

Project Status Letter

PSL Number 12-ALL-GG

Covering period from 4/9/16 to 4/15/16

Prepared by: ECE 492 Design Team

Tasks that have been completed in the previous week:

TSV - CAN communication with SCADA demoed, Control panel board completed, whole accumulator has been put together (2 components still need to be fabricated)

GLV - layout for full rack (cockpit panel, safety panel, GLV systems panel) revised, TSI/HV isolator board out for fabrication, safety loop mockup demoed, parts for GLV system box purchased

VSCADA - Onboard computer interfaces + onboard touchscreen exist, I/O subsystem models completed in config file, demoed SCADA interfacing with safety loop and PackMan, implemented subsystem models which use CAN

MCM - experimental data collected for dynamic characterization of motor (acceleration and deceleration), water cooling system implemented for motor setup

Tasks ongoing

GLV - TSI/LV construction and cabling, setting up JGB to interface with TSI (and DAQ), cabling for panels

VSCADA - designing system to log all data, system able to send CAN messages from website, Data received from CANbus can be graphed, Dashboard UI fully implemented

TSV - writing software for PackMan board, state of charge algorithm report

MCM - efficiency/cooling data collection, dynamic characterization data analysis, writing dynamic characterization report draft

Tasks due to be complete next week.

TSV - state of charge algorithm report completed

GLV - Cockpit panel fully wired and built, TSI/LV box fully integrated and built, JGB software delivered, GLV system box built

MCM - data collection for efficiency/cooling, dynamic characterization report draft, efficiency/cooling report draft

VSCADA - designing system to log all data, system able to send CAN messages from website, Dashboard UI fully implemented

Overdue tasks

VSCADA - System logs all received data, System able to send CAN messages from website

MCM - dynamic characterization analysis report completed, efficiency/cooling data collected

GLV - JGB^3 (not getting built), wiring for all panels

Cost Summary

Budget Category	New This Period	Total Spent to Date	Budget Remaining	Total Budget
TSV	\$11.66	\$785.77	\$64.23	\$850
GLV	\$94.03	\$524.30	\$375.70	\$900
VSCADA	\$0	\$280.17	\$119.83	\$400
Cabling	\$0	\$101.37	\$198.63	\$300
MCM (Motor Char. + Model)	\$0	\$0	\$250	\$250
Shipping	\$86.96	\$169.76	\$130.24	\$300
Totals	\$192.65	\$1,861.00	\$1,138.63	\$3000

Receiving Reports

- Digi-Key (26 items) (Appendix I)
- DFRobot LCD Display (Appendix II)

Purchase Requests

- Digi-Key (7 items) (Appendix III)
- Amazon (3 items) (Appendix IV)
- Digi-Key Fuse and holder (Appendix V)

Appendix I:

ECE Department Material Request						
Course: ECE 492				Req Number:	016	
Professor: Nadovich/Yu						
Requested By: Joseph Cericola				Vendor:	Digi-Key	
Requested Date: 6-Apr-16				Web Site	www.digik ey.com	
Ship By: Ground				Phone	1-800-344-4539	
#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
1	2	AE10623-ND	Assmann USB 2.0 MaleA-MaleA Cable, 1m	\$2.36000	\$4.72	12-Apr-16
2	1	502PB-ND	Judco SPST Switch, 14V, 2A	\$1.34000	\$1.34	12-Apr-16
3	2	67-1183-ND	Lumex Panel Mount LED Red	\$1.20000	\$2.40	12-Apr-16
4	2	67-1185-ND	Lumex Panel Mount LED Yellow	\$1.32000	\$2.64	12-Apr-16
5	2	67-1184-ND	Lumex Panel Mount LED Green	\$1.32000	\$2.64	12-Apr-16

6	20	CKN9207-ND	C&K Pushbutton Plunger	\$0.45400	\$9.08	12-Apr-16
7	20	CKN9363CT-ND	C&K SPST Pushbutton	\$2.27100	\$45.42	12-Apr-16
8	4	1195-3481-ND	Harting USB 2.0 FemaleA-FemaleA Panel Mount Receptacle	\$21.65000	\$86.60	12-Apr-16
9	4	1195-2189-ND	Harting USB Receptacle Cap	\$8.14000	\$32.56	12-Apr-16
10	10	754-1883-ND	Kingbright LED Red, 5mm	\$0.54600	\$5.46	12-Apr-16
11	10	67-1332-ND	Lumex Panel Mount 5mm LED Holder	\$0.20900	\$2.09	12-Apr-16
12	6	WM2902-ND	Molex 4-Pos Connector Housing	\$0.27000	\$1.62	12-Apr-16
13	6	WM1342-ND	Molex 4-Pos Connector Header	\$2.99000	\$17.94	12-Apr-16
14	10	ED10502-ND	On Shore 16-Pos Connector Socket	\$0.33600	\$3.36	12-Apr-16
15	10	A111927-ND	TE Connectivity 10-Pos Connector Receptacle, Panel Mount	\$0.27000	\$2.70	12-Apr-16
16	10	A30594-ND	TE Connectivity 10-Pos Connector Plug, Free Hanging	\$0.25400	\$2.54	12-Apr-16
17	10	A30590-ND	TE Connectivity 2-Pos Connector Receptacle, Free Hanging	\$0.17800	\$1.78	12-Apr-16
18	10	A30654-ND	TE Connectivity 2-Pos Connector Plug, Free Hanging	\$0.11600	\$1.16	12-Apr-16

Appendix II:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492			Req Number : 017			
Professor: Nadovich/Yu						
Requested By: Joseph Cericola on behalf of Jaejoon Yang			Vendor: DFRobot			
Requested Date: 11-Apr-16			Web Site: www.dfrobot.com			
Ship By: Ground			Phone: 86-21-61620183			
1	2	DFR0154	DFRobot LCD Display	\$23.00	\$46.00	14-Apr-16
2					\$0.00	
3					\$0.00	
4					\$0.00	
5					\$0.00	
6					\$0.00	
7					\$0.00	
8					\$0.00	

Appendix III:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rcvd
ECE Department Material Request						
Course: ECE 492				Req Number:	018	
Professor: Nadovich/Yu						
Requested By: Joseph Cericola				Vendor: Digi-Key		
Requested Date: 13-Apr-16				Web Site	www.digik ey.com	
Ship By: Ground				Phone	1-800-344-4539	
1	4	A30258-ND	TE Connectivity AMP 2-Pos Micro MATE-N-LOK Connector Receptacle	\$0.3100	\$1.24	
2	2	A30264-ND	TE Connectivity AMP 8-Pos Micro MATE-N-LOK Connector Receptacle	\$0.6500	\$1.30	
3	25	A107960CT-ND	TE Connectivity AMP Micro MATE-N-LOK 18-22AWG Socket	\$0.1964	\$4.91	

Appendix IV:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rc vd
ECE Department Material Request						
Course: ECE 492				Req Number:	019	
Professor: Nadovich/Yu						
Requested By: Joseph Cericola				Vendor:	Amazon	
Requested Date: 14-Apr-16				Web Site	www.amazon.com	
Ship By: Ground				Phone	1-734-414-0900	
1	4	B00B5HS7TI	YCS Basics Black 6 Inch USB 2.0 High Speed Printer / Scanner Right Angle Cable	\$5.29	\$21.16	
2	1	B00S2KC1ZC	Meind 24v 20a 480w Switching Power Supply for Led Strip Light Input Ac100v-240v Dc 24v Output	\$44.99	\$44.99	
3	1	B013PKYAV6	bayite DC 6.5-100V 0-20A LCD Display Digital Current	\$16.98	\$16.98	

Appendix V:

#	Quantity	Vendor Part	Description	Unit Price	Total Price	Rc vd
1		283-2713-ND	Eaton Bussmann Panel Mount Fuse Holder, 250V, 16A, 5mmx20mm size fuses		\$0.00	
2	10	507-1256-ND	Bel Fuse 10A Glass Slow-Blow Fuse, 5mmx20mm	\$0.208	\$2.08	
3					\$0.00	
4					\$0.00	
5					\$0.00	
6					\$0.00	

Course: ECE 492		Req Number: 020
Professor: Nadovich/Yu		

Requested By:	Vendor: Digi-Key
Requested Date:	Web Site www.digik ey.com
Ship By: Ground	Phone 1-800-344-4539

