

SCHEDULE MANAGEMENT PLAN

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EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

MASTERS OF SCIENCE PROJECT MANAGEMENT CAPSTONE

PMGT 690

JANUARY 2016

Project Schedule Example

Task Mode	Task Name	Duration	Start	Finish	Predecessors	Budget Cost	Earned Value Method
Auto Scheduled	Bike Components PGM 614 3.6 Group Schedule Updated 6-22-15	45.03 days	Thu 6/18/15	Thu 8/20/15		\$0.00	% Complete
Auto Scheduled	Widget Management System	24 hrs	Thu 6/18/15	Mon 6/22/15			% Complete
Auto Scheduled	Initiation	8 hrs	Tue 6/23/15	Tue 6/23/15	1		% Complete
Auto Scheduled	Evaluations & Recommendations	8 hrs	Wed 6/24/15	Wed 6/24/15	2		% Complete
Auto Scheduled	Develop Project Charter	8 hrs	Thu 6/25/15	Thu 6/25/15	3		% Complete
Auto Scheduled	Deliverable: Submit Project Charter	8 hrs	Fri 6/26/15	Fri 6/26/15	4		% Complete
Auto Scheduled	Project Sponsor Reviews Project Charter	16 hrs	Mon 6/29/15	Tue 6/30/15	5		% Complete
Auto Scheduled	Project Charter Signed/Approved	8 hrs	Wed 7/1/15	Wed 7/1/15	6		% Complete
Auto Scheduled	Planning	40 hrs	Thu 7/2/15	Wed 7/8/15	7		% Complete
Auto Scheduled	Create Preliminary Scope Statement	8 hrs	Thu 7/2/15	Thu 7/2/15	7		% Complete
Auto Scheduled	Determine Project Team	16 hrs	Thu 7/9/15	Fri 7/10/15	8		% Complete
Auto Scheduled	Project Team Kickoff Meeting	8 hrs	Mon 7/13/15	Mon 7/13/15	10		% Complete
Auto Scheduled	Develop Project Plan	80 hrs	Mon 7/13/15	Fri 7/24/15	10		% Complete
Auto Scheduled	Submit Project Plan	8 hrs	Mon 7/13/15	Mon 7/13/15	10		% Complete
Auto Scheduled	Milestone: Project Plan Approval	8 hrs	Tue 7/14/15	Tue 7/14/15	13		% Complete
Auto Scheduled	Execution	40 hrs	Wed 7/29/15	Tue 8/4/15	17		% Complete
Auto Scheduled	Project Kickoff Meeting	8 hrs	Wed 7/15/15	Wed 7/15/15	14		% Complete
Auto Scheduled	Verify & Validate User Requirements	80 hrs	Wed 7/15/15	Tue 7/28/15	14		% Complete
Manually Scheduled	Design Planning Specifications Build Bike	4 hrs	Wed 7/29/15	Wed 7/29/15	17		% Complete

Auto Scheduled	Head Tube Angle 70.5 degrees	4 hrs	Wed 7/29/15	Wed 7/29/15	17		% Complete
Auto Scheduled	Seat Tube Angle 73.5 degrees	4 hrs	Wed 7/29/15	Wed 7/29/15	17		% Complete
Auto Scheduled	Chainstay 17"	4 hrs	Wed 7/29/15	Wed 7/29/15			% Complete
Auto Scheduled	Wheel Base length 41.3"	4 hrs	Wed 7/29/15	Wed 7/29/15			% Complete
Manually Scheduled	Procure Materials	56 hrs	Wed 8/5/15	Thu 8/13/15			% Complete
Auto Scheduled	Cut Head Tube 4.7 inches long with 2 " Diameter Tap both sides of cylinder	0.55 hrs	Wed 8/5/15	Wed 8/5/15	15		% Complete
Auto Scheduled	Cut Bottom Bracket Tube 3.5 " w/ 2 " diameter Tap both sides of cylinder	0.55 hrs	Wed 8/5/15	Wed 8/5/15	15		% Complete
Auto Scheduled	Acquire Top Tube Triangular 6000 Alumx 21 inches long	56 hrs	Wed 8/5/15	Thu 8/13/15	15		% Complete
Auto Scheduled	Acquire Top Tube Triangular 6000 Alumx 20 "	56 hrs	Wed 8/5/15	Thu 8/13/15	15		% Complete
Auto Scheduled	Acquire Down tube triangular 24"	24 hrs	Wed 8/5/15	Fri 8/7/15	15		% Complete
Auto Scheduled	Acquire Seat Tube Circular 31.5 mm interior diameter 14" long	56 hrs	Wed 8/5/15	Thu 8/13/15	15		% Complete
Auto Scheduled	Acquire Front Fork After Market Rock Shox	56 hrs	Wed 8/5/15	Thu 8/13/15	15		% Complete
Auto Scheduled	Acquire Head Tube Handle bar assembly	56 hrs	Wed 8/5/15	Thu 8/13/15	15		% Complete
Auto Scheduled	Acquire raw materials for rear triangle by the ton	16 hrs	Wed 8/5/15	Thu 8/6/15	15		% Complete
Manually Scheduled	Create Manufacturing System	8 hrs	Wed 8/5/15	Wed 8/5/15	18		% Complete
Auto Scheduled	Initiate Manufacturing System	8 hrs	Wed 8/5/15	Wed 8/5/15	15		% Complete
Manually Scheduled	REAR CORE Components second triangle of frame	16 hrs	Fri 8/14/15	Mon 8/17/15	27		% Complete
Auto Scheduled	Pre Cut drill Machine REAR Brake Side Bracket w/ Dropout Left rear view	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete
Auto Scheduled	Pre Cut drill and Machine REAR Derailuer Side Bracket w/Dropout Right rear view	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete

Auto Scheduled	Pre set distance with 6" Jig Side Brackets	0.5 hrs	Fri 8/14/15	Fri 8/14/15			% Complete
Auto Scheduled	Fabricate Top Seat Stay Left 15 "	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete
Auto Scheduled	Fabricate Top Seat Stay Right 15 "	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete
Auto Scheduled	Fabricate Bottom Seat Stay Left 18 "	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete
Auto Scheduled	Fabricate Bottom Seat Stay Right 18 "	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete
Auto Scheduled	Fabricate ARC Supports attached to Seat Stays Left and Right 3 inch span	16 hrs	Fri 8/14/15	Mon 8/17/15			% Complete
Auto Scheduled	Weld main Frame together	0.04 days	Fri 8/14/15	Fri 8/14/15	27		% Complete
Auto Scheduled	Weld Rear Frame	9.09 days	Wed 8/5/15	Tue 8/18/15	15		% Complete
Auto Scheduled	Weld rear Derailuer Seat Stay top 15"and Bottom 18"	0.5 hrs	Tue 8/18/15	Tue 8/18/15	40,42,37,38		% Complete
Auto Scheduled	Weld brake plate for brake side w/ dropout to top and Bottom seat stays	0.5 hrs	Tue 8/18/15	Tue 8/18/15	36,39,41,38		% Complete
Auto Scheduled	Weld Arcs to Seat Stays one top and one bottom	0.25 hrs	Tue 8/18/15	Tue 8/18/15	52,53		% Complete
Auto Scheduled	Weld bottom 18 inch Seat Stays to Bottom Bracket and seat Tube	0.25 hrs	Mon 8/10/15	Mon 8/10/15	28,25		% Complete
Auto Scheduled	Weld Top seat stays down Tube two inches below top tube to Seat tube	0.5 hrs	Mon 8/10/15	Mon 8/10/15	28		% Complete
Auto Scheduled	Weld Bottom left seat stay to top of tube along w/ cable guides for brake line 9 inches apart	0.25 hrs	Wed 8/5/15	Wed 8/5/15			% Complete
Auto Scheduled	Weld Bottom right Seat stay to bottom of tube 2 cable guides 8 " apart	0.25 hrs	Wed 8/5/15	Wed 8/5/15			% Complete
Auto Scheduled	Smooth welds and sand blast frame/paint	0.88 days	Tue 8/18/15	Tue 8/18/15	51,44,57,58		% Complete
Auto Scheduled	Deburr Welds	0.5 hrs	Tue 8/18/15	Tue 8/18/15			% Complete
Auto Scheduled	Sand Blast Frame	0.5 hrs	Tue 8/18/15	Tue 8/18/15			% Complete
Auto Scheduled	Paint Frame two tone	7 hrs	Tue 8/18/15	Tue 8/18/15			% Complete

Auto Scheduled	Crank Parts Assembled	1.06 days	Tue 8/18/15	Thu 8/20/15			% Complete
Auto Scheduled	Attach pedals to crank arms	0.06 days	Wed 8/19/15	Thu 8/20/15			% Complete
Auto Scheduled	Install Bottom Bracket spindle assemble into Bottom Bracket cylinder on frame	0.5 hrs	Wed 8/19/15	Thu 8/20/15	62,104		% Complete
Auto Scheduled	Attach Chain rings to crank	0.03 days	Tue 8/18/15	Tue 8/18/15			% Complete
Auto Scheduled	Assemble and Attach crank Arms to Bottom Bracket Spindle	0.25 hrs	Tue 8/18/15	Tue 8/18/15	62		% Complete
Auto Scheduled	Wheels Build Front	0.53 days	Fri 8/7/15	Fri 8/7/15	32		% Complete
Auto Scheduled	Build Rim 26.5 inches by 2.1 inches	1 hr	Fri 8/7/15	Fri 8/7/15			% Complete
Auto Scheduled	Attach spokes to rim and Front Hub	1 hr	Fri 8/7/15	Fri 8/7/15	69		% Complete
Auto Scheduled	True wheels by tuning spokes	1 hr	Fri 8/7/15	Fri 8/7/15	70		% Complete
Auto Scheduled	Wrap rims and glue	0.5 hrs	Fri 8/7/15	Fri 8/7/15	71		% Complete
Auto Scheduled	Install 26.5 X 2.1 thorn proof tubes	0.12 hrs	Fri 8/7/15	Fri 8/7/15	72		% Complete
Auto Scheduled	<inflate tube 1lb>	0.12 hrs	Fri 8/7/15	Fri 8/7/15	73		% Complete
Auto Scheduled	Install and seat tire on rim 26.5X 2.1 rubber mtb tire	0.5 hrs	Fri 8/7/15	Fri 8/7/15	74		% Complete
Auto Scheduled	Inflate tube to specified tire inflation recommendation	0.12 hrs	Fri 8/7/15	Fri 8/7/15	75		% Complete
Auto Scheduled	Attach Finished Wheel to Front Fork	0.24 hrs	Tue 8/18/15	Tue 8/18/15	62,31,30		% Complete
Auto Scheduled	Wheel Build Rear	0.53 days	Fri 8/7/15	Fri 8/7/15	32		% Complete
Auto Scheduled	Build Rim 26.5 inches by 2.1 inches	1 hr	Fri 8/7/15	Fri 8/7/15			% Complete
Auto Scheduled	Attach spokes to rim and rear Hub	1 hr	Fri 8/7/15	Fri 8/7/15	79		% Complete
Auto Scheduled	True wheels by tuning spokes	1 hr	Fri 8/7/15	Fri 8/7/15	80		% Complete
Auto Scheduled	Wrap rims and glue	0.12 hrs	Fri 8/7/15	Fri 8/7/15	81		% Complete
Auto Scheduled	Install 26.5 X 2.1 thorn proof tubes	0.12 hrs	Fri 8/7/15	Fri 8/7/15	82		% Complete

