Mass Property Measurement Device

Schweitzer Engineering Labatory

Project Start:	8-Sep-20
Today:	11-Dec-20
Display Week:	13

Masspoint
Piyush Basnet, Joseph Cornwall,
Cameron Eggert, Mark Jaszkowiak, Keegan Stanphill

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2	Past Project Review	TEAM	-	9-Sep-20	15-Sep-20	7	15-Sep-20	-
3	Budget Draft	KS	MJ	11-Sep-20	17-Sep-20	7	16-Sep-20	16-Sep-20
4	Client Visit & Interview	JC	-	11-Sep-20	22-Sep-20	12	16-Sep-20	-
5	Product Requirements	PB	CE	16-Sep-20	24-Sep-20	9	16-Sep-20	16-Sep-20
6	Project Schedule	JC	MJ	22-Sep-20	6-Oct-20	15	6-Oct-20	6-Oct-20
7	Logbook	IND	-	7-Oct-20	8-Oct-20	2	8-Oct-20	-
8	Portfolio	-	-	6-Oct-20	8-Oct-20	3	8-Oct-20	-
9	Measurement Device options	KS	CE	17-Sep-20	22-Sep-20	6	22-Sep-20	22-Sep-20
10	CG measurement Research	IND	-	17-Sep-20	22-Sep-20	6	22-Sep-20	-
11	Design Suite table	PB	CE	22-Sep-20	24-Sep-20	3	22-Sep-20	22-Sep-20
12	Get old team prototype	CE	JC	24-Sep-20	29-Sep-20	6	28-Sep-20	29-Sep-20
13	Measurement of CG (Tension)	KS	CE JC	23-Sep-20	5-Oct-20	13	10-Sep-20	11-Sep-20
14	Measurement of CG (Compression)	MJ	PB JC	23-Sep-20	5-Oct-20	13	7-Oct-20	7-Oct-20
15	Recalculate Z cg equation	MJ	JC	6-Oct-20	8-Oct-20	3	8-Oct-20	9-Oct-20
16	Matlab code plotting error	JC	-	6-Oct-20	8-Oct-20	3	7-Oct-20	-
17	Small cube measurements	PB	MJ	6-Oct-20	8-Oct-20	3	8-Oct-20	8-Oct-20
18	Prototype brainstorm/review	TEAM	-	6-Oct-20	13-Oct-20	8	20-Oct-20	-
19	Prototype Selection	TEAM	-	8-Oct-20	13-Oct-20	6	20-Oct-20	-
20	Snapshot Presentation	CE	KS	7-Oct-20	9-Oct-20	3	12-Oct-20	12-Oct-20
21	Presentation Practice	CE	KS	9-Oct-20	12-Oct-20	4	12-Oct-20	12-Oct-20
22	Snapshot 1	TEAM	-	13-Oct-20	13-Oct-20	1	13-Oct-20	-
	Phase 2 Concept Development			14-Oct-20	11-Dec-20	59		
23	Design Validation Plan	TEAM	-	14-Oct-20	22-Oct-20	9	22-Oct-02	-
24	Uncertainty analysis	MJ	JC	14-Oct-20	21-Oct-20	8	20-Oct-20	20-Oct-20
25	Method of holding parts to table	KS	CE	20-Oct-20	27-Oct-20	8	27-Oct-20	27-Oct-20
26	Lifting Mechanism Concept	PB	MJ	20-Oct-20	27-Oct-20	8	27-Oct-20	27-Oct-20
27	Finalize math model	JC	CE	14-Oct-20	29-Oct-20	16	29-Oct-20	29-Oct-20
