GanttProject Report

Project : Pikes Peak 2014 2015

Start : 7/13/14

End : 6/28/15

Organization : Buckeye Current

Web Link : http://

Description :

Date : Sep 1, 2014 3:23:40 PM

Tasks List

Name	Duration	Begin date	End date	Resources
Pikes Peak	0	6/28/15	6/28/15	
Autum Sem.	0	8/27/14	8/27/14	
Autum Finals	7	12/17/14	12/11/14	
Winter Break	26	1/14/15	12/18/14	
Spring Sem	0	1/13/15	1/13/15	
Spring Finals	7	5/5/15	4/29/15	
Summer Break	0	5/4/15	5/4/15	
Define Requirements (RW-3)	3	7/15/14	7/13/14	
Design System (RW-3)	4	7/19/14	7/16/14	
Build (RW-3)	274	4/27/15	7/20/14	
Powertrain	223	3/7/15	7/20/14	
Define Requirements (Powertrain)	33	8/21/14	7/20/14	
Design System (Powertrain)	7	8/28/14	8/22/14	
Build (Powertrain)	157	2/8/15	8/29/14	
Motor	69	11/7/14	8/29/14	
Define Requirements (Motor)	1	8/29/14	8/29/14	
Design System (Motor)	8	9/7/14	8/30/14	
Choose Motor	8	9/7/14	8/30/14	
Build (Motor)	60	11/7/14	9/8/14	
Purchase Motor	30	10/7/14	9/8/14	
Recieve Motor	30	11/7/14	10/8/14	
Motor Controller	99	12/9/14	8/29/14	
Define Requirements (M/C)	1	8/29/14	8/29/14	
Design System (M/C)	8	9/7/14	8/30/14	
Choose Controller	8	9/7/14	8/30/14	
Build (M/C)	90	12/9/14	9/8/14	
Purchase Controller	30	10/7/14	9/8/14	
Recieve Controller	30	11/7/14	10/8/14	
Configure Controller to Motor	30	12/9/14	11/8/14	
Pack	157	2/8/15	8/29/14	
Define Requirements (Pack)	1	8/29/14	8/29/14	
Design System (Pack)	22	9/21/14	8/30/14	
Choose Battery	8	9/7/14	8/30/14	
Design Pack	14	9/21/14	9/8/14	
Build (Pack)	134	2/8/15	9/22/14	
Purchase Battery	30	10/22/14	9/22/14	
Recieve Battery	30	11/22/14	10/23/14	
Test Cells	14	12/7/14	11/23/14	
Module	60	2/8/15	12/8/14	
Sense Wiring	60	1/25/15	11/23/14	
HV bussing	60	1/25/15	11/23/14	
Final Drive Design	30	10/7/14	9/8/14	
Cooling	30	10/7/14	9/8/14	
Integration Testing (Powertrain)	84	3/7/15	12/10/14	

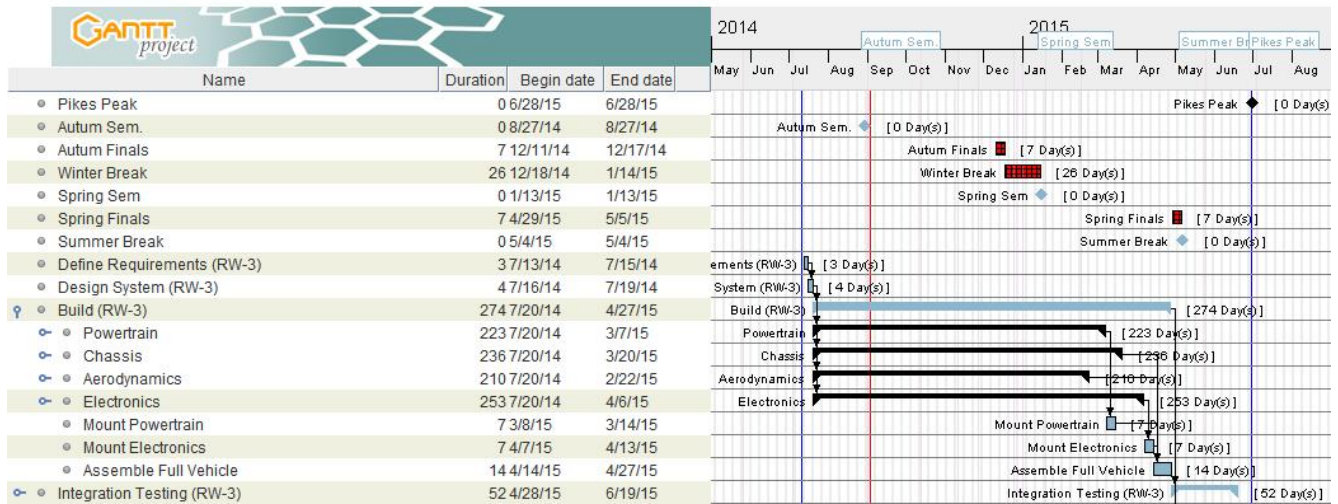| Task	Duration	End	Start
Test Motor with Controller	60	2/10/15	12/10/14
Test Battery with BMS	30	3/6/15	2/4/15
Test Full Powertrain On Dyno [not needed]	1	3/7/15	3/7/15
Chassis	236	3/20/15	7/20/14
Define Requirements (Chassis)	31	8/19/14	7/20/14
Design System (Chassis)	11	8/30/14	8/20/14
Build (Chassis)	164	2/18/15	8/31/14
Frame	110	12/22/14	8/31/14
Define Requirements(Frame)	1	8/31/14	8/31/14
Design (Frame)	35	10/6/14	9/2/14
Select Frame	7	9/8/14	9/2/14
Purchase Frame	14	9/22/14	9/9/14
Get Frame CAD	14	9/22/14	9/9/14
CAD rolling chassis	14	10/6/14	9/23/14
Build (Frame)	74	12/22/14	10/7/14
Frame inspection	30	11/6/14	10/7/14
Assemble rolling Chassis	14	11/21/14	11/7/14
Assign Chasis Volume	7	10/14/14	10/7/14
Place Components [delete]	1	10/15/14	10/15/14
Do required rolling Chassis Maintienance	30	12/22/14	11/22/14
Mounting Hardware	121	2/18/15	10/15/14
Design Requirements (Mounting)	14	10/28/14	10/15/14
Design (Mounting)	47	1/10/15	11/22/14
Define Requirements (Battery Frame)	7	11/29/14	11/22/14
Design (Battery Frame)	40	1/10/15	11/30/14
Define Requirements (Motor Mount)	7	11/29/14	11/22/14
Design (Motor Mount)	40	1/10/15	11/30/14
Define Requirements (Controller Mount)	7	11/29/14	11/22/14
Design (Controller Mount)	40	1/10/15	11/30/14
Define Requirements (Fairing Mount)	7	11/29/14	11/22/14
Design (Fairing Mount)	14	12/13/14	11/30/14
Build (Mounting)	37	2/18/15	1/11/15
Check CAD for interference	7	1/17/15	1/11/15
Build (Battery frame)	30	2/18/15	1/18/15
Build (Motor Mount)	30	2/18/15	1/18/15
Build (Controller Mount)	30	2/18/15	1/18/15
Build (Fairing Mount)	30	2/18/15	1/18/15
Suspension and Brakes	58	10/29/14	8/31/14
Define Requirements (S and B)	14	9/14/14	8/31/14
Design (S and B)	44	10/29/14	9/15/14
Choose Suspension	14	9/28/14	9/15/14
Choose Brakes	14	9/28/14	9/15/14
Purchase Suspendsion Components	30	10/29/14	9/29/14
Purchase Brakes	30	10/29/14	9/29/14
Build (S and B)	30	2/10/15	1/11/15
Suspension Testing and Tunning	30	2/10/15	1/11/15
Integration Test (Chassis)	30	3/20/15	2/19/15
Test Fit mounting hardware	30	3/20/15	2/19/15
Aerodynamics	210	2/22/15	7/20/14

