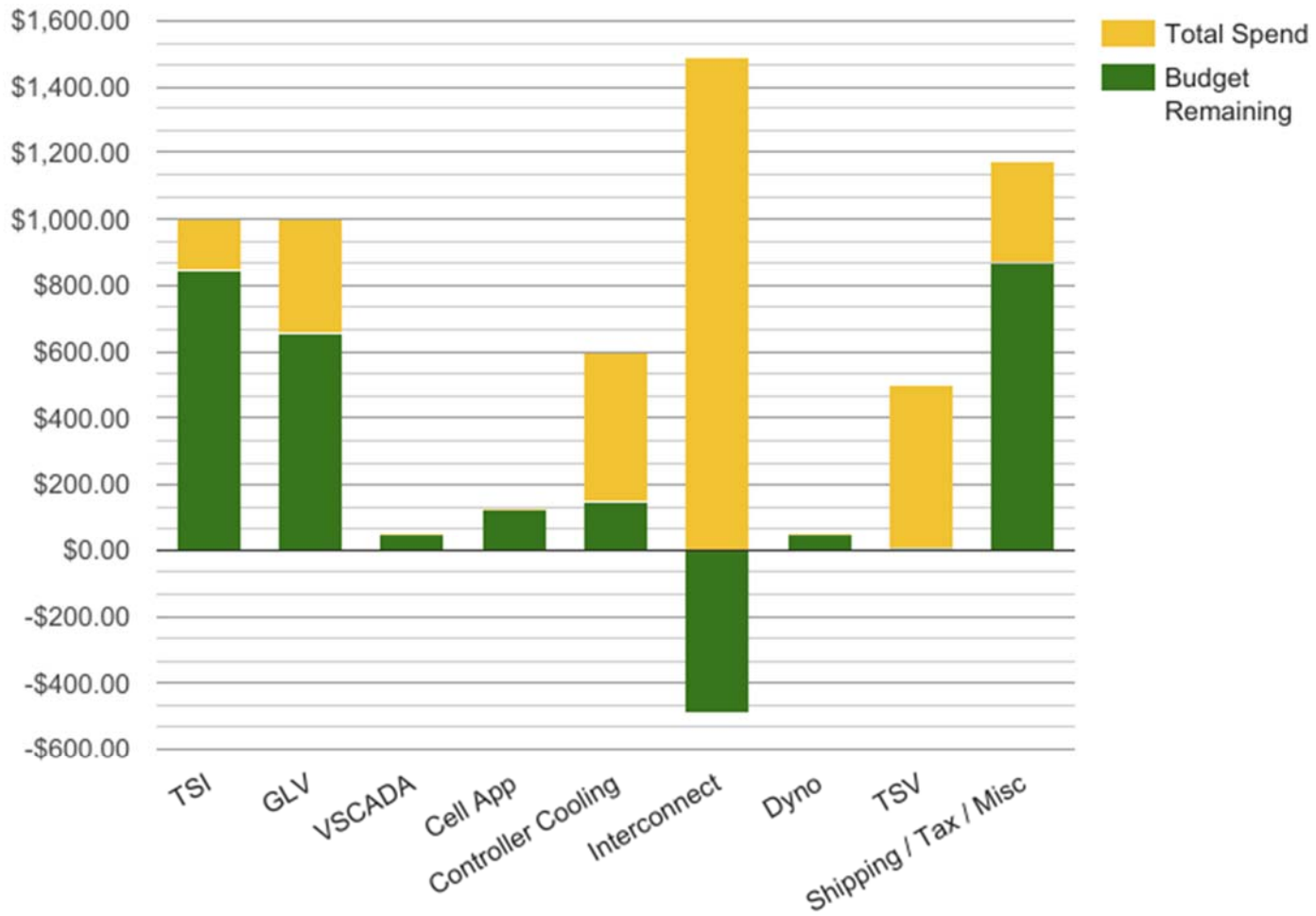
Interconnect	IC.3.2 [Assembled all W2 cables] IC.3.3 [Assembled all W3 cables] IC.3.20 [Assembled all W28 cables] IC.3.21 [Assembled all W31 cables] IC.3.22 [Assembled all W32 cables] IC.3.23 [Assembled all W33 cables] IC.3.24 [Assembled all W34 cables] IC.3.25 [does not exist]
Communications	No data
Car Physics Investigation	PHYS.3.[Mathematical equations and memo delivered] PHYS.4.[Report delivered]
MGMT	Delivered PSL 7 Deliver weekly purchasing report Updated website Submit purchase orders Submit WBS_v3 for approval and print

