

Project Status Letter PSL Number: PSL_05

Covering period: 03/04-03/10

Prepared by: J. Mahati Hari and Rachel Szteinberg

Task Summary from Previous Week / Proposed Changes:

TEAM	TASKS COMPLETED	FURTHER INVESTIGATION	PROPOSED CHANGES
VSCADA	[VSC.1.1]- Setup Server [VSC.1.2]- Configured java DB handler- demonstrated w/ dummy data [VSC.3.3]- Delivered data via sockets [VSC.3.6]- ATP Delivered [VSC.4.3]- CDR Delivered	N/A	N/A
Cell App	No data	No data	No data
DYNO	[DYNO.5.2]- CDR delivered	N/A	N/A
TSV	[TSV 1.7]-Debugged communication between PACKMan and AMS boards [TSV 2.1]- Mechanically assembled all parts [TSV 2.4]- Integration of AMS System with pack [TSV 3.1]- All packs fully assembled [TSV 6.2]- CDR delivered	? - Documentation on website	[+] Debugged packX
TSI	[TSI.7.2]- CDR delivered	N/A	N/A
Cooling	[COOL.7.2]- CDR delivered	? - [COOL.2.1]- Cooling controller algorithm written - automatic mode ? - [COOL.2.2]- Cooling	N/A

		controller algorithm written - manual mode ? - [COOL] -CANBus interfacing	
Systems Engineering	[M.2.1]- CDR report delivered [M.2.2]- CDR presentation delivered	N/A	N/A
GLV	[GLV.6.2]- CDR delivered	[GLV.4.2]- GLV BoB Delivered	[+] Acquire GLV enclosure
Interconnect	[IC.2.1]- Assembled cables for TSI [IC.2.3]- Assembled cables for TSV [IC.2.5]- Assembled cables for GLV	N/A	[C] [IC.2.2]- tested through integration [C] [IC.2.4]- Tested through integration [C] [IC.2.6]- Tested through integration
Communications	No Data	No Data	No Data
Car Physics Investigation	No Data	No Data	No Data
MGMT	[M.2] CDR Delivered [M.2.1] CDR Report Delivered [M.2.2] CDR Presentation Delivered [M.2.3] Subsystem BoMs Delivered [M.2.4] WBS rev0.2 delivered [M.2.5] Meeting Minutes Delivered	N/A	[+] [M.2.3]- Individual to' Subsystem' BoM delivered [M.11.2]- [-]"summarized tables of interest" [+] Statistical Analysis [+] Summary tables

Plan for next week:

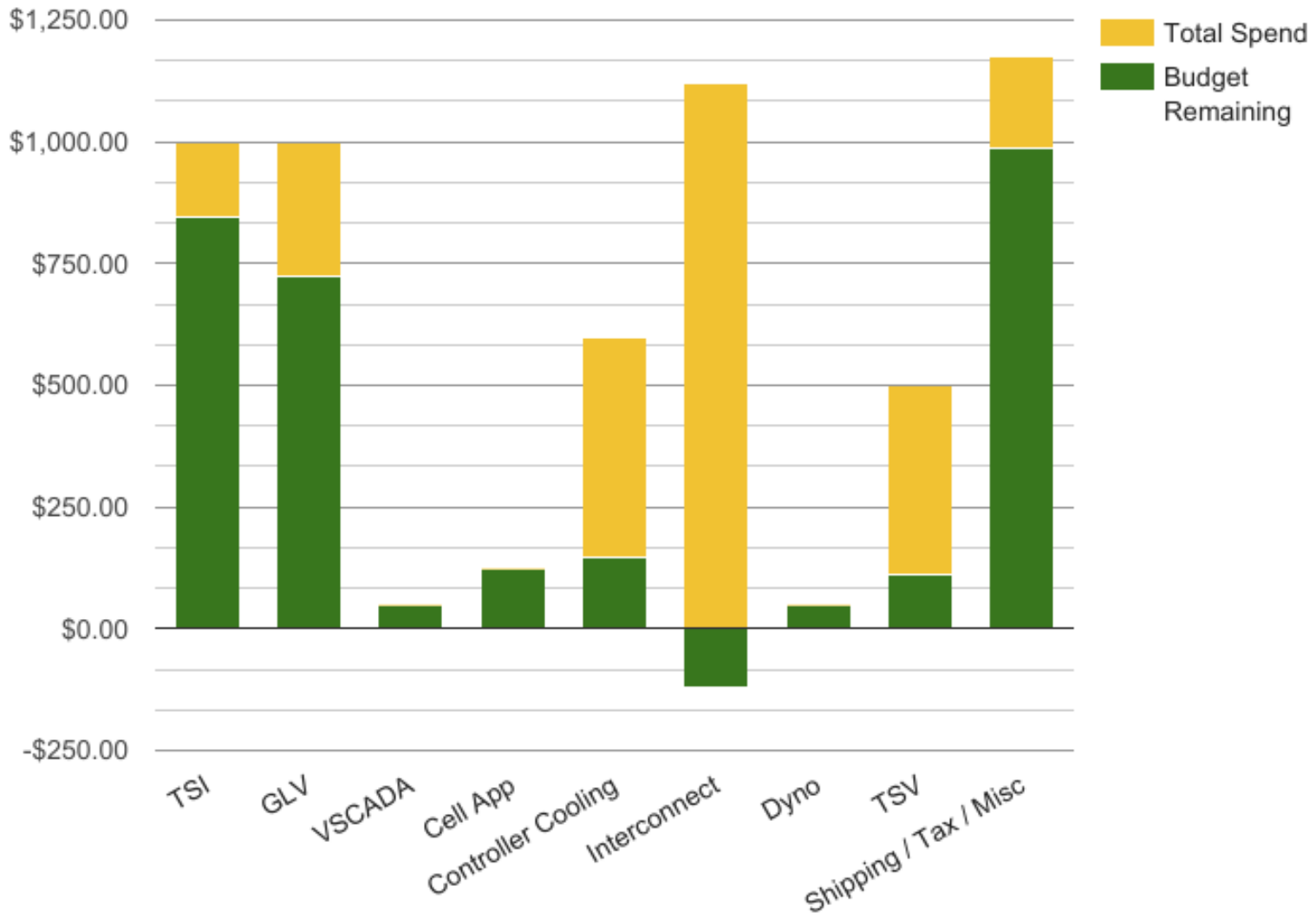
TEAM	TASKS TO BE COMPLETED
VSCADA	[VSC.2.1]- Demonstrated Maintenance view [VSC.3.4]- Config UI delivered
Cell App	No Data
DYNO	[DYNO.2.1]- Demonstrated power supply communication [DYNO.2.2]- Demonstrated functional resistance meter flip [DYNO.2.3]- Demonstrated addition of MECHE/EE parameters
TSV	[TSV 2.5]- Connection/stress tested of integrated AMS with load [TSV 1.5]- All PACKMan Boards populated and debugged
TSI	No Data
Cooling	? - [COOL.6.2.]- Cooling fan integrated
Systems Engineering	[M.5.1]- finish ATP plan
GLV	[+] Acquire GLV enclosure - [to be added] [GLV.1.2]- tested the battery
Interconnect	[IC.1.2]-Test plan approved [IC.4.1]- Built GLV safety loop cables [IC.3.5]- Assembled all W7 cables [IC.3.21]-Assembled all W31 cables
Communications	No Data
Car Physics Investigation	No Data
MGMT	Make all proposed changes to WBS

Cost Summary:

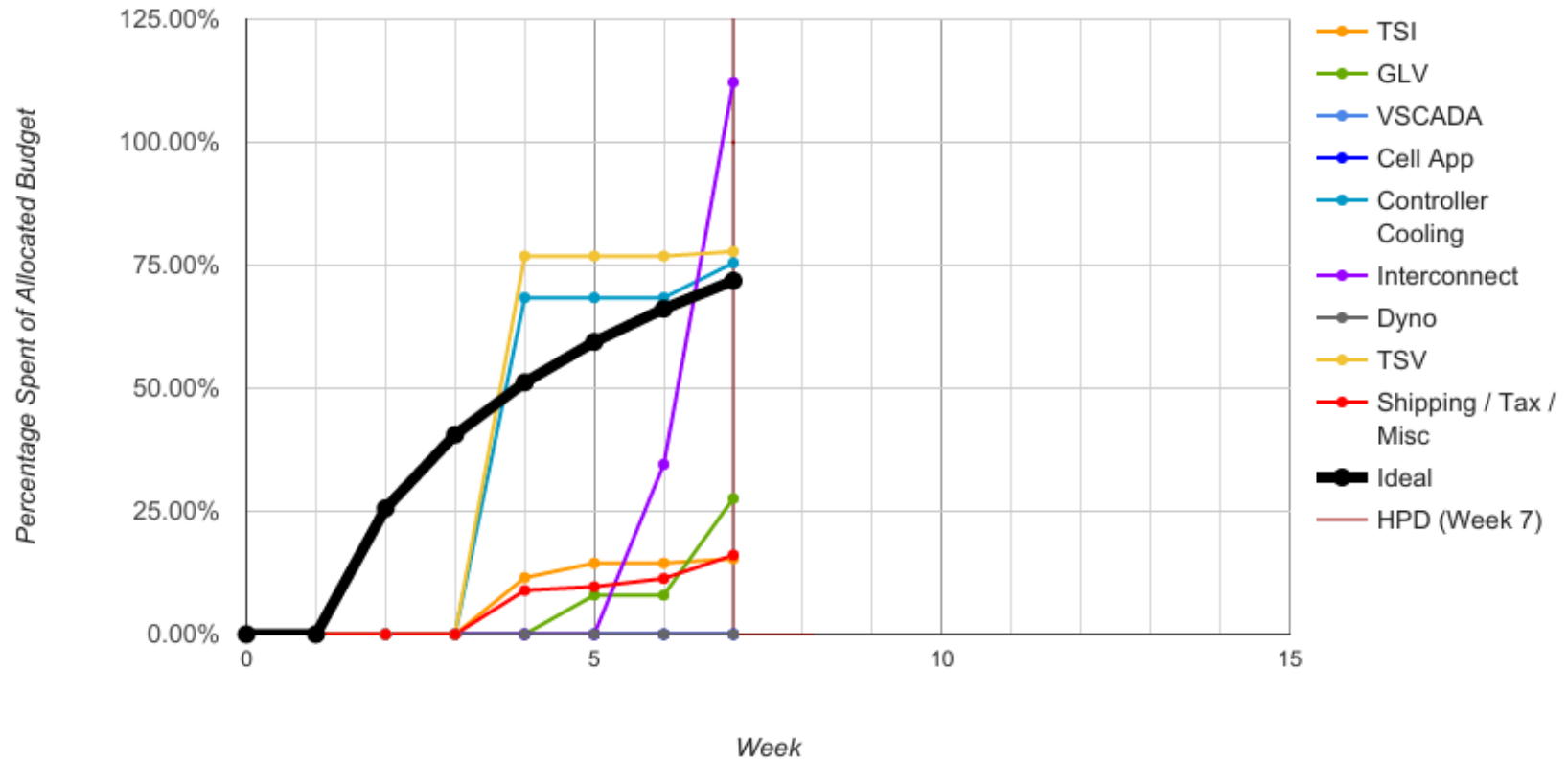
Subsystem	Spent this period	Spent to date	Budget Allocated	Budget Remaining	Percentage Spent
TSI	\$9.00	\$153.61	\$1,000	\$846.39	15.36%
GLV	\$196.27	\$275.82	\$1,000	\$724.18	27.58%
VSCADA	\$0.00	\$0	\$50	\$50.00	0.00%
Cell App	\$0.00	\$0	\$125	\$125.00	0.00%
Controller Cooling System	\$42.45	\$452.92	\$600	\$147.08	75.49%
Interconnect / Cabling / ICD	\$776.87	\$1122.20	\$1,000	-\$122.20	112.20%
Dyno	\$0.00	\$0	\$50	\$50.00	0.00%
TSV	\$4.64	\$388.95	\$500	\$111.05	77.79%
Physics & Cruise Control	\$0.00	\$0	\$0	-	-
Shipping / Tax / Misc	\$55.76	\$188.95	\$1,175	\$986.06	16.08%
Total	\$1,084.99	\$2,582.44	\$5,500	\$2,917.56	46.95%

