Project Status Letter

PSL Number: [PSL_01]

Covering period: 02/06-02/10

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Task summary from previous week/Proposed Changes:

In addition to creating and presenting a preliminary design review complaint with D000:PDR, the following teams have completed the following tasks. Teams spent some time acclimating themselves with the existing functionality (if any) to determine what needs to be re-designed/re-fabricated, or the next steps to implementation. These tasks are all incorporated in the WBS.

TEAM	TASKS COMPLETED	PROPOSED CHANGES
VSCADA	-Configured server -created web API with proper interfaces -created a framework for databases -created a database handler	
Cell App	-UML diagrams for application -Both line and graph chart examples implemented	-design proposal (outcome 1) to have been completed 02/10, main focus this week
DYNO	-demonstrated basic motor operation	-no need to document existing functionality
TSV	-programmed PacMAN SN: 04 PacMAN SN: 05 -finished charging all cells in pack 2 -approved, received, and painted L-bars from machine shop	-documentation of PacMAN boards -test plan of PacMAN -test plan of AMS -assembly of packs without AMS/PacMAN boards -assembly of packs with AMS/PacMAN boards
TSI	-updated block diagram to submit -submitted purchase requests to MGMT	-remove OFF/AUTO switches -generate PWM signals from IMD by 02/14
COOLING	-submitted purchase order requests to MGMT -delivered block diagram of overall system -made a schematic of mounting fixtures	-purchase ESC to control pump -test ESC (electronic speed control) to control pump -no need to document existing functionality
Systems Engineering	-ESF forms delegated and assigned -software maintainability plan template created	-JGB “initiative “ cancelled -spearheading ESF forms

GLV	-submitted a design panel for fabrication to the machine shop -created full system diagram for GLV system -submitted purchase order request to MGMT for GLV battery, charger, and box -battery test plan and preliminary documentation submitted -ESF forms	-potential BoB discrepancies due to potential redesign -potential BoB refab -still in the build/test phase of basic safety loop -testing battery to be pushed back until it comes in -duration of designing housing/SoC should take longer
Interconnect	-submitted purchase order requests for TSV team to MGMT	-complete TSV cabling first
Communications	-photographed engineers	
Car Physics Investigation	-dynamic modeling high level diagram -static modeling high level diagram -motor/MC TSV interface high level diagram -elementary high level diagram of integrated car	
MGMT	-compiled PDR -Budget submitted and approved -weekly website updates	-WBS

Plan for next week:

TEAM	TASKS TO BE COMPLETED
VSCADA	-create layouts for different views -start working on demonstrating the CANBus
Cell App	-preliminary app design and testing -submit design proposal -SQLite database connection -DB handler implementation
DYNO	-rework existing VSCADA test controls -parameterize velocity sensor -test DYNO with different resistance/solenoid values
TSV	-assemble and debug PacMAN05 -install bars in all packs -determine wiring -ESF form -submitting debugging plan -test plan for AMS software
TSI	-finish ESF forms -submit PCB layout approved for galvanic isolation -simulation of throttle and plausibility circuit -integration of throttle/plausibility circuit into PCB schematic -create schematic for digital design for reading PWM -place purchase order for TSMP hardware -place purchase order for microcontroller for TSI unit
COOLING	-assemble purchased parts to test fan speed -build a controller algorithm -build a pump algorithm -build structure of cooling materials -order hardware to interface with CANBus
Systems Engineering	-print system block diagram -compile ESF paperwork -create ATP draft -identify replacement cables for TSV -order CAN bus interfaces -create/hash out CAN bus protocol
GLV	-integrate/test basic safety loop -finalize full system design -redesign GLV power BoB -assemble basic safety loop -re-design changes made to panels and submit for approval -coordinate with IC team for connectors -test GLV power supply
Interconnect	-submit purchase order for TSV -assemble cables for TSV -create a more functional labeling system

	- build a DB9to bare twisted CANBus cable
Communications	-meet with admissions/director of comm. -contact local newspaper -acquire camera for semester -continue gathering footage/photographs -meet with Prof. Hummel to discuss KEEN -create outline for “story of video”
Car Physics Investigation	-mathematical equation for dynamic model -mathematical equation for static model -mathematical equation for motor/MC IO -mathematical equations for cascade relations of certain parameters
MGMT	-Purchase order 1: approved, ordered, received, recorded -preliminary purchasing report -preliminary BoM template/Organization system -deliver PSL_1 -deliver WBS_v0.1 -updated/reorder task list

Cost Summary:

Subsystem	Spent this period	Spent to date	Budget Allocated	Budget Remaining
TSI	0	0	$1,000	$1,000
GLV (responsible for SCADA hardware)	0	0	$1,000	$1,000
VSCADA	0	0	$50	$50
Cell App	0	0	$125	$125
Controller Cooling System	0	0	$600	$600
Interconnect / Cabling / ICD	0	0	$1,000	$1,000
Dyno	0	0	$50	$50
TSV	0	0	$500	$500
Physics & Cruise Control	0	0	$0	$0
Shipping / Tax / Misc & Safety	0	0	$1,175	$1,175
Total	**0**	**0**	**$5,500**	**$5,500**

Receiving Report:

N/A

Purchase Requests:

N/A