Cost Summary:

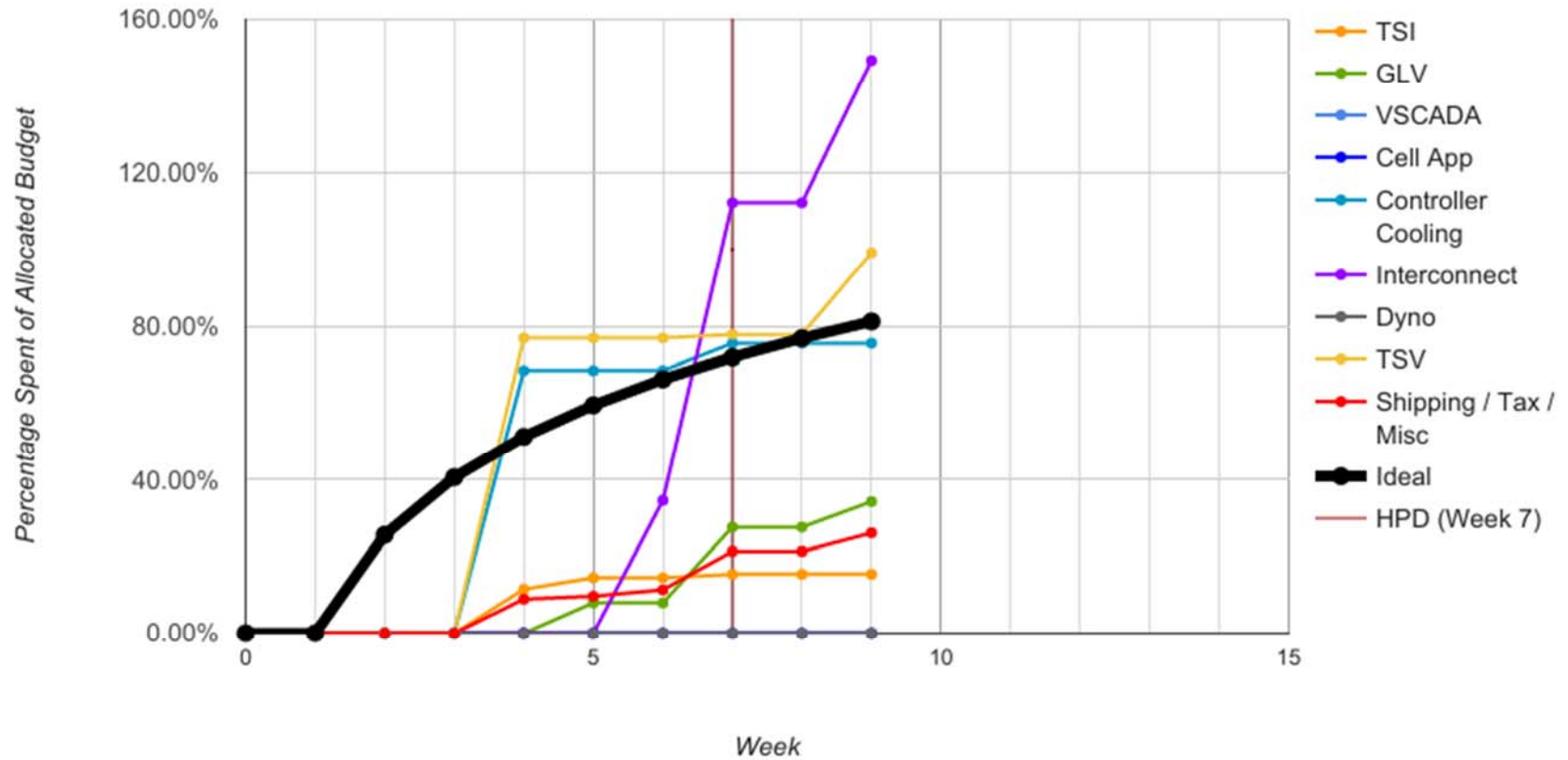
Subsystem	Spent this period	Spent to date	Budget Allocated	Budget Remaining	Percentage Spent
TSI	\$0.00	\$153.61	\$1,000	\$846.39	15.36%
GLV	\$66.21	\$342.03	\$1,000	\$657.96	34.20%
VSCADA	\$0.00	\$0	\$50	\$50.00	0.00%
Cell App	\$0.00	\$0	\$125	\$125.00	0.00%
Controller Cooling System	\$0.00	\$452.92	\$600	\$147.08	75.49%
Interconnect / Cabling / ICD	\$370.34	\$1,492.54	\$1,000	-\$492.54	149.25%
Dyno	\$0.00	\$0	\$50	\$50.00	0.00%
TSV	\$106.75	\$495.69	\$500	\$4.31	99.14%
Physics & Cruise Control	\$0.00	\$0	\$0	-	-
Shipping / Tax / Misc*	\$117.57	\$306.52	\$1,175	\$868.48	26.09%
Total	\$660.46	\$3,243.31	\$5,500	\$2,256.69	58.97%