As shown above, the Interconnect/Cabling/ICD Subsystem has spent over their allocated budget. This is due to needing more materials than expected / materials that are expensive and cannot be bought in smaller quantities. The overage expenses should not cause the team to be over the total \$5,500 budget since the Mechanical team has been generously ordering several large purchases, leaving us over \$500 of previously-allocated budget. Additionally, the allocated \$1,175 for Shipping/Tax/Misc was created with cases such as this in mind, and thus can be used to cover this overspending.

Budget Spending

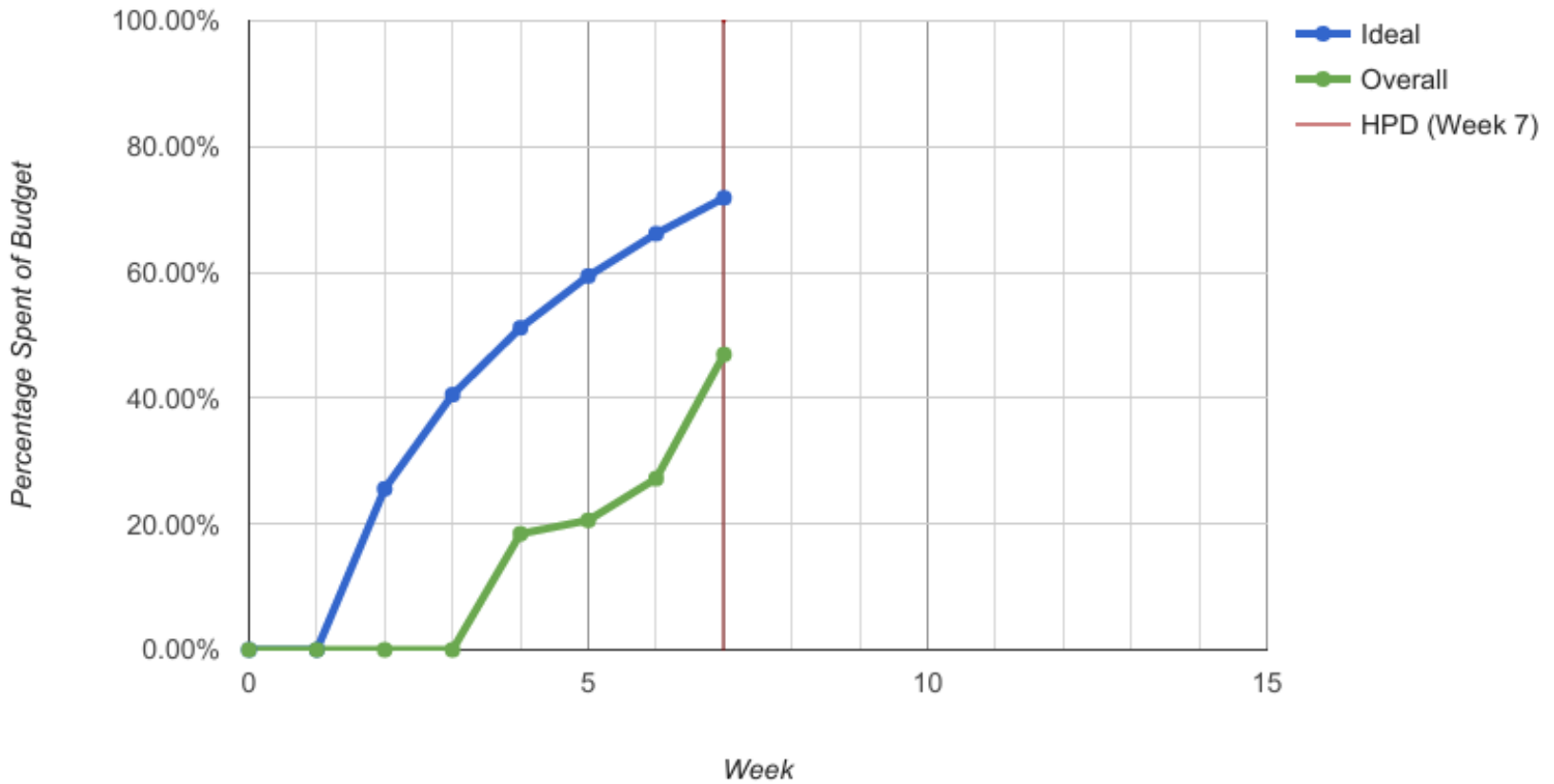


Percentage Spent of Subsystem Budget Allocations



Ideally Spent per Subsystem (by Week 7): 71.86%

Percentage Spent of Total Budget



Ideally Spent Overall (by Week 7): 71.86%

Receiving Report:

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

Request #12 – IC** – Wire and Cable Your Way – Cables (Appendix III)

Request #17 – IC** (paid for by Department) – Grainger - Crimper (Appendix VIII)

*Note: One of the five items from Request #10 has not yet been received and thus is not listed below

**IC stands for Interconnect/Cabling/ICD

The following items were received this period and can be found in the appendices listed above:

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date	Received Date
10	TSV	Sears	00934555000P	1	Craftsman 12 pc. Nutdriver Set in Zippered Case	6-Mar -17	9-Mar-17
10	TSV	Sears	00946298000P	17	Craftsman 7 pc. Metric T-Handle Hex Key Set	6-Mar -17	10-Mar-17
10	TSV	Sears	00953155000P	11	Craftsman 155-Piece Mechanics Tool Set with 75 Tooth Ratchets	6-Mar -17	10-Mar-17
10	TSV	Sears	00941633000P	10	Craftsman 10 pc. Screwdriver Set	6-Mar -17	10-Mar-17
12	IC	Wire and Cable Your Way	SJO16s2	50	16/2 SJOOW Portable Cord 300V UL/CSA	7-Mar -17	10-Mar-17
12	IC		SJO12s3	65	12/3 SJOOW Portable Cord 300V UL/CSA	7-Mar -17	10-Mar-17
12	IC		SOO16s12	15	16/12 SOOW Portable Cord 600V UL/CSA	7-Mar -17	10-Mar-17
12	IC		SOO16s8	30	16/8 SOOW Portable Cord 600V UL/CSA	7-Mar -17	10-Mar-17
12	IC		GXL20	1	20 AWG GXL Automotive Primary Wire, 500' or 1000' Spool (Red)	7-Mar -17	10-Mar-17
17	IC	Grainger	25D147	1	19-1/2"L Crimper, 6 to 4/0 AWG	9-Mar-17	10-Mar-17

Purchase Requests:

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 #12 – IC** – Wire and Cable Your Way – Cables (Appendix III)

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

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

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

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

Request #17 – IC** – Grainger - Crimper (Appendix VIII)

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

*Note: One of the five items from Request #10 has not yet been received

**IC stands for Interconnect/Cabling/ICD

The following items were ordered this period and can be found in the appendices listed above:

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date
10	TSV	Sears	00934555000P	1	Craftsman 12 pc. Nutdriver Set in Zippered Case	6-Mar -17
10	TSV	Sears	00946298000P	17	Craftsman 7 pc. Metric T-Handle Hex Key Set	6-Mar -17
10	TSV	Sears	00953155000P	11	Craftsman 155-Piece Mechanics Tool Set with 75 Tooth Ratchets	6-Mar -17
10	TSV	Sears	SPM7696798322	15	TAMIYA 74047 HG Angled Tweezers TAMR7447	6-Mar -17
10	TSV	Sears	00941633000P	10	Craftsman 10 pc. Screwdriver Set	6-Mar -17
11	TSV	Digikey	296-13493-1-ND	10	IC INVERTER DUAL 1INPUT SC70-6	6-Mar -17
11	TSI	Digikey	BKCT3134-2-ND	1	DIY 4MM SHTH JACK-RED	6-Mar -17
11	TSI	Digikey	BKCT3134-0-ND	2	DIY 4MM SHTH JACK-BLACK	6-Mar -17
11	GLV	Digikey	296-38571-1-ND	5	SENSOR TEMPERATURE SMBUS 8VSSOP	6-Mar -17
11	GLV	Digikey	Z2254-ND	5	RELAY GEN PURPOSE SPST 10A 24V	6-Mar -17
11	GLV	Digikey	296-34970-1-ND	10	IC LOAD SW HIGH SIDE 6SOT	6-Mar -17
11	GLV	Digikey	PB192-ND	1	CIR BRKR THRM 15A 250VAC 32VDC	6-Mar -17
11	GLV	Digikey	PB189-ND	1	CIR BRKR THRM 8A 250VAC 32VDC	6-Mar -17
11	GLV	Digikey	GH1367-ND	2	SWITCH PUSH SPST-NO 0.15A 5V	6-Mar -17

11	GLV	Digikey	GH1368-ND	2	SWITCH PUSH SPST-NO 0.15A 5V	6-Mar -17
12	IC	Wire and Cable Your Way	SJO16s2	50	16/2 SJOOW Portable Cord 300V UL/CSA	7-Mar -17
12	IC		SJO12s3	65	12/3 SJOOW Portable Cord 300V UL/CSA	7-Mar -17
12	IC		SOO16s12	15	16/12 SOOW Portable Cord 600V UL/CSA	7-Mar -17
12	IC		SOO16s8	30	16/8 SOOW Portable Cord 600V UL/CSA	7-Mar -17
12	IC		GXL20	1	20 AWG GXL Automotive Primary Wire, 500' or 1000' Spool (Red)	7-Mar -17
13	IC	Mouser	571-DT04-2P-L012	10	Connectors DT RECP ASM RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W2-P	20	Connectors WEDGE LOCK FOR 2P RECHOUSING RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-3P-L012	5	Connectors DT 3WAY RECEPTACLE FLANGE MOUNT RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W3-P	10	Connectors WEDGE LOCK FOR 3WAY REC HSNR RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W3-S	10	Connectors WEDGE LOCK FOR 3WAY PLUG RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-4P-L012	5	Connectors SZ 4 WAY RECP DT FLANGE MOUNT RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-6P-CL09	10	Connectors DT RECP ASM RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT06-6S	5	Connectors PLUG DT 6 WAY RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W8-P	10	Connectors WEDGE LOCK FOR 8WAY REC RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-12PA-L012	5	Connectors DT 12 WAY REC W/ FLANGE RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W12P	10	Connectors WEDGELOCK DT 12 WAY RECP RoHS Compliant	7-Mar -17
13	IC	Mouser	571-114017	50	Connectors SEALING PLUG SZ 12-16 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-160001	15	Terminals TERM,SOLIS R 2/0 M10 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-323127	100	Terminals SPADE 22-16AWG 6 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-2-520184-2	100	Terminals INSULATED RECP 22-18 .250 x .032 RoHS Compliant	7-Mar -17

13	IC	Mouser	571-25201032	100	Terminals TAB 22-18AWG .250 .250 x .032 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-776164-1	2	Connectors PLG 35 POS F/H BLK	7-Mar -17
13	IC	Mouser	571-7708541	100	Connectors RECEPT CONTACT LOOSE	7-Mar -17
13	IC	Mouser	571-776463-1	2	Connectors WIRE RELIEF, PLUG 35 POS	7-Mar -17
14	Cooling	Amazon	-	1	Swiftech MCRES Micro Revision 2 Reservoir	8-Mar-17
14	Cooling	Amazon	-	1	Precision Brand M12S Micro Seal 9/16 inches	8-Mar-17
15	IC	Brady	BMP21-PLUS-KIT1	1	BMP21-PLUS Printer Kit	8-Mar-17
15	IC	Brady	M21-250-C-342	1	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	8-Mar-17
15	IC	Brady	M21-375-C-342	1	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	8-Mar-17
16	GLV	EV West	-	1	First Technology Inertia Switch - 360 degree Resettable Crash Sensors	8-Mar-17
17	IC	Grainger	25D147	1	19-1/2"L Crimper, 6 to 4/0 AWG	9-Mar-17
18	GLV	Digikey	ADS7823E/250CT-ND	3	IC 12-BIT LP A/D CONV 8VSSOP	9-Mar-17
18	GLV	Digikey	LTC2631ITS8-LM12#TRMPBFCT-ND	2	IC DAC 12BIT VOUT TSOT23-8	9-Mar-17
18	GLV	Digikey	350-2645-ND	3	LED PANEL IND 5V 15MA RED	9-Mar-17
18	GLV	Digikey	RMCF0805JT10K0CT-ND	100	RES SMD 10K OHM 5% 1/8W 0805	9-Mar-17
18	GLV	Digikey	RMCF0805JT120RCT-ND	100	RES SMD 120 OHM 5% 1/8W 0805	9-Mar-17
18	GLV	Digikey	RNCF0805TKY250RCT-ND	10	RES SMD 250 OHM 0.01% 1/8W 0805	9-Mar-17
18	GLV	Digikey	311-100CRCT-ND	100	RES SMD 100 OHM 1% 1/8W 0805	9-Mar-17
18	GLV	Digikey	P1.0KADCT-ND	25	RES SMD 1K OHM 5% 1/2W 0805	9-Mar-17
18	GLV	Digikey	SK310A-LTPMSCT-ND	10	DIODE SCHOTTKY 100V 3A DO214AC	9-Mar-17
18	GLV	Digikey	CSNL1206FT1L00CT	50	RES SMD 0.001 OHM 1% 1W 1206	9-Mar-17