28	Value Proposition	KS	CE	22-Oct-20	5-Nov-20	15	5-Nov-20	8-Nov-20
29	Lifting Mechanism Desision matrix	MJ	PB	27-Oct-20	29-Oct-20	3	29-Oct-20	29-Oct-20
30	Pegboard CAD model	CE	KS	27-Oct-20	29-Oct-20	3	29-Oct-20	29-Oct-20
31	Wikipage Draft	PB	KS	27-Oct-20	5-Nov-20	10	2-Nov-20	3-Nov-20
32	Assemble previous prototype	CE	JC	3-Nov-20	10-Nov-20	8	10-Nov-20	10-Nov-20
33	Verify Math model	JC	CE	5-Nov-20	12-Nov-20	8	11-Nov-20	11-Nov-20
34	Lifting Mechanism Design	MJ	PB KS	3-Nov-20	12-Nov-20	10	9-Nov-20	9-Nov-20
35	Design Review Presentation	TEAM	-	9-Nov-20	11-Nov-20	3	11-Nov-20	-
36	Logbook	IND	-	11-Nov-20	12-Nov-20	2	12-Nov-20	-
37	Portfolio	TEAM	-	10-Nov-20	12-Nov-20	3	12-Nov-20	-
	Design solidworks			20-Oct-20	3-Nov-20	15		
	Build new design			27-Oct-20	20-Nov-20	25		
	Update control code			18-Oct-20	3-Nov-20	17		
	Arduino and sensors circuit			25-Oct-20	10-Nov-20	17		
	Snapshot Presentation			30-Nov-20	3-Dec-20	4		
	Snapshot 2			4-Dec-20	4-Dec-20	1		
	Logbook & Portfolio/Wiki			9-Dec-20	11-Dec-20	3		
	Phase 3 System Level Design			5-Dec-20	5-Feb-21	63		
	Design Expo Registration			27-Jan-21	28-Jan-21	2		
	Uncertainty analysis load cells			13-Jan-21	19-Jan-21	7		
	Final sensor selection			19-Jan-21	20-Jan-21	2		
	Order load cells (8 wk lead)			21-Jan-21	21-Jan-21	1		
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	Automate code			13-Jan-21	5-Feb-21	24		
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	Phase 4 Detail Design			16-Jan-21	6-Mar-21	50		
	Engineering Release Review			19-Feb-21	21-Feb-21	3		
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	Bearing selection (1)			16-Jan-21	21-Jan-21	6		
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	Motor/Actuator selection			13-Jan-21	20-Jan-21	8		
	Order Materials (~2 week lead)			25-Jan-21	25-Jan-21	1		
	Assemble Prototype			11-Feb-21	1-Mar-21	19		
	Machine Part (1)			8-Feb-21	15-Feb-21	8		
	Machine Part (2)			8-Feb-21	15-Feb-21	8		
	Machine Part (3)			15-Feb-21	22-Feb-21	8		
	Install sensors			15-Feb-21	20-Feb-21	6		
	Snapshot Presentation			1-Mar-21	5-Mar-21	5		

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	Phase 5 Testing/Refinement			7-Mar-21	8-May-21	63		
	Portfolio & Wikipage			8-Mar-21	10-Mar-21	3		
	Logbook	IND		16-Apr-21	17-Apr-21	2		
	Fix bugs from snapshot			7-Mar-21	14-Mar-21	8		
	Reliability Testing			7-Mar-21	12-Mar-21	6		
	dMFEA analysis			7-Mar-21	14-Mar-21	8		
	Implement dMFEA			14-Mar-21	5-Apr-21	23		
	Nice Finish (SEL shop ~2 wk lead)			5-Apr-21	15-Apr-21	11		
	Reassamble			16-Apr-21	23-Apr-21	8		
	Expo scramble			23-Apr-21	1-May-21	9		
	Technical Presentation			15-Apr-21	1-May-21	17		
	Display Poster			15-Apr-21	1-May-21	17		
	Design Expo			1-May-21	1-May-21	1		
	Final Course Deliverables			1-May-21	8-May-21	8		

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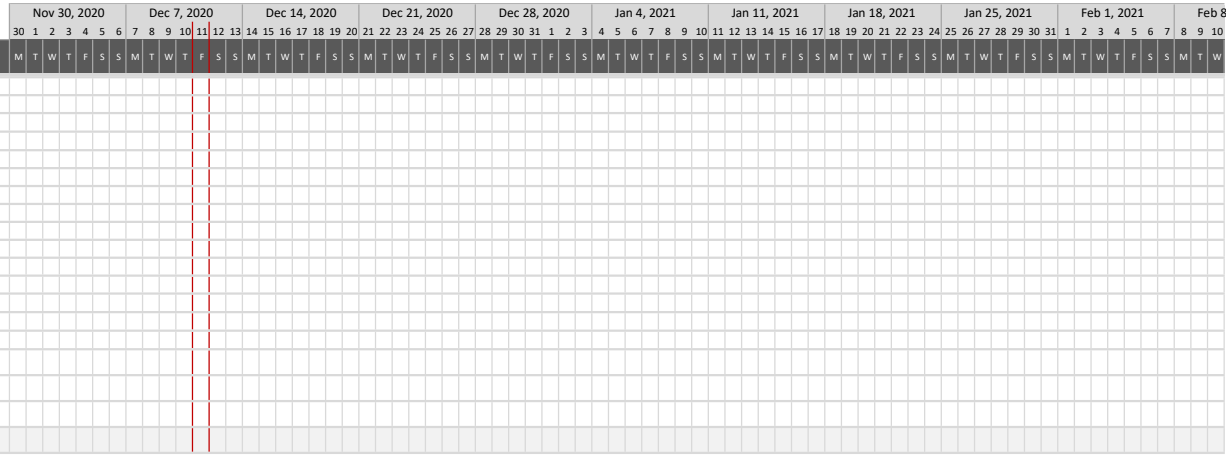

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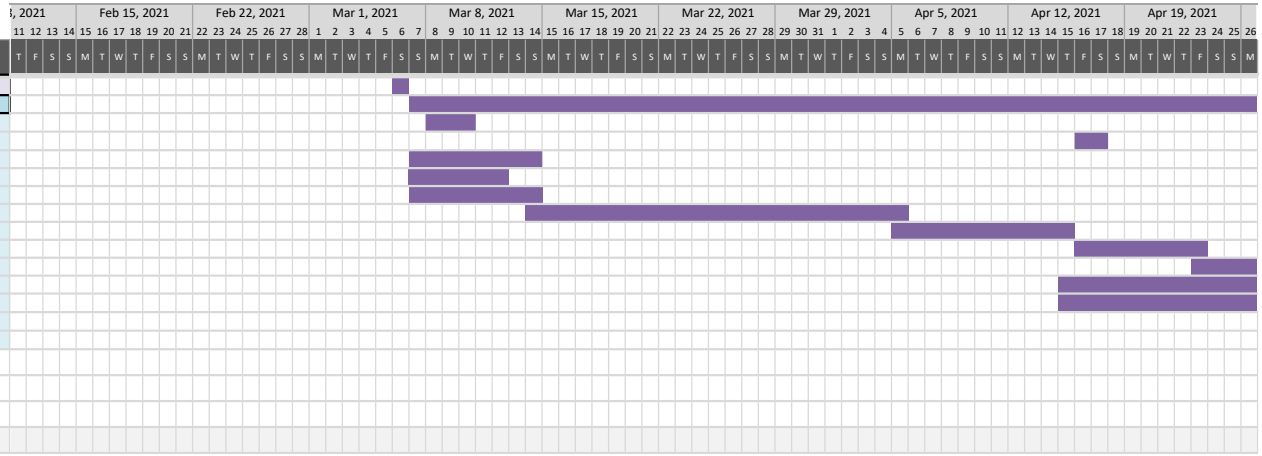

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	Fix bugs from snapshot			7-Mar-21	14-Mar-21	8		
	Reliability Testing			7-Mar-21	12-Mar-21	6		
	dMFEA analysis			7-Mar-21	14-Mar-21	8		
	Implement dMFEA			14-Mar-21	5-Apr-21	23		
	Nice Finish (SEL shop ~2 wk lead)			5-Apr-21	15-Apr-21	11		
	Reassamble			16-Apr-21	23-Apr-21	8		
	Expo scramble			23-Apr-21	1-May-21	9		
	Technical Presentation			15-Apr-21	1-May-21	17		
	Display Poster			15-Apr-21	1-May-21	17		
	Design Expo			1-May-21	1-May-21	1		
	Final Course Deliverables			1-May-21	8-May-21	8		