**Shipping / Tax includes that of orders that were placed in previous weeks but were received within this period.*

Budget Spending

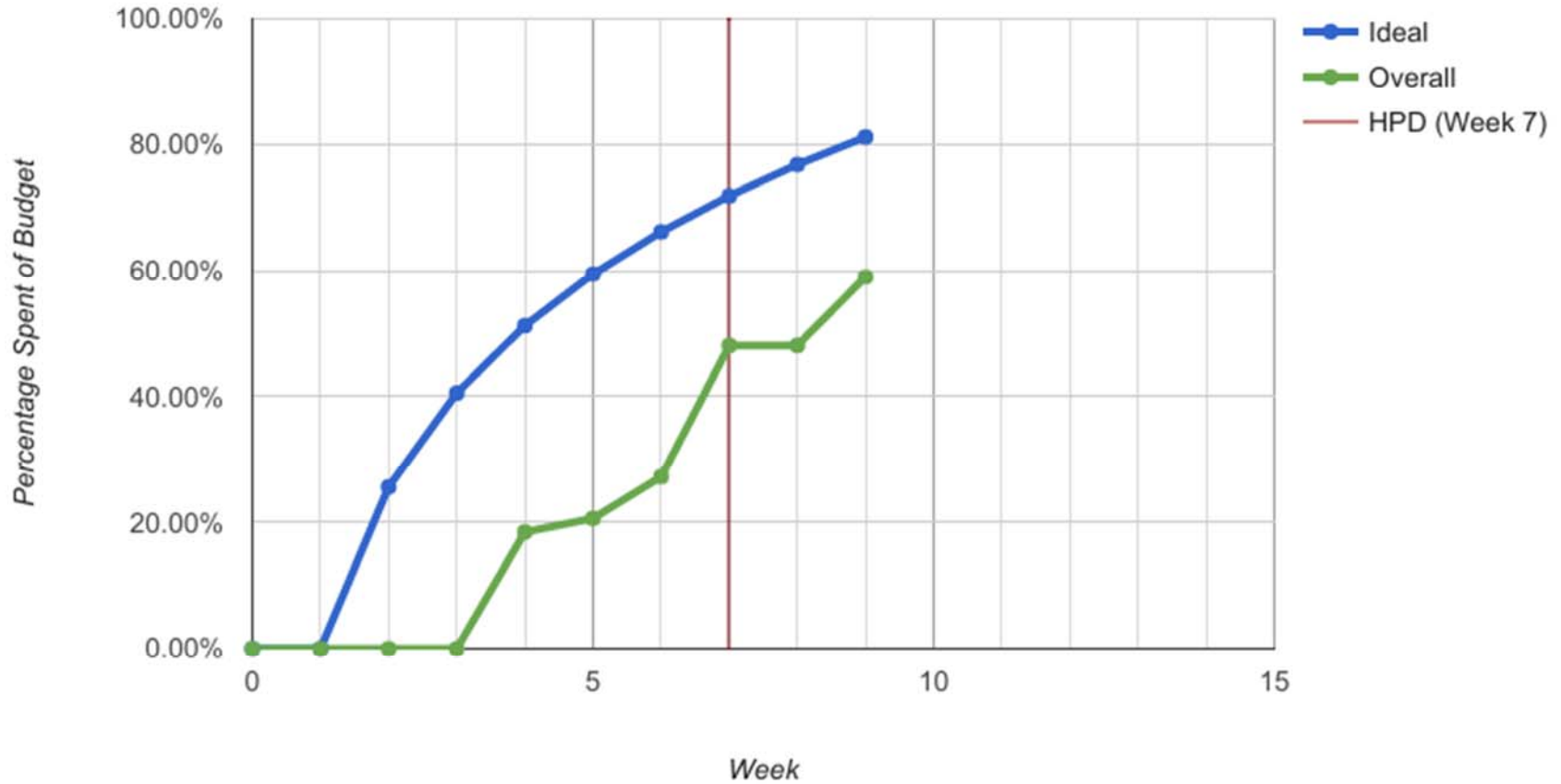


Percentage Spent of Subsystem Budget Allocations



Ideally Spent per Subsystem (by Week 9): 81.14%

Percentage Spent of Total Budget



Ideally Spent Overall (by Week 9): 81.14%

Receiving Report:

The following items were all received this week:

Request #10* – TSV (paid for by Department) – Sears – Mechanical Tools (Appendix I)

Request #11 – TSV/TSI/GLV – Digikey – Banana Jacks, Circuit Breakers, Push Buttons, etc. (Appendix II)

Request #13 – IC** – Mouser – Connectors (Appendix III)

Request #14 – Cooling – Amazon – (Appendix IV)

Request #15 – IC** – Brady (partially paid for by Department) – Cable Labeling System and Labels (Appendix V)

Request #16 – GLV – EV West – Inertia Switch (Appendix VI)

Request #18 – GLV – Digikey – SMD Resistors, Panel LEDs, etc. (Appendix VII)