Outstanding Orders:

Request #10 – Only Tweezers (Appendix I)

Request #11 – All Items (Appendix II)

Request #13 – All Items Appendix IV)

Request #14 – All Items (Appendix V)

Request #15 – All Items (Appendix VI)

Request #16 – All Items (Appendix VII)

Request #18 – All Items (Appendix IX)

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

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date
10	TSV	Sears	SPM7696798322	15	TAMIYA 74047 HG Angled Tweezers TAMR7447	6-Mar -17
11	TSV	Digikey	296-13493-1-ND	10	IC INVERTER DUAL 1INPUT SC70-6	6-Mar -17
11	TSI	Digikey	BKCT3134-2-ND	1	DIY 4MM SHTH JACK-RED	6-Mar -17
11	TSI	Digikey	BKCT3134-0-ND	2	DIY 4MM SHTH JACK-BLACK	6-Mar -17
11	GLV	Digikey	296-38571-1-ND	5	SENSOR TEMPERATURE SMBUS 8VSSOP	6-Mar -17
11	GLV	Digikey	Z2254-ND	5	RELAY GEN PURPOSE SPST 10A 24V	6-Mar -17
11	GLV	Digikey	296-34970-1-ND	10	IC LOAD SW HIGH SIDE 6SOT	6-Mar -17
11	GLV	Digikey	PB192-ND	1	CIR BRKR THRM 15A 250VAC 32VDC	6-Mar -17
11	GLV	Digikey	PB189-ND	1	CIR BRKR THRM 8A 250VAC 32VDC	6-Mar -17
11	GLV	Digikey	GH1367-ND	2	SWITCH PUSH SPST-NO 0.15A 5V	6-Mar -17
11	GLV	Digikey	GH1368-ND	2	SWITCH PUSH SPST-NO 0.15A 5V	6-Mar -17
13	IC	Mouser	571-DT04-2P-L012	10	Connectors DT RECP ASM RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W2-P	20	Connectors WEDGE LOCK FOR 2P RECHOUSING RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-3P-L012	5	Connectors DT 3WAY RECEPTACLE FLANGE MOUNT RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W3-P	10	Connectors WEDGE LOCK FOR 3WAY REC HSNR RoHS Compliant	7-Mar -17

13	IC	Mouser	571-W3-S	10	Connectors WEDGE LOCK FOR 3WAY PLUG RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-4P-L012	5	Connectors SZ 4 WAY RECP DT FLANGE MOUNT RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-6P-CL09	10	Connectors DT RECP ASM RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT06-6S	5	Connectors PLUG DT 6 WAY RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W8-P	10	Connectors WEDGE LOCK FOR 8WAY REC RoHS Compliant	7-Mar -17
13	IC	Mouser	571-DT04-12PA- L012	5	Connectors DT 12 WAY REC W/ FLANGE RoHS Compliant	7-Mar -17
13	IC	Mouser	571-W12P	10	Connectors WEDGELOCK DT 12 WAY RECP RoHS Compliant	7-Mar -17
13	IC	Mouser	571-114017	50	Connectors SEALING PLUG SZ 12-16 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-160001	15	Terminals TERM,SOLIS R 2/0 M10 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-323127	100	Terminals SPADE 22-16AWG 6 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-2-520184-2	100	Terminals INSULATED RECP 22-18 .250 x .032 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-25201032	100	Terminals TAB 22-18AWG .250 .250 x .032 RoHS Compliant	7-Mar -17
13	IC	Mouser	571-776164-1	2	Connectors PLG 35 POS F/H BLK	7-Mar -17
13	IC	Mouser	571-7708541	100	Connectors RECEPT CONTACT LOOSE	7-Mar -17
13	IC	Mouser	571-776463-1	2	Connectors WIRE RELIEF, PLUG 35 POS	7-Mar -17
14	Cooling	Amazon	-	1	Swiftech MCRES Micro Revision 2 Reservoir	8-Mar-17
14	Cooling	Amazon	-	1	Precision Brand M12S Micro Seal 9/16 inches	8-Mar-17
15	IC	Brady	BMP21-PLUS-KIT1	1	BMP21-PLUS Printer Kit	8-Mar-17
15	IC	Brady	M21-250-C-342	1	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	8-Mar-17
15	IC	Brady	M21-375-C-342	1	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	8-Mar-17
16	GLV	EV West	-	1	First Technology Inertia Switch - 360 degree Resettable Crash Sensors	8-Mar-17

