

Project Status Letter Week 1  
 Covering Period from 1/28/2019 to 2/3/2019  
 Prepared by Alex Kmetz and Katie Lee

**Weekly Team Goals**

Week		Complete
1	1/28/2019 - 2/3/2019	
1	Detailed and COMPLETE drawings of all enclosures with all contents depicted in the drawing	
2	Revised Bill of Materials (BoM) for all subsystems submitted to Robson	
3	First Draft ATP submitted to Professors for review	

**DYNO Integration Action Tracking**

Completion of Previous Semester Goals: 91%

- Missing Completions: SCADA Connectivity, Full Motor Testing Setup, TSI Board

Task / Item	In Progress Projected (%)	In Progress Actual (%)	Complete	Dependencies
Motor Spinning in Dyno Room	100.00%	100.00%	Yes	Motor Purchased Motor Controller Purchased Pulley / Shaft Fabricated Motor Installed in Motor Mount MCS Installed in Fixture Pulley / Shaft Connected to Motor
Motor Controller Connected to TSI, Cooling, and Motor in Dyno Room	100.00%	83.33%	No	Motor Controller Purchased MCS / TSI / Cooling Fixture Fabricated TSI Board Complete TSI Mounting Plate Complete
Motor Mount Fabricated	100%	100%	Yes	
Motor Installed in Motor Mount in Dyno Room	100.00%	100.00%	Yes	Motor Purchased Motor Mount Fabricated
Pulley / Shaft Fabricated	100%	100%	Yes	
Pulley / Shaft Connected to Motor and Mounted in Dyno Room	90.91%	90.91%	No	Motor Purchased Pulley / Shaft Fabricated
MCS / TSI / Cooling Fixture Fabricated	100%	100%	Yes	
Dyno Room Testing Plan Complete	100%	100%	Yes	
Dyno Room Wiring Diagram Complete	100%	100%	Yes	

GLV Board Manufactured	100.00%	100.00%	Yes	
GLV Mounting Plate Manufactured	100.00%	100.00%	Yes	
Safety Loop Testing Panel Mounted in Dyno Room Rack	100%	100%	Yes	
Safety Loop Functional In Dyno Room	100%	100%	Yes	GLV Board Manufactured
TSI Board Manufactured	100.00%	92.31%	No	
TSI Mounting Plate Manufactured	100.00%	100.00%	Yes	
TSI Throttle / Brake Control Panel Manufactured	100.00%	100.00%	Yes	TSI Board Manufactured TSI Mounting Plate Manufactured
Cooling Loop Filled with Water and Tested For Leaks	100.00%	100.00%	Yes	
Cooling System Mounted on Fixture in Dyno Room	100%	100%	Yes	MCS / TSI / Cooling Fixture Fabricated
Cooling System Connected to MCS and Motor in Dyno Room	100%	100%	Yes	MCS / TSI / Cooling Fixture Fabricated
Cooling System Connected to TSI in Dyno Room	100.00%	80%	No	
SCADA Recording Data and Writing to a File	100.00%	71%	No	
SCADA Displaying Data to Rack Monitor in Dyno Room	75%	75%	No	
SCADA Communicating with GLV in Dyno Room	100%	100%	Yes	GLV Board and Mounting Plate Integrated
SCADA Communicating with TSI in Dyno Room	75%	75%	No	TSI Board and Mounting Plate Integrated
SCADA Communicating with Motor Controller in Dyno Room	100%	75%	No	
All Connecting Wires Produced with Correct Connector Types	100%	100%	Yes	
All Subsystems fully wired in Dyno Room	100%	100%	Yes	
All Tests According to Test Plan Run in Dyno Room	100%	0%	No	

**Project Item Completion Chart:**

Team	Tasks Completed	Tasks Planned for Next Week	Proposed Changes	Overdue WBS Items
VSCADA	<p><b>Sam:</b>            SCADA.1.1 - VSCADA and GLV via GPIO</p> <p>SCADA.1.2 - VSCADA receiving data from GLV Sensors</p> <p>SCADA.1.3 - VSCADA sends warning for error sensor data</p> <p>SCADA.7.1 - RTC purchased and acquired</p> <p>Continued debugging</p> <p>UI Modifications</p>	<p><b>Zian:</b>            SCADA.2.1 - VSCADA and TSI Connected via CAN</p> <p>SCADA.2.2 - Receiving Data from TSI Sensors</p> <p><b>Sam:</b>            SCADA.5.1 - VSCADA and MCS connected via CAN</p> <p>SCADA.5.2 - VSCADA receiving data from MCS Sensors</p> <p>SCADA.5.3 - VSCADA sends warning for error sensor data</p>	none	none
TEST	none	none	none	none
GLV	none	<p><b>Max:</b>            GLV.1.1 - PCB Circuit Schematic Complete and Approved</p> <p>GLV.1.2 - PCB Layout complete and approved</p> <p>GLV.4.1 - GLV Interconnect Document (ICD) delivered</p>	none	none
TSI	<p><b>Xiaonan:</b>            TSI Schematic revised based on errata</p> <p>TSI enclosure reviewed</p>	<p><b>Xiaonan:</b>            TSI Schematic and Layout revised and delivered</p>	none	none

	<p>and revised</p> <p><b>Tianyu:</b> Updated TSI Schematic from previous semester</p>	<p><b>Tianyu:</b> TSI.1.1 - PCB Circuit Schematic Complete and Approved</p> <p>TSI.1.3 - PCB Purchase Order Approved and Submitted</p> <p>TSI.2.1 - Enclosure Designed, Approved, and Submitted to Machine Shop</p> <p>TSI.5.3 - IMD Purchased and Acquired</p>		
TSV	none	<p><b>Weston:</b> TSV.4.6 - Cell Connecting Bar Designs</p> <p>TSV.4.10 - High Voltage Path Bar Designs</p> <p>TSV.9.2 - TSV Budget submitted and approved</p> <p>TSV.9.3 - TSV BoM Submitted and Approved</p> <p><b>Yishak:</b> TSV.6.2 - High Level Pack Diagram Including Wiring</p> <p>TSV.3.1 - First PacMan PCB Schematic</p> <p>TSV.1.2 - First CellMan PCB Layout</p>	none	none

Cooling	none	none	none	none
Interconnect	<b>Drew:</b> INT.2.1 - Full wiring BoM submitted and approved	<b>Drew:</b> INT.2.2 - Full wiring purchase order submitted	none	none
Mech	none	none	none	none
Management	<b>Alex:</b> M.1.1 - Interim Project Report  <b>Katie:</b> WBS_Draft_8	<b>Alex:</b> M.2.3 - ATP Submitted for Review  <b>Katie:</b> M.2.3 - ATP Submitted for Review  ATP_Draft_6 (Fall)  ATP_Draft_1 (Spring)  Car Progress Tracker	none	none

**Purchasing Summary from Previous Week:**

<b>Sub-system</b>	<b>Previously Allocated Budget</b>	<b>Total Spent</b>	<b>Budget Remaining</b>	<b>Percentage Spent</b>
Brakes	\$3,500.00	\$0.00	\$3,500.00	0.00%
Chassis/Body	\$5,000.00	\$0.00	\$5,000.00	0.00%
Cooling	\$620.00	\$37.64	\$582.36	6.07%
Drivetrain	-	-	-	-
GLV	\$780.00	\$967.48	<b>-\$187.48</b>	<b>124.04%</b>
Interconnect	\$1,500.00	\$1,440.87	\$59.13	96.06%
Motor/MCS	\$4,000.00	\$6,525.23	<b>-\$2,525.23</b>	<b>163.13%</b>
Pedal/Controls	\$2,000.00	\$0.00	\$2,000.00	0.00%
Steering	\$2,500.00	\$0.00	\$2,500.00	0.00%
Suspension	\$2,200.00	\$0.00	\$2,200.00	0.00%
TSI	\$1,500.00	\$1,704.04	<b>-\$204.04</b>	<b>113.60%</b>
TSV	\$4,187.00	\$1,270.55	\$2,916.45	30.35%
VSCADA / DYNO	\$525.00	\$87.67	\$437.33	16.70%
Shipping/Tax	\$4,246.80	\$729.42	\$3,517.38	17.18%
Registration	\$2,300.00	\$2,300.00	\$0.00	100.00%
<b>Overall</b>	<b>\$32,558.80</b>	<b>\$15,062.90</b>	<b>\$17,495.90</b>	<b>46.26%</b>