*Only the tweezers from Request #10 were received during this period. The other items were previously received.

**IC stands for Interconnect/Cabling/ICD

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date	Received Date
10	TSV	Sears	SPM7696798322	15	TAMIYA 74047 HG Angled Tweezers TAMR7447	6-Mar -17	20-Mar -17
11	TSV	Digikey	296-13493-1-ND	10	IC INVERTER DUAL 1INPUT SC70-6	6-Mar -17	20-Mar -17
11	TSI	Digikey	BKCT3134-2-ND	1	DIY 4MM SHTH JACK-RED	6-Mar -17	20-Mar -17
11	TSI	Digikey	BKCT3134-0-ND	2	DIY 4MM SHTH JACK-BLACK	6-Mar -17	20-Mar -17
11	GLV	Digikey	296-38571-1-ND	5	SENSOR TEMPERATURE SMBUS 8VSSOP	6-Mar -17	20-Mar -17
11	GLV	Digikey	Z2254-ND	5	RELAY GEN PURPOSE SPST 10A 24V	6-Mar -17	20-Mar -17
11	GLV	Digikey	296-34970-1-ND	10	IC LOAD SW HIGH SIDE 6SOT	6-Mar -17	20-Mar -17
11	GLV	Digikey	PB192-ND	1	CIR BRKR THRM 15A 250VAC 32VDC	6-Mar -17	20-Mar -17
11	GLV	Digikey	PB189-ND	1	CIR BRKR THRM 8A 250VAC 32VDC	6-Mar -17	20-Mar -17
11	GLV	Digikey	GH1367-ND	2	SWITCH PUSH SPST-NO 0.15A 5V	6-Mar -17	20-Mar -17

11	GLV	Digikey	GH1368-ND	2	SWITCH PUSH SPST-NO 0.15A 5V	6-Mar -17	20-Mar -17
13	IC	Mouser	571-DT04-2P-L012	10	Connectors DT RECP ASM RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-W2-P	20	Connectors WEDGE LOCK FOR 2P RECHOUSING RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-DT04-3P-L012	5	Connectors DT 3WAY RECEPTACLE FLANGE MOUNT RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-W3-P	10	Connectors WEDGE LOCK FOR 3WAY REC HSNR RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-W3-S	10	Connectors WEDGE LOCK FOR 3WAY PLUG RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-DT04-4P-L012	5	Connectors SZ 4 WAY RECP DT FLANGE MOUNT RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-DT04-6P-CL09	10	Connectors DT RECP ASM RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-DT06-6S	5	Connectors PLUG DT 6 WAY RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-W8-P	10	Connectors WEDGE LOCK FOR 8WAY REC RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-DT04-12PA-L012	5	Connectors DT 12 WAY REC W/ FLANGE RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-W12P	10	Connectors WEDGELOCK DT 12 WAY RECP RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-114017	50	Connectors SEALING PLUG SZ 12-16 RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-160001	15	Terminals TERM,SOLIS R 2/0 M10 RoHS Compliant	7-Mar -17	20-Mar -17

13	IC	Mouser	571-323127	100	Terminals SPADE 22-16AWG 6 RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-2-520184-2	100	Terminals INSULATED RECP 22-18 .250 x .032 RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-25201032	100	Terminals TAB 22-18AWG .250 .250 x .032 RoHS Compliant	7-Mar -17	20-Mar -17
13	IC	Mouser	571-776164-1	2	Connectors PLG 35 POS F/H BLK	7-Mar -17	20-Mar -17
13	IC	Mouser	571-7708541	100	Connectors RECEPT CONTACT LOOSE	7-Mar -17	20-Mar -17
13	IC	Mouser	571-776463-1	2	Connectors WIRE RELIEF, PLUG 35 POS	7-Mar -17	20-Mar -17
14	Cooling	Amazon	-	1	Swiftech MCRES Micro Revision 2 Reservoir	8-Mar-17	20-Mar -17
14	Cooling	Amazon	-	1	Precision Brand M12S Micro Seal 9/16 inches	8-Mar-17	20-Mar -17
15	IC	Brady	BMP21-PLUS-KIT1	1	BMP21-PLUS Printer Kit	8-Mar-17	20-Mar -17
15	IC	Brady	M21-250-C-342	1	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	8-Mar-17	20-Mar -17
15	IC	Brady	M21-375-C-342	1	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	8-Mar-17	20-Mar -17
16	GLV	EV West	-	1	First Technology Inertia Switch - 360 degree Resettable Crash Sensors	8-Mar-17	20-Mar -17
18	GLV	Digikey	ADS7823E/250CT-ND	3	IC 12-BIT LP A/D CONV 8VSSOP	9-Mar-17	20-Mar -17
18	GLV	Digikey	LTC2631ITS8-LM12#TRMPBFCT-ND	2	IC DAC 12BIT VOUT TSOT23-8	9-Mar-17	20-Mar -17
18	GLV	Digikey	350-2645-ND	3	LED PANEL IND 5V 15MA RED	9-Mar-17	20-Mar -17
18	GLV	Digikey	RMCF0805JT10K0CT-ND	100	RES SMD 10K OHM 5% 1/8W 0805	9-Mar-17	20-Mar -17

18	GLV	Digikey	RMCF0805JT120R CT-ND	100	RES SMD 120 OHM 5% 1/8W 0805	9-Mar-17	20-Mar -17
18	GLV	Digikey	RNCF0805TKY250 RCT-ND	10	RES SMD 250 OHM 0.01% 1/8W 0805	9-Mar-17	20-Mar -17
18	GLV	Digikey	311-100CRCT-ND	100	RES SMD 100 OHM 1% 1/8W 0805	9-Mar-17	20-Mar -17
18	GLV	Digikey	P1.0KADCT-ND	25	RES SMD 1K OHM 5% 1/2W 0805	9-Mar-17	20-Mar -17
18	GLV	Digikey	SK310A- LTPMSCT-ND	10	DIODE SCHOTTKY 100V 3A DO214AC	9-Mar-17	20-Mar -17
18	GLV	Digikey	CSNL1206FT1L00 CT	50	RES SMD 0.001 OHM 1% 1W 1206	9-Mar-17	20-Mar -17

Purchase Requests:

Purchase Order #19 – TSV – Mouser – Pack Connectors (Appendix VIII)

Purchase Order #20 – GLV / TSV – Digikey – Op Amps, Transistors, ICs (Appendix IX)

Purchase Order #21 – IC* – Newark – DT04-8P Connectors (Appendix X)

Purchase Order #22 – IC* – Wire Care – 16-20 AWG Pins (Appendix XI)

Purchase Order #23 – IC* – Cable Ties and More – Heat Shrink, Wire Loom (Appendix XII)

Purchase Order #24 – IC* – Allied Electronics – DT06-6S Connectors (Appendix XIII)

Purchase Order #25 – IC* – Automation Direct – 20AWG Red Cable (Appendix XIV)

*IC stands for Interconnect/Cabling/ICD

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date
19	TSV	Mouser	879-1827G1-BK	5	Heavy Duty Power Connectors PP15/45 PREMATE HSG ONLY GRN -BULK	23-Mar -17
19	TSV	Mouser	879-115G1	5	Heavy Duty Power Connectors PP PAK-2-4P HDWE PAK-CABLE	23-Mar -17
19	TSV	Mouser	879-110G9	25	Heavy Duty Power Connectors SNAP-IN RECEPTACLE RETAINING PINS	23-Mar -17
19	TSV	Mouser	879-1470G1	5	Heavy Duty Power Connectors PP PAK 2-4P HSG SNAP-IN RECEPT	23-Mar -17
19	TSV	Mouser	879-1460G1	3	Heavy Duty Power Connectors PP PAK 2-4P HSG- PLUG W/LATCH	23-Mar -17
19	TSV	Mouser	636-983-037-020R121	8	D-Sub Backshells 37P STRAIGHT SNAP METALIZED PLASTIC	23-Mar -17
20	GLV	Digikey	AD5593RBRUZ-ND	3	8 Channel, ADC/DAC Chip	23-Mar -17
20	GLV	Digikey	MCP6004T-I/STCT-ND	5	Quad Op Amp	23-Mar -17
20	GLV	Digikey	BSS84CT-ND	10	MOSFET P-CH 50V 130MA SOT-23	23-Mar -17
20	GLV	Digikey	Z1013-ND	4	Single Pole Double Throw 24V Relay	23-Mar -17
20	TSV	Digikey	LT1307BCS8#PBF-ND	10	IC REG BOOST ADJ 0.6A 8SOIC	23-Mar -17
21	IC	Newark	77R3075	4	RECEPTACLE, FLANGE, 8 POSITION, PIN	23-Mar-17
22	IC	Wire Care	0462-201-16141	200	Female, Crimp 16 - 20 AWG	23-Mar-17