18	GLV	Digikey	ADS7823E/250CT-ND	3	IC 12-BIT LP A/D CONV 8VSSOP	9-Mar-17
18	GLV	Digikey	LTC2631ITS8-LM12#TRMPBFCT-ND	2	IC DAC 12BIT VOUT TSOT23-8	9-Mar-17
18	GLV	Digikey	350-2645-ND	3	LED PANEL IND 5V 15MA RED	9-Mar-17
18	GLV	Digikey	RMCF0805JT10K0CT-ND	100	RES SMD 10K OHM 5% 1/8W 0805	9-Mar-17
18	GLV	Digikey	RMCF0805JT120RCT-ND	100	RES SMD 120 OHM 5% 1/8W 0805	9-Mar-17
18	GLV	Digikey	RNCF0805TKY250RCT-ND	10	RES SMD 250 OHM 0.01% 1/8W 0805	9-Mar-17
18	GLV	Digikey	311-100CRCT-ND	100	RES SMD 100 OHM 1% 1/8W 0805	9-Mar-17
18	GLV	Digikey	P1.0KADCT-ND	25	RES SMD 1K OHM 5% 1/2W 0805	9-Mar-17
18	GLV	Digikey	SK310A-LTPMSCT-ND	10	DIODE SCHOTTKY 100V 3A DO214AC	9-Mar-17
18	GLV	Digikey	CSNL1206FT1L00CT	50	RES SMD 0.001 OHM 1% 1W 1206	9-Mar-17

APPENDIX I

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 10

Requested By: TSV (Emilie)
Requested Date: 6-Mar-17
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	00950209000P	36010	Craftsman 10 pc. Nutdriver Set in Zippered Case	1	\$35.99	\$35.99	9-Mar-17
2	00946384000P	46384	Craftsman 7 pc. Metric T-Handle Hex Key Set	1	\$35.99	\$35.99	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	
5	00941633000P	56710C	Craftsman 10 pc. Screwdriver Set	1	\$24.99	\$24.99	9-Mar-17

Subtotal:	\$198.33
Shipping Fees:	\$16.76
Grand Total:	\$215.09

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	
2	TSI	BKCT3134-2-ND	CT3134-2	DIY 4MM SHTH JACK-RED	1	\$3.000	\$3.00	
3	TSI	BKCT3134-0-ND	CT3134-0	DIY 4MM SHTH JACK-BLACK	2	\$3.000	\$6.00	
4	GLV	296-38571-1-ND	TMP275AIDGKR	SENSOR TEMPERATURE SMBUS 8VSSOP	5	\$3.430	\$17.15	
5	GLV	Z2254-ND	G5LE-1A4 DC24	RELAY GEN PURPOSE SPST 10A 24V	5	\$1.300	\$6.50	
6	GLV	296-34970-1-ND	TPS27081ADDCR	IC LOAD SW HIGH SIDE 6SOT	10	\$0.460	\$4.60	
7	GLV	PB192-ND	W28-XQ1A-15	CIR BRKR THRM 15A 250VAC 32VDC	1	\$3.260	\$3.26	
8	GLV	PB189-ND	W28-XQ1A-8	CIR BRKR THRM 8A 250VAC 32VDC	1	\$3.260	\$3.26	
9	GLV	GH1367-ND	30-601 BLK	SWITCH PUSH SPST-NO 0.15A 5V	2	\$3.040	\$6.08	
10	GLV	GH1368-ND	30-601 RED	SWITCH PUSH SPST-NO 0.15A 5V	2	\$3.040	\$6.08	

Subtotal:	\$60.57
Shipping:	
Grand Total:	

Instructor Approval: _____

Cart URL: <http://www.digikey.com/short/32zffb>

APPENDIX III

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
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