Auto Scheduled	<inflate tube 1lb>	0.12 hrs	Fri 8/7/15	Fri 8/7/15	83		% Complete
Auto Scheduled	Install and seat tire on rim 26.5X 2.1 rubber mtb tire	0.5 hrs	Fri 8/7/15	Fri 8/7/15	84		% Complete
Auto Scheduled	Inflate tube to specified tire inflation recommendation	0.12 hrs	Fri 8/7/15	Fri 8/7/15	85		% Complete
Manually Scheduled	Attach rear 8 speed Cassette and lock	0.24 hrs	Fri 8/7/15	Fri 8/7/15	86		% Complete
Auto Scheduled	Attach finished rear wheel to frame	0.24 hrs	Fri 8/7/15	Fri 8/7/15			% Complete
Manually Scheduled	Install Disc Braking System	0.25 hrs	Tue 8/18/15	Tue 8/18/15			% Complete
Manually Scheduled	Install Front and Rear Disc to Wheel hubs	0.25 hrs	Tue 8/18/15	Tue 8/18/15	30,31,62		% Complete
Auto Scheduled	Attach Brake Calipers to Frame Front and Rear	0.5 hrs	Tue 8/18/15	Wed 8/19/15	30,31,62		% Complete
Auto Scheduled	Run cables to Brake levers and calipers	0.5 hrs	Wed 8/19/15	Wed 8/19/15	91		% Complete
Auto Scheduled	Adust calipers to run smoothly	0.5 hrs	Wed 8/19/15	Wed 8/19/15	92		% Complete
Auto Scheduled	Shifting System	44 days	Thu 6/18/15	Tue 8/18/15			% Complete
Auto Scheduled	Attach front and rear derailleurs	0.25 hrs	Thu 6/18/15	Thu 6/18/15			% Complete
Auto Scheduled	Attach front & rear Shifters to handlebar	0.25 hrs	Tue 8/18/15	Tue 8/18/15	62,31		% Complete
Auto Scheduled	Run cables through shifters and cable guides to rear and front derailleur and adjust tension	0.25 hrs	Fri 8/7/15	Fri 8/7/15	88		% Complete
Auto Scheduled	Adjust pivots on rear and front derailleurs to shift chain smoothly from gear to gear	0.25 hrs	Fri 8/7/15	Fri 8/7/15	97		% Complete
Auto Scheduled	Integration	15.53 days	Wed 7/29/15	Thu 8/20/15			% Complete
Auto Scheduled	Design Concept based on expert industry reviews	1 hr	Wed 7/29/15	Wed 7/29/15	18		% Complete
Auto Scheduled	Check frame design against actual frame for variance in specifications	0.24 hrs	Tue 8/18/15	Tue 8/18/15	59		% Complete
Auto Scheduled	Automate Assembly of components find ways to continously improve processes	8 hrs	Fri 8/7/15	Mon 8/10/15	97		% Complete

Auto Scheduled	Testing	8.44 days	Fri 8/7/15	Thu 8/20/15			% Complete
Auto Scheduled	Stress Frame to test load strength through mechanical means	8 hrs	Tue 8/18/15	Wed 8/19/15	59		% Complete
Auto Scheduled	Stress front and rear wheels components through mechanical means	8 hrs	Tue 8/18/15	Wed 8/19/15	62		% Complete
Auto Scheduled	Automate mechanically all possible Shift variations	8 hrs	Fri 8/7/15	Mon 8/10/15	98		% Complete
Auto Scheduled	Test brake components at variable speeds measure stopping distance load to weight ratio	8 hrs	Wed 8/19/15	Thu 8/20/15	91		% Complete
Auto Scheduled	Smart Phone Speaker Dock Optional accessory	0.11 days	Tue 8/18/15	Wed 8/19/15	30,31,62		% Complete
Auto Scheduled	Attach Phone Housing to right side handle bar	0.12 hrs	Tue 8/18/15	Tue 8/18/15			% Complete
Auto Scheduled	Attach Clamp to right side handle bar	0.36 hrs	Tue 8/18/15	Wed 8/19/15	109		% Complete
Auto Scheduled	Attach Ball and Pivot Joint	0.36 hrs	Wed 8/19/15	Wed 8/19/15	110		% Complete
Auto Scheduled	User Training	0.75 days	Thu 7/16/15	Thu 7/16/15	16		% Complete
Auto Scheduled	Provide Training on System	4 hrs	Thu 7/16/15	Thu 7/16/15			% Complete
Auto Scheduled	Provide Manager Training on System	6 hrs	Thu 7/16/15	Thu 7/16/15			% Complete

References

Microsoft Project 2013