

PSL Week 15

Covering Period from 12/2-12/9

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LAFAYETTE
MOTORSPORTS

SCADA

Work done towards demo for poster presentation, no specific WBS items completed.

Both members completed poster deliverable

Plans

- SC 4.1.3 - (WIP) - Display still does not respond to CAN messages
 - I want to have the display respond to CAN messages, such as displaying the warning screens.

TSI

Tests conducted however ADC's are not working properly and will need to be replaced with hardware comparators.

Plans

- Debug firmware on new board
- MCS Tests
- Fix Internal ADC

DYNO & Cooling

- The motor spun! Not for long enough and we probably damaged something.
- Cooling System components were ordered and if those come this week, we can assemble the system in the dyno room
- This also depends on the TSI board getting fixed ASAP especially if we would like to run the motor in the Dyno Room on monday.
- Concerns that the Radiator where it will be mounted will conflict with current suspension plans, can we double check that this will be ok?

GLV

- New Cables and Connectors have been made for the new GLV BOB
- Cable drawings made, in order for End of Interim (EOI) manufacture
- **Overdue**
 - Board tests passed
 - New BOB mounted
 - Voltage Drop in DYNO
- What is taking this stuff so long?

TSV

- PacMan board soldered
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- Software
 - Redefined variables in PacMan display firmware to be more standardized.
 - Layed out redesign of TSV Display to be completed over interim.
 - Connected ESP32 to twisted pair CAN Network.
- Mechanical
 - Prototype Drawings still being revised and improved
 - One of each BUS bar machined and tested, all bars will be machined over break
- Plans
 - PacMan Board tested
 - Test communication between cores of ESP32
 - Machining can finally be started on prototype

INTERCONNECT

- Dyno diagram is now located in the Dyno room
- Connectors purchased for mc and cockpit, TSI and GLV connection to cockpit combined
- Plans
 - Make cables over break

CHASSIS

- Things done
 - Manufacture new battery box frame
 - Mounting Front Suspension Pickup Points
 - Manufacture new dashboard
- Plans
 - Finish front suspension pickup points
 - Finish cutting old battery box frames

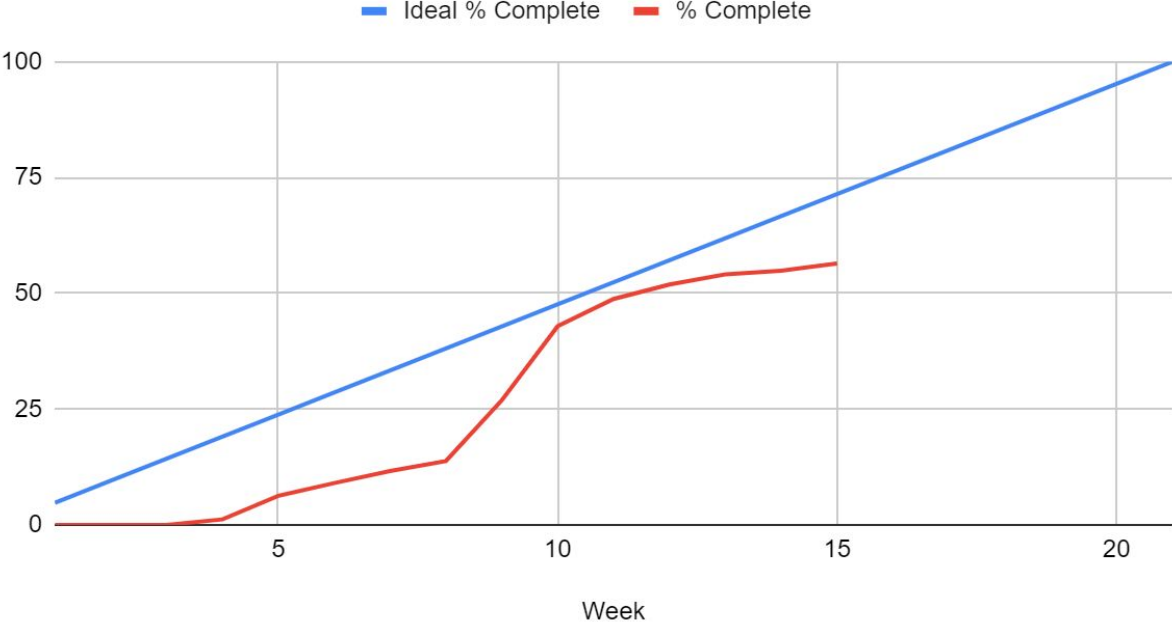
SUSPENSION

- Things Done
 - Finished one corner of suspension
- Plans
 - Cover steering rack
 - Adjust wheel position
 - Assemble rear A-Arms
 - Chassis Pickup Points

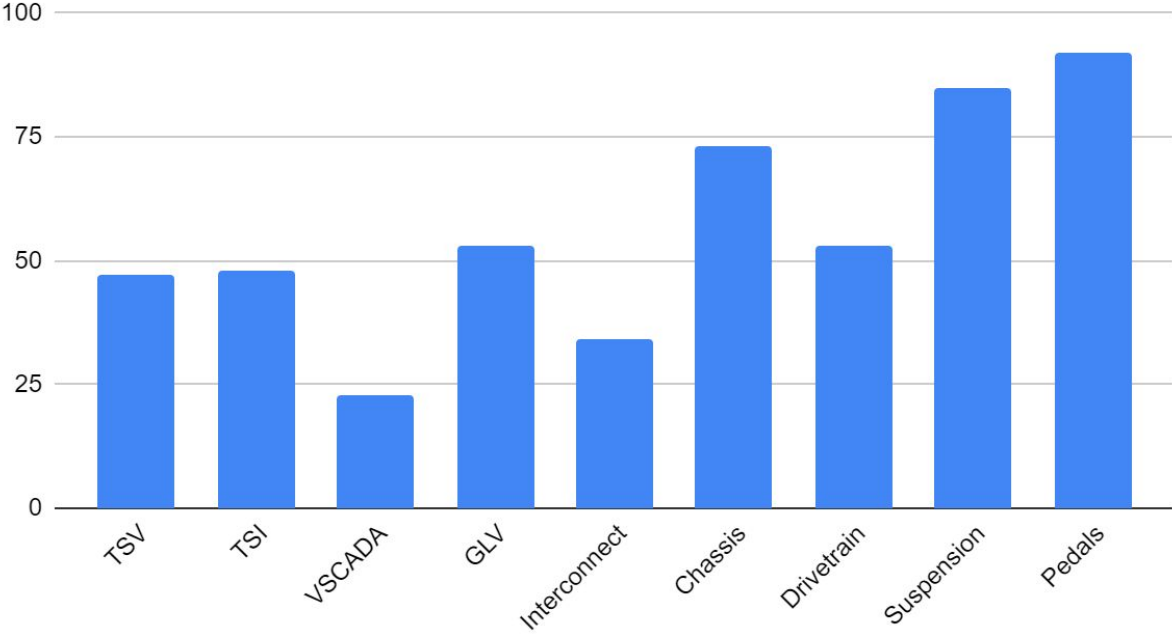
MANAGEMENT

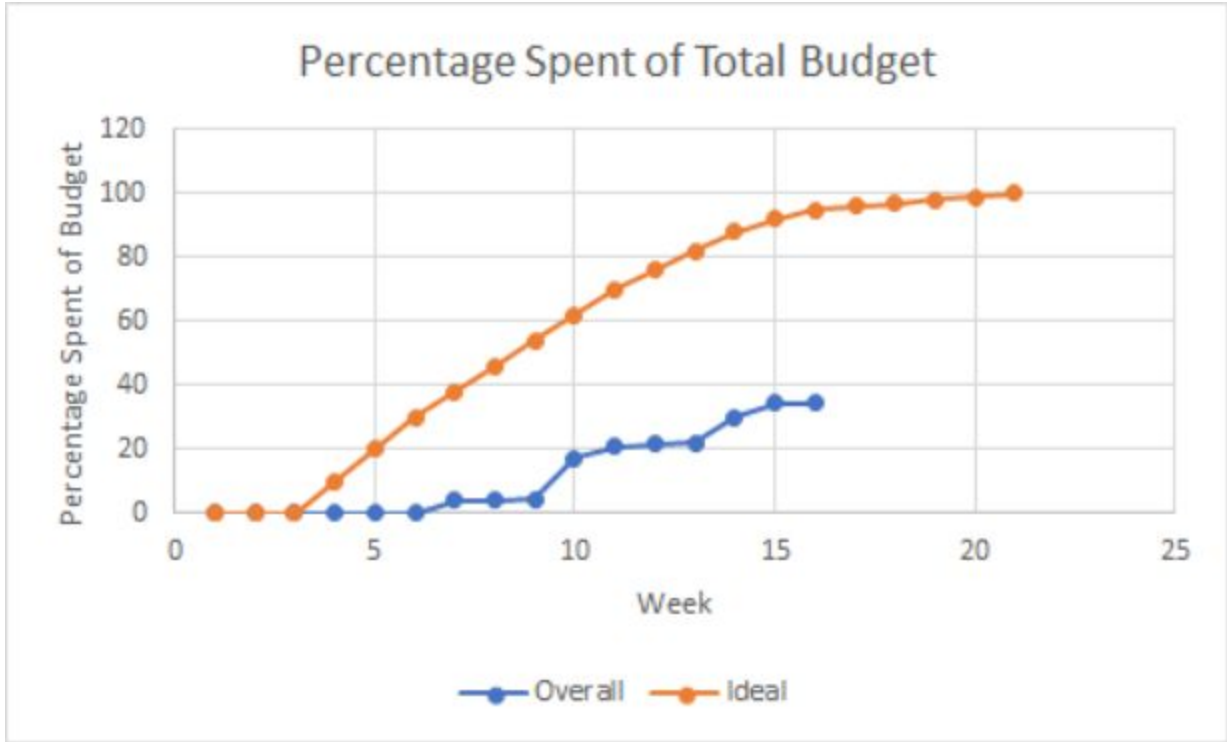
- Things Done
 - Submitted Program Information Sheet to Formula Hybrid
 - Submitted ATP
- Plans
 - Revise ATP
 - Revise Gantt Chart
 - Revise WBS
 - Revise almost everything