Task	Duration	Start	Finish
Define Requirements (Aero)	44	9/2/14	7/20/14
Design System (Aero)	99	12/13/14	9/3/14
Decide Fairing Material	7	9/9/14	9/3/14
Define Fairing Bounding Volume and Shape	7	10/21/14	10/15/14
Design and CAD Fairing	30	11/21/14	10/22/14
Purchase Fairing components	21	12/13/14	11/22/14
Build (Aero)	67	2/22/15	12/14/14
Build Molds	30	1/14/15	12/14/14
Build Fairings	30	2/14/15	1/15/15
Paint Fairings	7	2/22/15	2/15/15
Electronics	253	4/6/15	7/20/14
Define Requirements (Electronics)	43	8/31/14	7/20/14
Design (Electronics)	49	10/21/14	9/2/14
Define subcomponents	1	9/2/14	9/2/14
Define connectors	7	9/8/14	9/2/14
Define Data Bus	7	9/8/14	9/2/14
Design Critiical	7	9/15/14	9/9/14
Design Non–Critical	7	9/22/14	9/16/14
Design all Software	7	9/29/14	9/23/14
Define Dimensions of all hardware	7	10/21/14	10/15/14
Buid (Electronics)	101	2/4/15	10/22/14
Critiical	100	2/3/15	10/22/14
Datalogging	100	2/3/15	10/22/14
Low Voltaage Power	60	12/22/14	10/22/14
High Voltage Switching	60	12/22/14	10/22/14
Traction Control	100	2/3/15	10/22/14
Battery Managment system	100	2/3/15	10/22/14
Charging	60	12/22/14	10/22/14
Wiring harness	60	12/22/14	10/22/14
Build all Other	1	2/4/15	2/4/15
Write Software	100	2/3/15	10/22/14
Integration Testing (Electronics)	60	4/6/15	2/5/15
Software Testing	30	3/7/15	2/5/15
Unit Testing Critical	30	3/7/15	2/5/15
Full Electrical testing	30	4/6/15	3/8/15
Mount Powertrain	7	3/14/15	3/8/15
Mount Electronics	7	4/13/15	4/7/15
Assemble Full Vehicle	14	4/27/15	4/14/15
Integration Testing (RW–3)	52	6/19/15	4/28/15
First Spin	7	5/4/15	4/28/15
Vehicle Dyno Testing	15	5/19/15	5/5/15
Vehicle Road Testing	30	6/19/15	5/20/15

Resources List

Name	Default role

Gantt Chart

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Chassis	236	7/20/14	3/20/15
Aerodynamics	210	7/20/14	2/22/15
Electronics	253	7/20/14	4/6/15
Mount Powertrain	7	3/8/15	3/14/15
Mount Electronics	7	4/7/15	4/13/15
Assemble Full Vehicle	14	4/14/15	4/27/15
Integration Testing (RW-3)	52	4/28/15	6/19/15

Resources Chart

Name	Default role	2014											2015											201
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan