

Project Status Letter PSL Number: PSL_12
Covering period: 04/21-04/28
Prepared by: Rachel Szteinberg and J. Mahati Hari

Task Summary from Previous Week / Proposed Changes:

Please note that the second column describes what was able to be fully crossed off the WBS by the time of IPR submission. If there is a change that needs to be made, please notify the project manager. This is referenced with WBS v0.3.

TEAM	PREVIOUS WEEK'S SCHEDULED TASKS [AS PER SCHEDULE]	TASKS COMPLETED	FURTHER INVESTIGATION	PROPOSED CHANGES
VSCADA	VSC.3.1 [Demonstrated code to interface with all subsystems] VSC.3.2 [compiled data from individual subsystems] VSC.3.5 [ATR delivered]	VSC.2.5 [Tested Sleep/Shut Down View for Leakage]	None	None
Cell App	CELL.3.5 [ATR delivered] CELL.5.1 [Demonstrated Application in Both Tablet and Mobile Phone Form] CELL.5.2 [Created 'How to Use' Tutorial in App-Help Mode] CELL.6.2 [Demonstrated the Functional UI for Approval]	None	None	None
DYNO	No tasks scheduled	None	None	None
TSV	TSV.4.3 [ATR Delivered]	None	None	None

TSI	<p>TSI.5.8 [ATR Delivered] TSI.7.3 [User Manual Delivered]</p>	<p>TSI 2.3 [Panel Integrated] TSI.3.3 [Drive Button Logic Integrated] TSI 4.2 [Precharge Relay/HV Cabling Mounted] TSI 4.3 [Circuit Boards Mounted Interface] TSI.5.4 [Integrated Throttle Interface] TSI.5.6 [Integrated with Cockpit]</p>	<p>TSI.4.4 [Properly Wired] TSI.4.5 [Mounted Current Sensor TSV Bars] TSI.5.2 [Integrated Physical Box] TSI.5.3 [Integrated Brake]</p>	<p>(+) Poster Presentation</p>
Cooling	<p>COOL.2.3 [Controller Algorithm Tested with Fan] COOL.3.1 [Pump Algorithm Written - Automatic Mode] COOL.4.2 [Tested / Implemented Interface with Safety Loop] COOL.6.1 [Controller Pump Integrated] COOL.6.2 [Cooling Fan Integrated] COOL.6.3 [Temperature Sensors Integrated] COOL.6.5 [Radiator Integrated] COOL.6.6 [LCD Integrated] COOL.7.3 [User Manual Delivered]</p>	<p>None</p>	<p>None</p>	<p>None</p>
Systems Engineering	<p>No tasks scheduled</p>	<p>COOL.6.1 [Controller Pump Integrated] COOL.6.2 [Cooling Fan Integrated] COOL.6.5 [Radiator Integrated] COOL.6.6 [LCD Integrated]</p>	<p>None</p>	<p>(+) "Create proposed changes/tasks for 2018"</p>

GLV	GLV. 5.3[ATR Delivered]	None	None	None
Interconnect	No tasks scheduled	None	None	None
Car Physics Investigation	CC2.1 [Battery Economy/Efficiency Memo Delivered] CC2.2 [Max Car Acceleration Memo Delivered]	PHYS.4.4[Simulated Statics Algorithm] PHYS.4.5[Simulated Dynamics Algorithm]	None	None
JGB	No tasks scheduled	None	None	None
MGMT	No tasks scheduled	None	None	None

Plan for next week:

TEAM	NEXT WEEK'S TASKS [AS PER SCHEDULE]	TASKS TO BE COMPLETED [PROPOSED ON IPR]
VSCADA	VSC.4.4 [User Manual delivered] VSC.4.5 [Final Report delivered] VSC.4.6 [Final Presentation delivered] VSC.4.7 [ICD Document delivered]	VSC.3.2 [Compiled data from individual subsystems]
Cell App	CELL.7.4 [User Manual delivered] CELL.7.5 [Maintenance Manual delivered] CELL.7.6 [Final Report/Poster delivered] CELL.7.7 [Final Presentation delivered] CELL.7.8 [ICD delivered]	CELL.6.2 [Demonstrated the functioning UI for approval] CELL.5.1 [Demonstrated application in both tablet and mobile phone form] CELL.5.2 [Created 'how to use' tutorial in app-help mode]
DYNO	DYNO.5.3 [User Manual Delivered] DYNO.5.4 [Maintenance Manual Delivered] DYNO.5.5 [Final Report delivered] DYNO.5.6 [Final Presentation delivered] DYNO.5.7 [ICD Document delivered]	DYNO.5.5 [Final Report delivered] DYNO.5.6 [Final Presentation delivered]
TSV	TSV.6.3 [User Manual Delivered] TSV.6.4 [Maintenance Manual Delivered] TSV.6.5 [Final Report/Poster Delivered] TSV.6.6 [Final Presentation Delivered] TSV.6.8 [ICD Delivered]	TSV.2.8 [Debugged 4th pack] TSV.6.4 [Maintenance manual delivered]
TSI	TSI.7.4 [Maintenance manual delivered] TSI.7.5 [final report delivered] TSI.7.6 [final presentation delivered] TSI.7.9 [ICD document delivered]	TSI 4.4 [Properly Wired] TSI 5.2 [Integrated Physical Box] TSI 5.3 [Integrated Brake Interface] TSI 5.4[Integrated Throttle Interface] TSI 1.4: PCB debugged TSI 1.5: PCB testing/integration Approved TSI 3.1: Firmware tested TSI 7.6: Final Presentation Delivered

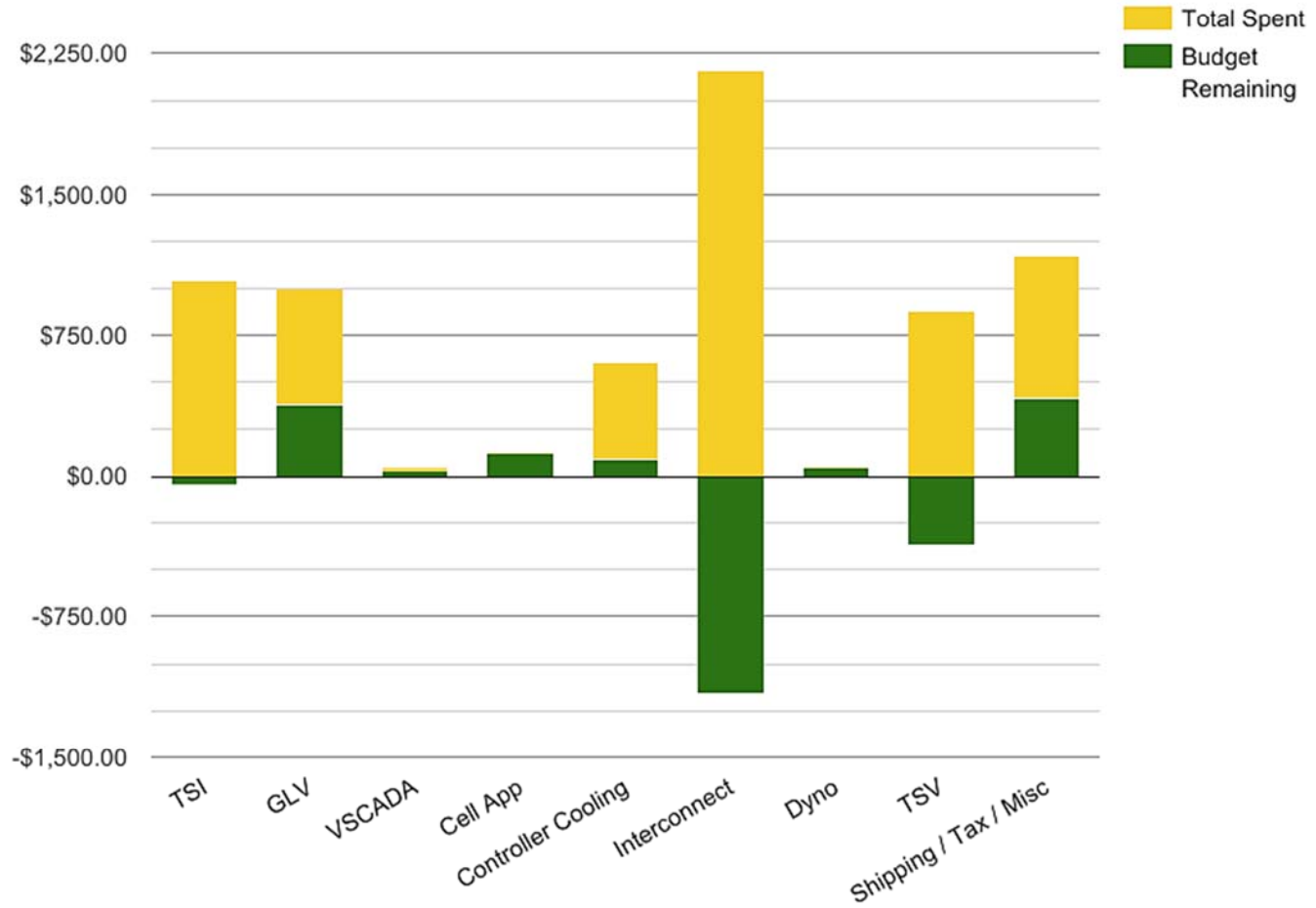
Cooling	COOL.7.3 [User Manual Delivered] COOL.7.4 [Maintenance Manual delivered] COOL.7.5 [Final Report delivered] COOL.7.6 [Final Presentation delivered] COOL.7.7 [ATR delivered] COOL.7.9 [ICD Document delivered] COOL.8.1 [Demonstrated Written Code]	COOL.7.3[User manual delivered] COOL.1.3[Update for electrical schematic diagram]
Systems Engineering	M.3.1[Individual subsystems' manual delivered] M.3.2[overall system's manual delivered] M.4.1[final report delivered] M.4.2 [maintenance manual delivered] M.5.6 [ATR delivered] M.4.3[ICD delivered] M.6.1 [fully integrated/tested] M.6.2 [Presentation Delivered] M.6.3 [posters delivered] M.7.1 [major subsystems documented] M.7.3[overall poster created]	M.5.4 [Photograph Evidence Annotated] M.5.5 [Subsystem Integration Tests Executed]
GLV	GLV.6.3[User manual delivered] GLV.6.4 [maintenance manual delivered] GLV.6.5[Final poster/report delivered] GLV.6.6 [final presentation delivered] GLV.6.8 [ICD document delivered]	GLV.3.7 [HDMI Screen Delivered] GLV.3.8 [VSCADA Buttons Delivered]
Interconnect	IC.4.2 [ICD document delivered] IC.4.4 [User manual delivered] IC.4.5 [final report delivered] IC.4.6 [final presentation delivered]	IC.4.2 [ICD Completed]
Car Physics Investigation	PHYS.5.1[theoretical research documented] PHYS.5.2[algorithm research documented]	PHYS..5.1[theoretical research documented] C.2.1 [Max car acceleration memo delivered]
JGB	None Scheduled – Need to add presentation	JGB 2.1 [Remote to Respond Protocol] JGB 2.2 [Demonstrate CAN to PWM] JGB 2.3[Analog to CAN Data Retrieval]

MGMT	M.3.1[Individual subsystems' manual delivered] M.3.2[overall system's manual delivered] M.4.1[final report delivered] M.4.2 [maintenance manual delivered] M.5.6 [ATR delivered] M.4.3[ICD delivered] M.6.1 [fully integrated/tested] M.6.2 [Presentation Delivered] M.6.3 [posters delivered] M.6.4[fully updated website with all subsystems' documentation] M.7.1 [major subsystems documented] M.7.2[poster linked on website] M.7.3[overall poster created] M.10.1[proposal for furthering project] M.10.2[instructional videos delivered] M.10.3[contacted college communications division] M.11.1[finalized BOMs delivered] M.11.2[cumulative purchase request tables delivered] M.11.3[summary tables by subsystem/week] M.11.4[statistical analysis of purchases delivered]	M.3.1[Individual subsystems' manual delivered] M.3.2[overall system's manual delivered] M.4.1[final report delivered] M.4.2 [maintenance manual delivered] M.5.6 [ATR delivered] M.4.3[ICD delivered] M.6.1 [fully integrated/tested] M.6.2 [Presentation Delivered] M.6.3 [posters delivered] M.6.4[fully updated website with all subsystems' documentation] M.7.1 [major subsystems documented] M.7.2[poster linked on website] M.7.3[overall poster created] M.10.1[proposal for furthering project] M.10.2[instructional videos delivered] M.10.3[contacted college communications division] M.11.1[finalized BOMs delivered] M.11.2[cumulative purchase request tables delivered] M.11.3[summary tables by subsystem/week] M.11.4[statistical analysis of purchases delivered]
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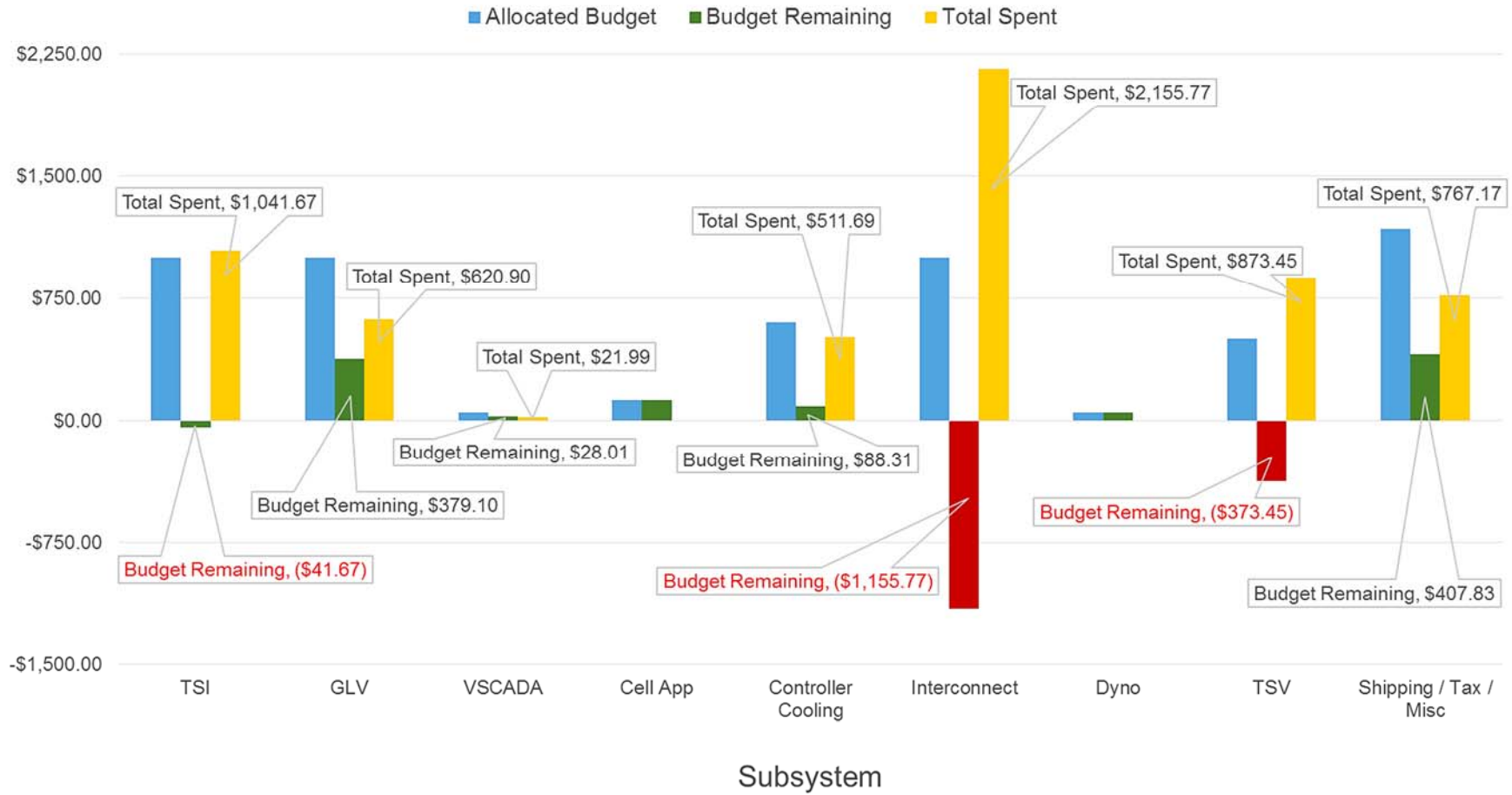
Cost Summary:

Subsystem	Spent this period	Spent to date	Budget Allocated	Budget Remaining	Percentage Spent
TSI	\$36.95	\$1,041.67	\$1,000	-\$41.67	104.17%
GLV	\$0.00	\$620.90	\$1,000	\$379.10	62.09%
VSCADA	\$21.99	\$21.99	\$50	\$28.01	43.98%
Cell App	\$0.00	\$0.00	\$125	\$125.00	0.00%
Controller Cooling System	\$58.77	\$511.69	\$600	\$88.31	85.28%
Interconnect / Cabling / ICD	\$24.40	\$2,155.77	\$1,000	-\$1,155.77	215.58%
Dyno	\$0.00	\$0.00	\$50	\$50.00	0.00%
TSV	\$0.00	\$873.45	\$500	-\$373.45	174.69%
Physics & Cruise Control	\$0.00	\$0	\$0	-	-
JGB	\$0.00	\$0	\$0	-	-
Shipping / Tax / Miscellaneous	\$33.94	\$767.17	\$1,175	\$407.83	65.29%
Total	\$176.05	\$5,992.64	\$5,500	-\$492.64	108.96%

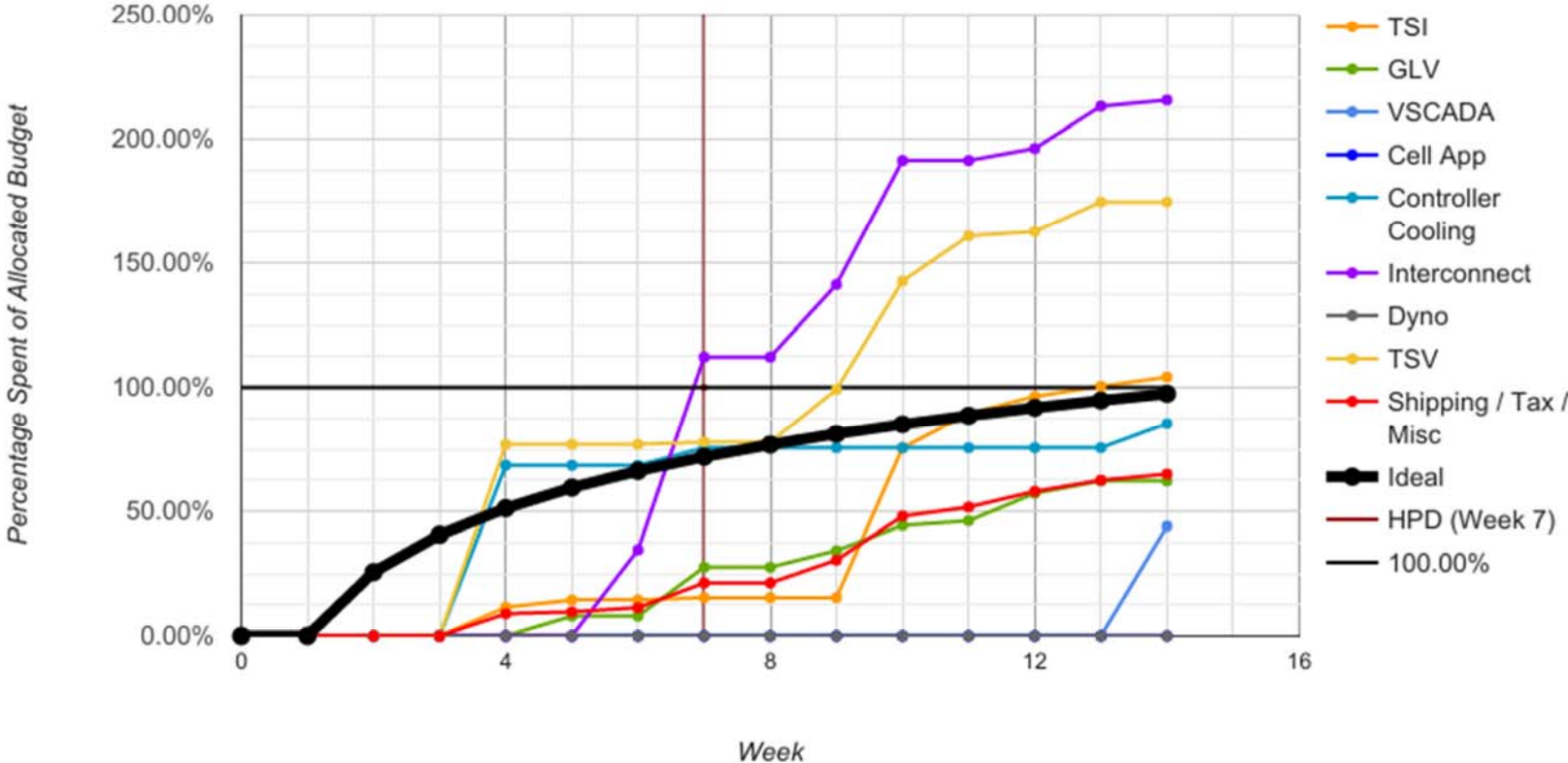
Subsystem Budget Spending



Budget Spending



Percentage Spent of Subsystem Budget Allocations



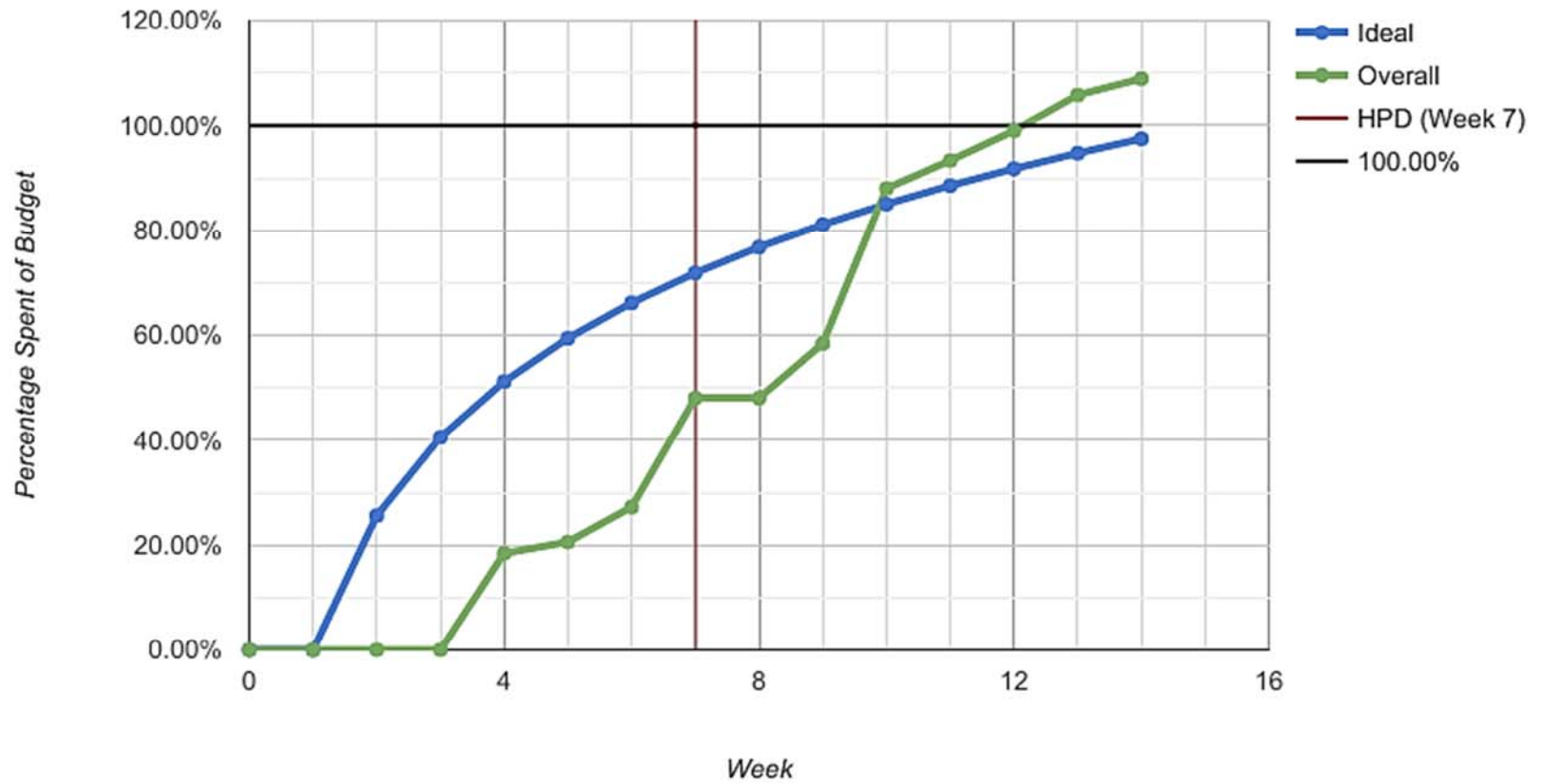
Ideally Spent per Subsystem (by Week 14): 97.45%

Total Spent



● Total Spent
— Budget

Percentage Spent of Total Budget



Ideally Spent Overall (by Week 14): 97.45%

Receiving Report:

The following items were all received during this period:

Purchase Order #46 – TSV/TSI/GLV – Mouser – Corrected Slide Pots, 10K Through-hole resistors, Panel LEDs (Appendix I)

Purchase Order #47** – TSI/IC*/TSV – McMaster – Rubber Trim, Sealant, Pack Labels, Spiral Wrap (Appendix II)

Purchase Order #49 – TSI – Super Bright LEDs – Brake Light Bezel and Plug (Appendix III)

Purchase Order #50 – IC* – Wire Care – 16-20 AWG Pins (Appendix IV)

Purchase Order #51 – IC*/TSI – Mouser – Connectors (Appendix V)

Purchase Order #52 – GLV – McMaster – Cable Holders for Strain Relief (Appendix VI)

Purchase Order #53 – IC* – Allied Electronics – DT06-6S Connectors (Appendix VII)

Purchase Order #54*** – VSCADA/Cooling – Amazon – microSD, Arduino, CAN-BUS Shield (Appendix VIII)

Purchase Order #55 – TSI – McMaster – DIN Rail terminal blocks and jumpers (Appendix IX)

*IC stands for Interconnect/Cabling/ICD

**Only 1 out of 5 items of Purchase Order #47 were received during this period

***Only 2 out of 3 items of Purchase Order #54 were received during this period

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date	Received Date
46	TSV	Mouser	859-LTV-357T	10	Transistor Output Optocouplers Optocoupler Phototrans	18-Apr-17	24-Apr-17
46	TSI	Mouser	652-PTA45532015D PB50	5	Slide Potentiometers 15MM SHAFT NO DET 45MM STRK SNG LIN	18-Apr-17	24-Apr-17
46	TSV	Mouser	859-LTV-357T	10	Transistor Output Optocouplers Optocoupler Phototrans	18-Apr-17	24-Apr-17
46	TSI	Mouser	594-AC05W10K00J	6	Wirewound Resistors - Through Hole 5watts 10Kohms 5%	18-Apr-17	24-Apr-17
46	TSI	Mouser	571-5568802	6	Power to the Board CONTACT AMPINNERGY WTB 10-12	18-Apr-17	24-Apr-17
46	GLV	Mouser	645-6123132120F	2	LED Panel Mount Indicators Red 60mcd 6VDC 15mA	18-Apr-17	24-Apr-17

46	GLV	Mouser	645-6123132130F	1	LED Panel Mount Indicators Red 60mcd 12VDC 15mA	18-Apr-17	24-Apr-17
46	GLV	Mouser	645-6123232140F	2	LED Panel Mount Indicators GREEN 110MCD 24VCD 15MA	18-Apr-17	24-Apr-17
47	TSV	McMaster	8216T66	1	Made-to-Order Peel-and-Stick Message, 1-5 Characters, 1-1/2" High, "1234"	18-Apr-17	26-Apr-17
49	TSI	Super Bright LEDs	PL-3S	1	Straight 3-Pin Plug for Trailer Lights and Truck Lights	20-Apr-17	25-Apr-17
49	TSI	Super Bright LEDs	KC-65	1	PT Series Chrome Bezel with Hood	20-Apr-17	25-Apr-17
50	IC	Wire Care	0462-201-16141	100	Female, Crimp 16 - 20 AWG	20-Apr-17	24-Apr-17
50	IC	Wire Care	0460-202-16141	100	Male pin 16 - 20 AWG	20-Apr-17	24-Apr-17
51	IC	Mouser	571-DT06-2S	10	Automotive Connectors 6WAY RECEPTACLE	21-Apr-17	26-Apr-17
51	IC	Mouser	571-W2-S	10	Pin & Socket Connectors 2 POS MICRO MNL, TOP LATCH, BL	21-Apr-17	26-Apr-17
51	IC	Mouser	571-W6-S	10	Automotive Connectors 6WAY RECEPTACLE	21-Apr-17	26-Apr-17
51	IC	Mouser	571-DT04-6P	5	Pin & Socket Connectors 2 POS MICRO MNL, TOP LATCH, BL	21-Apr-17	26-Apr-17
51	TSI	Mouser	571-2008571-2	10	Automotive Connectors 6WAY RECEPTACLE	21-Apr-17	26-Apr-17
52	GLV	McMaster	7565K47	2	Cable Holders, Adhesive-Back, for 9/16" Maximum Bundle Diameter (Pack of 25)	21-Apr-17	24-Apr-17
53	IC	Allied Electronics	70230532	10	TE Connectivity DT06-6S (6 PIN FEMALE CONNECTOR)	24-Apr-17	26-Apr-17
54	VSCADA	Amazon	B010Q588D4	1	SanDisk Ultra 64GB microSDXC UHS-I Card with Adapter, Grey/Red, Standard Packaging (SDSQUNC-064G-GN6MA)	24-Apr-17	26-Apr-17
54	Cooling	Amazon		1	Arduino Uno R3 Microcontroller A000066	24-Apr-17	26-Apr-17
55	TSI	McMaster	7641K921	10	Modular DIN Rail-Mount Terminal Block, DIN 1 & 3, Standard, 5mm Width (Grey)	26-Apr-17	27-Apr-17
55	TSI	McMaster	7641K925	3	Jumper for Standard DIN 1 & 3, 5mm Width Modular DIN Rail-Mount Terminal Block	26-Apr-17	27-Apr-17

Purchase Requests:

The following items were ordered during this period:

Purchase Order #53 – IC* – Allied Electronics – DT06-6S Connectors (Appendix VII)

Purchase Order #54** – VSCADA/Cooling – Amazon – microSD, Arduino, CAN-BUS Shield (Appendix VIII)

Purchase Order #55 – TSI – McMaster – DIN Rail terminal blocks and jumpers (Appendix IX)

*IC stands for Interconnect/Cabling/ICD

**Only 2 out of 3 items of Purchase Order #54 were received during this period

Req #	Team	Vendor	Vendor PN	Qty	Item Description	Ordered Date
53	IC	Allied Electronics	70230532	10	TE Connectivity DT06-6S (6 PIN FEMALE CONNECTOR)	24-Apr-17
54	VSCADA	Amazon	B010Q588D4	1	SanDisk Ultra 64GB microSDXC UHS-I Card with Adapter, Grey/Red, Standard Packaging (SDSQUNC-064G-GN6MA)	24-Apr-17
54	Cooling	Amazon		1	Arduino Uno R3 Microcontroller A000066	24-Apr-17
54	Cooling	Amazon		1	Sparkfun CAN-BUS Shield for Arduino and compatibles	24-Apr-17
55	TSI	McMaster	7641K921	10	Modular DIN Rail-Mount Terminal Block, DIN 1 & 3, Standard, 5mm Width (Grey)	26-Apr-17
55	TSI	McMaster	7641K925	3	Jumper for Standard DIN 1 & 3, 5mm Width Modular DIN Rail-Mount Terminal Block	26-Apr-17

Outstanding Orders:

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

Purchase Order #54* – VSCADA/Cooling – Amazon – microSD, Arduino, CAN-BUS Shield (Appendix VIII)

*Only 1 out of 3 items of Purchase Order #54 has yet to be received

Purchase Request #	Team	Vendor	Quantity	Item Description	Ordered Date
54	Cooling	Amazon	1	Sparkfun CAN-BUS Shield for Arduino and compatibles	24-Apr-17

This is the only outstanding ordered items for this period. The shipping tracking claims it was delivered on Thursday morning, but neither Purchasing nor the department secretary have been able to determine where exactly it is, or if it is even on campus. More investigation will be taking place this week to determine if the order has come, and if not the company will be contacted. This order was shipped with free 2-day shipping.

APPENDIX I

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 46

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

Vendor: Mouser
Web Site: 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

APPENDIX II

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
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

APPENDIX III

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

APPENDIX IV

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
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

APPENDIX V

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
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

APPENDIX VI

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

APPENDIX VII

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

APPENDIX VIII

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
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	

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

APPENDIX IX

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