Ideal % Complete and % Complete

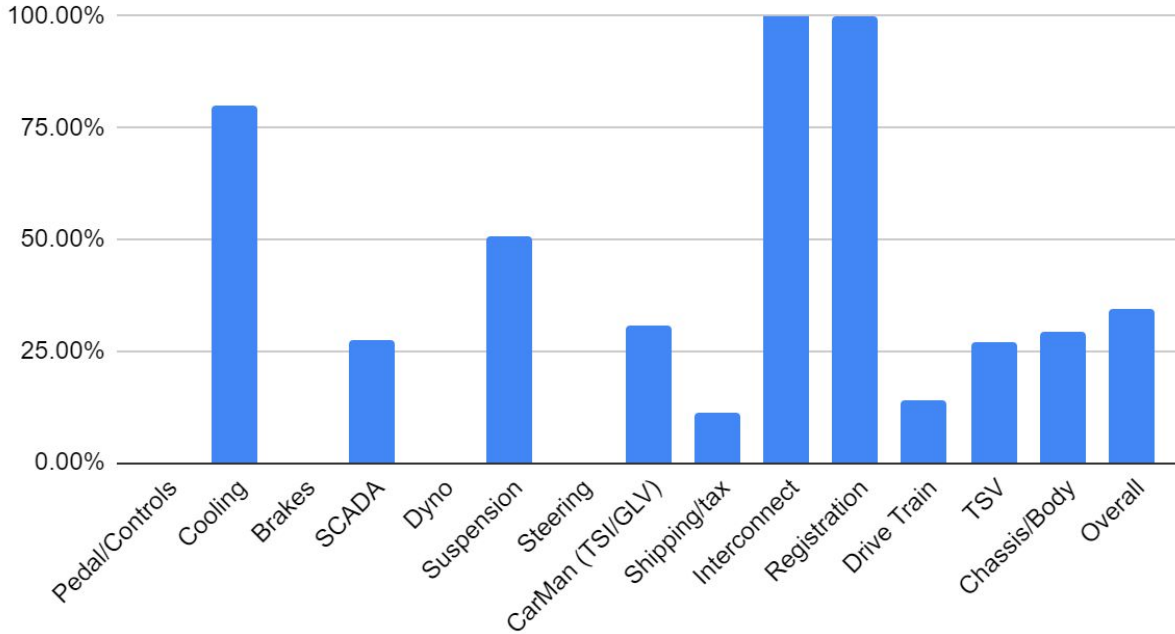


% WBS Completion of Project for each Subsystem





Percentage of Allocated Budget Spent



Sub-System	Allocated Budget	Total Spent	Budget Remaining	Percentage Spent
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Pedal/Controls	\$200.00	\$0.00	\$200.00	0.00%
Cooling	\$500.00	\$399.25	\$100.75	79.85%
Brakes	\$400.00	\$0.00	\$400.00	0.00%
SCADA	\$800.00	\$218.87	\$581.13	27.36%
Dyno	\$100.00	\$0.00	\$100.00	0.00%
Suspension	\$2,500.00	\$1,268.50	\$1,231.50	50.74%
Steering	\$200.00	\$0.00	\$200.00	0.00%
CarMan (TSI/GLV)	\$4,400.00	\$1,355.11	\$3,044.89	30.80%
Shipping/tax	\$3,690.00	\$407.57	\$3,282.43	11.05%
Interconnect	\$700.00	\$984.27	-\$284.27	140.61%
Registration	\$2,000.00	\$2,000.00	\$0.00	100.00%
Drive Train	\$3,200.00	\$447.73	\$2,752.27	13.99%
TSV	\$8,000.00	\$2,151.60	\$5,848.40	26.90%
Chassis/Body	\$1,300.00	382.51	\$917.49	29.42%
Overall	\$27,990.00	\$9,615.41	\$18,374.59	34.35%