

Weekly Status Report

WSR number: 01

Covering period from: 01/22/18 to 01/26/18

Prepared by: Nakul Talwar & Kevin Kong

Tasks Summary from previous week:

Team	Tasks completed	Tasks planned for next week	Proposed changes	Overdue WBS items
TSV	<p>Documented boards in their current status (TSV 2.1.4)</p> <p>Watch dog timer fixed – No need for new crystal (??)</p> <p>Configurable parameters added (??)</p> <p>Buttons Debouncing for panel fixed (??)</p> <p>Lock functionality attained (??)</p> <p>Ordered TSAL lamps (??)</p>	<p>Verify/calibrate AMS boards using AMSVU (TSV 2.1.3)</p> <p>Rewire Pack 1 if necessary (??)</p> <p>28 AMS boards verified (TSC 2.1.2)</p>	<p>Creating new task for reprogramming boards</p> <p>Remove task for ordering crystal (TSV 3.1.2)</p>	N.A.
Dyno	<p>GLV is installed and set up on the dyno test. Circuit problems are fixed. (Dyno 1.2)</p> <p>TSI replacement is wired in and set up for dyno test. (Dyno 1.4)</p> <p>Dyno software is set up and tested. It successfully collected data and controlled throttle voltage during first dyno test run this week. (Dyno 1.5)</p> <p>The dyno system is integrated with all initial components and</p>	<p>Dyno software updates. Fix several bugs of dyno software and improve its performance to avoid unresponsiveness. (Dyno 3.2)</p>	<p>Create new task for the following: Dyno software updates. TSI replacement setup for Dyno.</p>	N.A.

	<p>is able to perform basic dyno tests with motor running. The dyno test is performed on Friday. (Dyno 1)</p> <p>Connected motor and motor controller in Dyno room (Dyno 1.1)</p> <p>Wired and mounted cooling system on Dyno (Dyno 1.3)</p>			
Cooling System	<p>Found and ordered DC/DC step down converter (Cooling 1.1)</p>	<p>Integrating and testing DC/DC converter in Dyno room (Cooling 1.2)</p> <p>Deciding enclosure and position of cooling system with mechanical engineers (??)</p>	N.A.	N.A.
VSCADA	<p>Ordered new CAN interpreter (??)</p> <p>Installed OS on Raspberry Pi with supporting software for CAN reader (??)</p> <p>Created a sqlite3 database schema for CAN data to be stored (SCADA 1.4)</p> <p>Install PeeWee on Raspberry Pi (SCADA 1.1)</p> <p>Create PeeWee models (SCADA 1.5)</p>	<p>Setup wi-fi extender (SCADA 5.2)</p> <p>Setup SSH (SCADA 4.4)</p> <p>Setup CAN interpreter (SCADA 2.2)</p> <p>Create functions that store CAN data into database (SCADA 1.6)</p> <p>Install graphics libraries (??)</p> <p>Periodically retrieve all CAN bus data (SCADA 1.3)</p>	<p>New display needed (current display to big to fit)</p> <p>Updated WBS items.</p>	N.A.
TSI	<p>Created test plan for existing board (11.4)</p> <p>Ordered high voltage danger labels.(??)</p> <p>Ordered 34 mm shrouded banana jacks for TSI. (??)</p> <p>Inspected and compiled current TSI firmware code (??)</p>	<p>Test/Document status of existing board (10.8)</p> <p>Replace P2 and P3 connectors (6.13)</p> <p>Mount RTDS indicator according to rules (6.16)</p> <p>Identify cables that need strain relief</p>	<p>Combine small tasks into larger tasks as follows:</p> <p>Redesign TSI board.</p> <p>Fix existing TSI board.</p> <p>Create new tasks:</p> <p>Create ATP for Board</p>	<p>Test/Document status of existing board (10.8)</p>

	Created initial plan for TSI firmware (?)	(8.11) Verification of ADC for current measurement (9.20) Verification of current measurement transmission over CAN to SCADA. (10.9)	Create ATP for Firmware	
Interconnect	Record all cables with crimp connectors (IC 1.1.1) Order new DTOG connectors (turns out these are already in stock) (IC 1.2.4)	Remove crimp connectors and confirm connection can be replaced by DTOG (IC 1.1.2) Reduce Crimp connectors with DTOG connectors (IC 1.1)	Create task: Make list of the location of all existing cables	N.A.
GLV	N.A.	N.A.	N.A.	N.A.
Management	Compiled and processed weekly status updates and orders to produce a overall status report (MGMT 1.1) Updated WBS and printed current version (??)	Compile and prepare weekly status report for next week including purchasing (MGMT 1.2) Complete first draft of ESF-2 (MGMT 8.8) Make further changes to WBS (??)	Modify tasks to ensure: Each task has approximately one week of completion time. Each level of the WBS meets the 100% rule. Renummer tasks based on subsystem and sub levels.	N.A.

Purchasing Summary from previous week:

Subsystem	Spent this period	Spent to date	Budget Allocated	Budget Remaining	Percentage Spent
TSI	\$0.00	\$0.00	\$500.00	\$500.00	0.00%
GLV	\$0.00	\$0.00	\$150.00	\$150.00	0.00%
VSCADA	\$58.55	\$58.55	\$100.00	\$41.45	58.55%
Interconnect	\$0.00	\$0.00	\$1,050.00	\$1,050.00	0.00%
Cooling	\$0.00	\$0.00	\$150.00	\$150.00	0.00%
TSV	\$0.00	\$0.00	\$500.00	\$500.00	0.00%
Dyno	\$52.80	\$52.80	\$100.00	\$47.20	52.80%
Shipping/Tax	\$15.77	\$15.77	\$450.00	\$434.23	3.50%
Total	\$127.12	\$127.12	\$3,000.00	\$2,872.88	4.24%

Appendix:

ECE Department Material Request

Course: ECE 492 Professor: Nadovich
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Req Number:1

Requested By	Geoff(VSCADA)
Date	25-Jan-18
Email	watsongd@lafayette.edu

Vendor:	CopperHill Technologies
Web Site	http://copperhilltech.com/
Phone	413-475-3651
Ship By:	Economy Ground

#	Quantity	Description	Unit Price	Requester	Total Price	Rcvd
1	1	PiCan2- CAN Interface for Raspberry Pi 2/3	\$47.95	Geoff	\$47.95	

Subtotal:	\$47.95
Shipping Fees:	\$0.00
Grand Total:	\$47.95

Instructor Approval:

Department Approval:
(Over \$500)

ECE Department Material Request

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Req Number:2

Requested By	Geoff(VSCADA)
Date	25-Jan-18
Email	watsongd@lafayette.edu

Vendor:	ShowMeCables
Web Site	www.showmecables.com
Phone	888-519-9505
Ship By:	Economy Ground

#	Quantity	Description	Unit Price	Requester	Total Price	Rcvd
1	5	DB9 Male to DB9 Male Low Profile Gender Changer	\$2.12	Geoff	\$10.60	

Subtotal:	\$10.60
Shipping Fees:	\$3.49
Grand Total:	\$14.09

Instructor Approval:

Department Approval:
(Over \$500)

ECE Department Material Request

Course: ECE 492 Professor: Nadovich
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Req Number:3

Requested By	Amrit(Dyno)
Date	25-Jan-18
Email	bhandara@lafayette.edu

Vendor:	EV West
Web Site	http://evwest.com
Phone	(888) 591-5830
Ship By:	Economy Ground

#	Quantity	Description	Unit Price	Requester	Total Price	Rcvd
1	1	First Technology Inertia Switch	\$52.80	Amrit	\$52.80	

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

Instructor Approval:

Department Approval:
(Over \$500)