Dyno Team Work Breakdown Schedule ECE 492 - Spring 2015

Revision 2.3.0 Stephen Mazich

Week 4	Milestone	Dyno to computer sensor and data acquisition integration and motor controller water cooling system operating
	Steve	Revised task breakdown schedule and submit user manual
	Alex	Sensor System Placement and cable routing and management
	John	Dyno to computer sensor and data acquisition integration
	Brendan	Submit the user manual
	Nate	Build the motor controller cooling system and determine operating temps of motor controller
Week 5	Milestone	Computer controllable throttle input to motor controller and motor controller programmed
	Steve	Submit Calibration and Error Analysis and revise Task Breakdown Schedule
	Alex	Submit ATP Final
	John	Computer controllable throttle input to motor controller
	Brendan	Model the motor in software
	Nate	Program and control the motor controller via software
Week 6	Milestone	Integrate data acquisition systems and computer controlled throttle integrated with motor controller
	Steve	Submit memo on Dyno to VSCADA dynamometer interface design
	Alex	E-Stop and oil temp. sensor design
	John	Integrate computer controlled throttle with motor controller and demonstrate user interface for system
	Brendan	Simulate and document the motor model
	Nate	Integrate data acquisition systems
Week 7	Milestone	Present CDR, submit hardware purchase proposal, and demonstrate data acquisition
	Steve	Submit Approved ATP, and completed fabrication ready drawings

	Alex	Final system design with subsystem breakdown draft and detailed subsystem breakdown
	John	Draft final report and submit Project Budget
	Brendan	Maintenance manual draft and present motor model simulation
	Nate	Data acquisition demonstration (T000-2)
Week 8	Milestone	Review feedback and draft corrective memo from feedback
	Steve	Review CDR feedback and draft corrective memo
	Alex	Review safety plan feedback and draft corrective memo
	John	Review demonstration feedback and draft corrective memo
	Brendan	Review communication feedback and draft corrective memo
	Nate	Review system design feedback and draft corrective memo
Week 9	Milestone	MCS put together and independently verify basic subsystem functionality
Week 9	Milestone Steve	
Week 9		functionality
Week 9	Steve	Frepare AEC 401 and test (T000-1)
Week 9	Steve Alex	functionality Prepare AEC 401 and test (T000-1) Test safety systems (T003-1, -3)
Week 9	Steve Alex John	Frepare AEC 401 and test (T000-1) Test safety systems (T003-1, -3) Verify throttle system (T000-2)
Week 9 Week 10	Steve Alex John Brendan	Prepare AEC 401 and test (T000-1) Test safety systems (T003-1, -3) Verify throttle system (T000-2) Develop simulation for full vehicle
	Steve Alex John Brendan Nate	Prepare AEC 401 and test (T000-1) Test safety systems (T003-1, -3) Verify throttle system (T000-2) Develop simulation for full vehicle Verify motor controller sensors (T001-2, -3, -4)
	Steve Alex John Brendan Nate Milestone	Prepare AEC 401 and test (T000-1) Test safety systems (T003-1, -3) Verify throttle system (T000-2) Develop simulation for full vehicle Verify motor controller sensors (T001-2, -3, -4) Verify dyno sensors and torque and rpm charts generated

	Brendan	Develop simulations for realistic scenarios
	Nate	Verify dynamometer sensors (T001-1, -5)
Week 11	Milestone	ATR drafted and submitted QA Audit Report
	Steve	Test general requirements section from ATP (and draft ATR section)
	Alex	Test safety section from ATP (and draft ATR section)
	John	Test test stand section from ATP (and draft ATR section)
	Brendan	Determine power consumption data and graph data for various realistic scenarios
	Nate	Test sensors section from ATP (and draft ATR section)
Week 12	Milestone	Integrate with completed systems, formally inspect hardware, and develop gear ratio
	Steve	Complete ATP inspections
	Alex	Integrate with TSI (T002-4)
	John	VSCADA integration (T002-1, -2)
	Brendan	Develop appropriate gear ratio for the car
	Nate	Interface throttle with VSCADA (T002-3)
Week 13	Milestone	Submit ATR
	Steve	Complete and submit ATR
	Alex	Draft final report
	John	Draft final report
	Brendan	Draft final maintenance manual
	Nate	Draft final maintenance manual

Week 14	Milestone	Submit the Final Report and Maintenance Manual
	Steve	Submit the final report
	Alex	Submit the final report
	John	Submit the final report
	Brendan	Submit the Maintenance Manual
	Nate	Submit the Maintenance Manual
Week 15	Milestone	Demo our part of the system and available integration with other groups
Week 15	Milestone Steve	Demo our part of the system and available integration with other groups Demo motor control system
Week 15		
Week 15	Steve	Demo motor control system
Week 15	Steve Alex	Demo motor control system Demo the motor control system