22	IC	Wire Care	0460-202-16141	200	Male pin 16 - 20 AWG	23-Mar-17
23	IC	Cable Ties and More	HSK3-1-KIT-BK	1	3:1 Shrink Black 6 sizes, 110 pcs 6" Length	23-Mar-17
23	IC	Cable Ties and More	WL923	1	3/4" Diameter Split Wire Loom 100' Roll	23-Mar-17
24	IC	Allied Electronics	571-1011-267-0605	20	DT BACKSHELL 180 6way plug, DT06-6S	23-Mar-17
25	IC	Automation Direct	29892469184	1	Type MTW wire, 20 AWG, 10-strand, bare copper, red insulation, 600V, 500 ft spool. Alternate part ID: 029892469184.	23-Mar-17

Outstanding Orders:

The following items have been ordered but have not yet been received:

Purchase Order #19 – TSV – Mouser – Pack Connectors (Appendix VIII)

Purchase Order #20 – GLV / TSV – Digikey – Op Amps, Transistors, ICs (Appendix IX)

Purchase Order #21 – IC* – Newark – DT04-8P Connectors (Appendix X)

Purchase Order #22 – IC* – Wire Care – 16-20 AWG Pins (Appendix XI)

Purchase Order #23 – IC* – Cable Ties and More – Heat Shrink, Wire Loom (Appendix XII)

Purchase Order #24 – IC* – Allied Electronics – DT06-6S Connectors (Appendix XIII)

Purchase Order #25 – IC* – Automation Direct – 20AWG Red Cable (Appendix XIV)

*IC stands for Interconnect/Cabling/ICD

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date
19	TSV	Mouser	879-1827G1-BK	5	Heavy Duty Power Connectors PP15/45 PREMATE HSG ONLY GRN -BULK	23-Mar -17
19	TSV	Mouser	879-115G1	5	Heavy Duty Power Connectors PP PAK-2-4P HDWE PAK-CABLE	23-Mar -17
19	TSV	Mouser	879-110G9	25	Heavy Duty Power Connectors SNAP-IN RECEPTACLE RETAINING PINS	23-Mar -17
19	TSV	Mouser	879-1470G1	5	Heavy Duty Power Connectors PP PAK 2-4P HSG SNAP-IN RECEPT	23-Mar -17
19	TSV	Mouser	879-1460G1	3	Heavy Duty Power Connectors PP PAK 2-4P HSG- PLUG W/LATCH	23-Mar -17
19	TSV	Mouser	636-983-037-020R121	8	D-Sub Backshells 37P STRAIGHT SNAP METALIZED PLASTIC	23-Mar -17
20	GLV	Digikey	AD5593RBRUZ-ND	3	8 Channel, ADC/DAC Chip	23-Mar -17
20	GLV	Digikey	MCP6004T-I/STCT-ND	5	Quad Op Amp	23-Mar -17
20	GLV	Digikey	BSS84CT-ND	10	MOSFET P-CH 50V 130MA SOT-23	23-Mar -17
20	GLV	Digikey	Z1013-ND	4	Single Pole Double Throw 24V Relay	23-Mar -17
20	TSV	Digikey	LT1307BCS8#PBF-ND	10	IC REG BOOST ADJ 0.6A 8SOIC	23-Mar -17
21	IC	Newark	77R3075	4	RECEPTACLE, FLANGE, 8 POSITION, PIN	23-Mar-17
22	IC	Wire Care	0462-201-16141	200	Female, Crimp 16 - 20 AWG	23-Mar-17

22	IC	Wire Care	0460-202-16141	200	Male pin 16 - 20 AWG	23-Mar-17
23	IC	Cable Ties and More	HSK3-1-KIT-BK	1	3:1 Shrink Black 6 sizes, 110 pcs 6" Length	23-Mar-17
23	IC	Cable Ties and More	WL923	1	3/4" Diameter Split Wire Loom 100' Roll	23-Mar-17
24	IC	Allied Electronics	571-1011-267-0605	20	DT BACKSHELL 180 6way plug, DT06-6S	23-Mar-17
25	IC	Automation Direct	29892469184	1	Type MTW wire, 20 AWG, 10-strand, bare copper, red insulation, 600V, 500 ft spool. Alternate part ID: 029892469184.	23-Mar-17

APPENDIX I

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

APPENDIX II

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

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

APPENDIX III

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

APPENDIX IV

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
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

APPENDIX V

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
Grand Total:	\$330.61

APPENDIX VI

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

APPENDIX VII

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

Subtotal:	\$96.54
Shipping:	\$8.99
Grand Total:	\$105.53

APPENDIX VIII

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
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	
2	879-115G1	115G1	Heavy Duty Power Connectors PP PAK-2-4P HDWE PAK-CABLE	5	\$1.32	\$6.60	
3	879-110G9	110G9	Heavy Duty Power Connectors SNAP-IN RECEPTACLE RETAINING PINS	25	\$0.20	\$5.00	
4	879-1470G1	1470G1	Heavy Duty Power Connectors PP PAK 2-4P HSG SNAP-IN RECEPT	5	\$2.94	\$14.70	
5	879-1460G1	1460G1	Heavy Duty Power Connectors PP PAK 2-4P HSG-PLUG W/LATCH	3	\$2.03	\$6.09	

Subtotal:	\$34.84
Tax / Shipping:	
Grand Total:	

Instructor Approval: _____

Cart URL: <http://www.mouser.com/ProjectManager/ProjectDetail.aspx?AccessID=c3a7aeb54d>

APPENDIX IX

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 20

Requested By: GLV (Kyle)
Requested Date: 23-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	AD5593RBRUZ-ND	AD5593R	8 Channel, ADC/DAC Chip	3	\$7.90	\$23.70	
2	MCP6004T-I/STCT-ND	MCP6004	Quad Op Amp	5	\$0.45	\$2.25	
3	BSS84CT-ND	BSS84	MOSFET P-CH 50V 130MA SOT-23	10	\$0.19	\$1.94	
4	Z1013-ND	G5LE-14 DC24	Single Pole Double Throw 24V Relay	4	\$1.33	\$5.32	

Subtotal:	\$33.21
Tax / Shipping:	
Grand Total:	

Instructor Approval: _____

Cart URL: <http://www.digikey.com/short/321nj3>

APPENDIX X

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
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	

Subtotal:	\$37.76
Shipping Fees	
Grand Total:	

Instructor Approval: _____

URL: <http://www.newark.com/deutsch/dt048p-cl06/receptacle-flange-thin-wall-8/dp/77R3075>

APPENDIX XI

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 22

Requested By: Larisa Chiesa
Requested Date: 3/23/2017
Ship By: Ground

Vendor: Wire Care
Web Site: 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	
2	0460-202-16141	Male pin 16 - 20 AWG	200	\$0.593	\$118.60	

Subtotal:	\$185.80
Shipping Fees	
Grand Total:	

Instructor Approval: _____

APPENDIX XII

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>

APPENDIX XIII

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	\$3.05	\$61.00	

Subtotal:	\$61.00
Shipping Fees:	
Grand Total:	

Instructor Approval: _____

URL: http://www.alliedelec.com/te-connectivity-1011-267-0605/70696119/?utm_source=FindChips&utm_medium=buyNow

APPENDIX XIV

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	

Shipping Fees	\$25.00
Shipping Fees	\$6.00
Grand Total:	\$31.00

Department Approval: _____

Cart URL: https://www.automationdirect.com/adc/Shopping/Catalog/Wiring_Solutions/Electrical_Hook-Up_-z-_Building_Wire/Insulation_Type_-_MTW/MTW20RD