APPENDIX IV

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 13

Requested By: IC (Jeremy)
Requested Date: 3/7/2017
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	
2	571-W2-P	W2-P	Automotive Connectors WEDGE LOCK FOR 2P RECHOUSING RoHS Compliant	20	\$0.105	\$2.10	
3	571-DT04-3P-L012	DT04-3P-L012	Automotive Connectors DT 3WAY RECEPTACLE FLANGE MOUNT RoHS Compliant	5	\$4.770	\$23.85	
4	571-W3-P	W3-P	Automotive Connectors WEDGE LOCK FOR 3WAY REC HSNG RoHS Compliant	10	\$0.126	\$1.26	
5	571-W3-S	W3-S	Automotive Connectors WEDGE LOCK FOR 3WAY PLUG RoHS Compliant	10	\$0.126	\$1.26	
6	571-DT04-4P-L012	DT04-4P-L012	Automotive Connectors SZ 4 WAY RECP DT FLANGE MOUNT RoHS Compliant	5	\$5.140	\$25.70	
7	571-DT04-6P-CL09	DT04-6P-CL09	Automotive Connectors DT RECP ASM RoHS Compliant	10	\$21.240	\$212.40	
8	571-DT06-6S	DT06-6S	Automotive Connectors PLUG DT 6 WAY RoHS Compliant	5	\$2.570	\$12.85	
9	571-W8-P	W8-P	Automotive Connectors WEDGE LOCK FOR 8WAY REC RoHS Compliant	10	\$0.255	\$2.55	
10	571-DT04-12PA-L012	DT04-12PA-L012	Automotive Connectors DT 12 WAY REC W/ FLANGE RoHS Compliant	5	\$8.510	\$42.55	
11	571-W12P	W12P	Automotive Connectors WEDGELOCK DT 12 WAY RECP RoHS Compliant	10	\$0.280	\$2.80	
12	571-114017	114017	Automotive Connectors SEALING PLUG SZ 12-16 RoHS Compliant	50	\$0.482	\$24.10	
13	571-160001	160001	Terminals TERM,SOLIS R 2/0 M10 RoHS Compliant	15	\$3.370	\$50.55	
14	571-323127	323127	Terminals SPADE 22-16AWG 6 RoHS Compliant	100	\$0.177	\$17.70	
15	571-2-520184-2	2-520184-2	Terminals INSULATED RECP 22-18 .250 x .032 RoHS Compliant	100	\$0.180	\$18.00	
16	571-25201032	2-520103-2	Terminals TAB 22-18AWG .250 .250 x .032 RoHS Compliant	100	\$0.177	\$17.70	
17	571-776164-1	776164-1	Automotive Connectors PLG 35 POS F/H BLK	2	\$10.700	\$21.40	
18	571-7708541	770854-1	Automotive Connectors RECEPT CONTACT LOOSE	100	\$0.128	\$12.80	
19	571-776463-1	776463-1	Automotive Connectors WIRE RELIEF, PLUG 35 POS	2	\$3.060	\$6.12	

Subtotal:	\$527.39
Shipping Fees:	
Grand Total:	

Instructor Approval: _____

Department Approval: _____
 (Over \$500)

Cart URL: <http://www.mouser.com/ProjectManager/ProjectDetail.aspx?AccessID=48b7dd94bd>

APPENDIX V

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	
2	1	Hose Clamps	Precision Brand M12S Micro Seal 9/16 inches	\$14.46	\$14.46	

Subtotal:	\$42.45
Shipping Fees	
Grand Total:	

Instructor Approval: _____

APPENDIX VI

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 15

Requested By: IC (Jeremy)
Requested Date: 3/8/2017
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	
2	M21-250-C-342	110925	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	1	\$57.19	\$57.19	
3	M21-375-C-342	110926	Label Cartridge for BMP21 Series, ID PAL, LabPal Printers, White	1	\$64.39	\$64.39	

Shipping Fees	\$316.58
Shipping Fees	\$14.03
Grand Total:	\$330.61

Instructor Approval: _____

APPENDIX VII

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 16

Requested By: GLV (Joe)
Requested Date: 3/8/2017
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	

Shipping Fees	\$52.80
Shipping Fees	
Grand Total:	

Instructor Approval: _____

Cart URL: http://www.evwest.com/catalog/product_info.php?products_id=281

APPENDIX VIII

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

APPENDIX IX

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/250CT-ND	ADS7823E/250	IC 12-BIT LP A/D CONV 8VSSOP	3	\$7.6500	\$22.95	
2	LTC2631ITS8-LM12#TRMPBFCT- ND	LTC2631ITS8-LM12#TRMPBF	IC DAC 12BIT VOUT TSOT23-8	2	\$4.2800	\$8.56	
3	350-2645-ND	50747573731500F	LED PANEL IND 5V 15MA RED	3	\$6.1300	\$18.39	
4	RMCF0805JT10K0CT-ND	RMCF0805JT10K0	RES SMD 10K OHM 5% 1/8W 0805	100	\$0.0061	\$0.61	
5	RMCF0805JT120RCT-ND	RMCF0805JT120R	RES SMD 120 OHM 5% 1/8W 0805	100	\$0.0061	\$0.61	
6	RNCF0805TKY250RCT-ND	RNCF0805TKY250R	RES SMD 250 OHM 0.01% 1/8W 0805	10	\$1.8150	\$18.15	
7	311-100CRCT-ND	RC0805FR-07100RL	RES SMD 100 OHM 1% 1/8W 0805	100	\$0.0077	\$0.77	
8	P1.0KADCT-ND	ERJ-P06J102V	RES SMD 1K OHM 5% 1/2W 0805	25	\$0.0684	\$1.71	
9	SK310A-LTPMSCT-ND	SK310A-LTP	DIODE SCHOTTKY 100V 3A DO214AC	10	\$0.4000	\$4.00	
10	CSNL1206FT1L00CT	CSNL1206FT1L00	RES SMD 0.001 OHM 1% 1W 1206	50	\$0.4158	\$20.79	

Subtotal:	\$96.54
Shipping:	
Grand Total:	

Instructor Approval: _____

Digikey Cart URL: <http://www.digikey.com/short/329cbr>