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Mass Property Measurement Device

Schweitzer Engineering Labatory

Masspoint

Piyush Basnet, Joseph Cornwall,
Cameron Eggert, Mark Jaszkowiak, Keegan Stanphill

Project Start: 8-Sep-20
Today: 11-Dec-20
Display Week: 13

#	TASK	ASSIGNED TO	REVIEWED BY	START	END	WORK DAYS	COMPLETED	REVIEWED
	Phase 1 Planning			8-Sep-20	13-Oct-20	36		
1	Team Contract	TEAM	-	8-Sep-20	10-Sep-20	3	9-Sep-20	-
2	Past Project Review	TEAM	-	9-Sep-20	15-Sep-20	7	15-Sep-20	-
3	Budget Draft	KS	MJ	11-Sep-20	17-Sep-20	7	16-Sep-20	16-Sep-20
4	Client Visit & Interview	JC	-	11-Sep-20	22-Sep-20	12	16-Sep-20	-
5	Product Requirements	PB	CE	16-Sep-20	24-Sep-20	9	16-Sep-20	16-Sep-20
6	Project Schedule	JC	MJ	22-Sep-20	6-Oct-20	15	6-Oct-20	6-Oct-20
7	Logbook	IND	-	7-Oct-20	8-Oct-20	2	8-Oct-20	-
8	Portfolio	-	-	6-Oct-20	8-Oct-20	3	8-Oct-20	-
9	Measurement Device options	KS	CE	17-Sep-20	22-Sep-20	6	22-Sep-20	22-Sep-20
10	CG measurement Research	IND	-	17-Sep-20	22-Sep-20	6	22-Sep-20	-
11	Design Suite table	PB	CE	22-Sep-20	24-Sep-20	3	22-Sep-20	22-Sep-20
12	Get old team prototype	CE	JC	24-Sep-20	29-Sep-20	6	28-Sep-20	29-Sep-20
13	Measurement of CG (Tension)	KS	CE JC	23-Sep-20	5-Oct-20	13	10-Sep-20	11-Sep-20
14	Measurement of CG (Compression)	MJ	PB JC	23-Sep-20	5-Oct-20	13	7-Oct-20	7-Oct-20
15	Recalculate Z cg equation	MJ	JC	6-Oct-20	8-Oct-20	3	8-Oct-20	9-Oct-20
16	Matlab code plotting error	JC	-	6-Oct-20	8-Oct-20	3	7-Oct-20	-
17	Small cube measurements	PB	MJ	6-Oct-20	8-Oct-20	3	8-Oct-20	8-Oct-20
18	Prototype brainstorm/review	TEAM	-	6-Oct-20	13-Oct-20	8	20-Oct-20	-
19	Prototype Selection	TEAM	-	8-Oct-20	13-Oct-20	6	20-Oct-20	-
20	Snapshot Presentation	CE	KS	7-Oct-20	9-Oct-20	3	12-Oct-20	12-Oct-20
21	Presentation Practice	CE	KS	9-Oct-20	12-Oct-20	4	12-Oct-20	12-Oct-20
22	Snapshot 1	TEAM	-	13-Oct-20	13-Oct-20	1	13-Oct-20	-
	Phase 2 Concept Development			14-Oct-20	11-Dec-20	59		
23	Design Validation Plan	TEAM	-	14-Oct-20	22-Oct-20	9	22-Oct-02	-
24	Uncertainty analysis	MJ	JC	14-Oct-20	21-Oct-20	8	20-Oct-20	20-Oct-20
25	Method of holding parts to table	KS	CE	20-Oct-20	27-Oct-20	8	27-Oct-20	27-Oct-20
26	Lifting Mechanism Concept	PB	MJ	20-Oct-20	27-Oct-20	8	27-Oct-20	27-Oct-20
27	Finalize math model	JC	CE	14-Oct-20	29-Oct-20	16	29-Oct-20	29-Oct-20
28	Value Proposition	KS	CE	22-Oct-20	5-Nov-20	15	5-Nov-20	8-Nov-20
29	Lifting Mechanism Desision matrix	MJ	PB	27-Oct-20	29-Oct-20	3	29-Oct-20	29-Oct-20
30	Pegboard CAD model	CE	KS	27-Oct-20	29-Oct-20	3	29-Oct-20	29-Oct-20
31	Wikipage Draft	PB	KS	27-Oct-20	5-Nov-20	10	2-Nov-20	3-Nov-20
32	Assemble previous prototype	CE	JC	3-Nov-20	10-Nov-20	8	10-Nov-20	10-Nov-20
33	Verify Math model	JC	CE	5-Nov-20	12-Nov-20	8	11-Nov-20	11-Nov-20
34	Lifting Mechanism Design	MJ	PB KS	3-Nov-20	12-Nov-20	10	9-Nov-20	9-Nov-20
35	Design Review Presentation	TEAM	-	9-Nov-20	11-Nov-20	3	11-Nov-20	-
36	Logbook	IND	-	11-Nov-20	12-Nov-20	2	12-Nov-20	-
37	Portfolio	TEAM	-	10-Nov-20	12-Nov-20	3	12-Nov-20	-
	Design solidworks			20-Oct-20	3-Nov-20	15		
	Build new design			27-Oct-20	20-Nov-20	25		
	Update control code			18-Oct-20	3-Nov-20	17		
	Arduino and sensors circuit			25-Oct-20	10-Nov-20	17		
	Snapshot Presentation			30-Nov-20	3-Dec-20	4		
	Snapshot 2			4-Dec-20	4-Dec-20	1		
	Logbook & Portfolio/Wiki			9-Dec-20	11-Dec-20	3		
	Phase 3 System Level Design			5-Dec-20	5-Feb-21	63		
	Design Expo Registration			27-Jan-21	28-Jan-21	2		
	Uncertainty analysis load cells			13-Jan-21	19-Jan-21	7		
	Final sensor selection			19-Jan-21	20-Jan-21	2		
	Order load cells (8 wk lead)			21-Jan-21	21-Jan-21	1		
	Uncertainty analysis angle sensor			19-Jan-21	5-Feb-21	18		
	Automate code			13-Jan-21	5-Feb-21	24		
						-		
	Phase 4 Detail Design			16-Jan-21	6-Mar-21	50		
	Engineering Release Review			19-Feb-21	21-Feb-21	3		
	Logbook	IND		20-Feb-21	21-Feb-21	2		
	Team Member Citizenship	IND		25-Feb-21	26-Feb-21	2		
	Load cell connection design			16-Jan-21	5-Feb-21	21		
	Material Selection (1)			16-Jan-21	25-Jan-21	10		
	Material Selection (2)			16-Jan-21	25-Jan-21	10		
	Material Selection (3)			25-Jan-21	5-Feb-21	12		
	Bearing selection (1)			16-Jan-21	21-Jan-21	6		
	Fasterner Selection (1)			17-Jan-21	23-Jan-21	7		
	Motor/Actuator selection			13-Jan-21	20-Jan-21	8		
	Order Materials (~2 week lead)			25-Jan-21	25-Jan-21	1		
	Assemble Prototype			11-Feb-21	1-Mar-21	19		
	Machine Part (1)			8-Feb-21	15-Feb-21	8		
	Machine Part (2)			8-Feb-21	15-Feb-21	8		
	Machine Part (3)			15-Feb-21	22-Feb-21	8		
	Install sensors			15-Feb-21	20-Feb-21	6		
	Snapshot Presentation			1-Mar-21	5-Mar-21	5		

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Display Week: 13

#	TASK	ASSIGNED TO	REVIEWED BY	START	END	WORK DAYS	COMPLETED	REVIEWED
	Snapshot 3			6-Mar-21	6-Mar-21	1		
	Phase 5 Testing/Refinement			7-Mar-21	8-May-21	63		
	Portfolio & Wikipage			8-Mar-21	10-Mar-21	3		
	Logbook	IND		16-Apr-21	17-Apr-21	2		
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	Design Expo			1-May-21	1-May-21	1		
	Final Course Deliverables			1-May-21	8-May-21	8		

	Jul 12, 2021							Jul 19, 2021							Jul 26, 2021						
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S

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