

ID	Task Mode	Task Name	Duration	Start	Finish	Gantt Chart																														
						25,'12	Dec 9,'12	Dec 23,'12	Jan 6,'13	Jan 20,'13	Feb 3,'13	Feb 17,'13	Mar 3,'13	Mar 17,'13	Mar 31,'13	Apr 14,'13	Apr 28,'13	May																		
1		<b>Project Scope</b>	<b>30 days</b>	<b>Mon 12/3/12</b>	<b>Fri 1/11/13</b>	[Gantt bar for Project Scope]																														
2		define project scope	5 days	Mon 12/3/12	Fri 12/7/12	[Gantt bar for define project scope]																														
3		finalize customer needs	5 days	Mon 12/10/12	Fri 12/14/12	[Gantt bar for finalize customer needs]																														
4		finalize specs	5 days	Mon 12/17/12	Fri 12/21/12	[Gantt bar for finalize specs]																														
5		write risk assessment	16 days	Mon 12/17/12	Mon 1/7/13	[Gantt bar for write risk assessment]																														
6		MSD system design review	1 day	Fri 1/11/13	Fri 1/11/13	[Gantt bar for MSD system design review]																														
7						[Gantt bar for empty row]																														
8		<b>Design Path, pre integration</b>				[Gantt bar for Design Path, pre integration]																														
9		customer survey creation	5 days	Mon 12/10/12	Fri 12/14/12	[Gantt bar for customer survey creation]																														
10		analyze customer survey results	2 days	Fri 12/14/12	Mon 12/17/12	[Gantt bar for analyze customer survey results]																														
11		analyze anthropometric data	5 days	Mon 12/24/12	Fri 12/28/12	[Gantt bar for analyze anthropometric data]																														
12		research manuf. Systems (time studies, LCA, cell layout)	5 days	Mon 1/21/13	Fri 1/25/13	[Gantt bar for research manuf. Systems]																														
13		research materials	5 days	Mon 1/14/13	Fri 1/18/13	[Gantt bar for research materials]																														
14		stress or structural analysis	5 days	Mon 2/4/13	Fri 2/8/13	[Gantt bar for stress or structural analysis]																														
15		fatigue analysis	5 days	Mon 2/11/13	Fri 2/15/13	[Gantt bar for fatigue analysis]																														
16		thermal analysis	5 days	Mon 2/18/13	Fri 2/22/13	[Gantt bar for thermal analysis]																														
17		brainstorm / sketch possible enclosure options	3 days	Thu 12/13/12	Mon 12/17/12	[Gantt bar for brainstorm / sketch possible enclosure options]																														
18		refine proposed enclosures	5 days	Mon 12/17/12	Fri 12/21/12	[Gantt bar for refine proposed enclosures]																														
19		<b>enclosure sketches (of final solution)</b>	<b>5 days</b>	<b>Mon 1/7/13</b>	<b>Fri 1/11/13</b>	[Gantt bar for enclosure sketches]																														
20		enclosure CAD	10 days	Mon 1/14/13	Fri 1/25/13	[Gantt bar for enclosure CAD]																														
21		reasearch prototype options	5 days	Mon 1/21/13	Fri 1/25/13	[Gantt bar for reasearch prototype options]																														
22		tolerance analysis	5 days	Mon 1/28/13	Fri 2/1/13	[Gantt bar for tolerance analysis]																														
23		rapid prototype alpha	5 days	Mon 2/4/13	Fri 2/8/13	[Gantt bar for rapid prototype alpha]																														
24		customer fitting of alpha	5 days	Mon 2/11/13	Fri 2/15/13	[Gantt bar for customer fitting of alpha]																														
25		update CAD for beta	5 days	Mon 2/18/13	Fri 2/22/13	[Gantt bar for update CAD for beta]																														
26		rapid prototype beta	5 days	Mon 3/4/13	Fri 3/8/13	[Gantt bar for rapid prototype beta]																														
27		customer fitting of beta	5 days	Mon 3/11/13	Fri 3/15/13	[Gantt bar for customer fitting of beta]																														
28		update CAD for final enclosure	5 days	Mon 3/18/13	Fri 3/22/13	[Gantt bar for update CAD for final enclosure]																														
29		<b>rapid prototype final enclosure (for integration)</b>	<b>5 days</b>	<b>Mon 3/25/13</b>	<b>Fri 3/29/13</b>	[Gantt bar for rapid prototype final enclosure]																														
30						[Gantt bar for empty row]																														
31		<b>EE Path, pre-integration</b>				[Gantt bar for EE Path, pre-integration]																														
32		research human voice range	1 hr	Fri 12/21/12	Fri 12/21/12	[Gantt bar for research human voice range]																														
33		research battery charger chip	1 wk	Sun 12/30/12	Thu 1/3/13	[Gantt bar for research battery charger chip]																														
34		research coulomb counter chip	1 day	Sun 12/30/12	Sun 12/30/12	[Gantt bar for research coulomb counter chip]																														
35		research directional microphone	1 wk	Sun 12/30/12	Thu 1/3/13	[Gantt bar for research directional microphone]																														
36		research omnidirectional microphone	1 wk	Sun 12/30/12	Thu 1/3/13	[Gantt bar for research omnidirectional microphone]																														
37		research D-Class amplifier	1 day	Sun 12/30/12	Sun 12/30/12	[Gantt bar for research D-Class amplifier]																														
38		research rechargable batteries	1 day	Sun 12/30/12	Sun 12/30/12	[Gantt bar for research rechargable batteries]																														
39		research microcontroller/DSP	1 wk	Sun 12/30/12	Thu 1/3/13	[Gantt bar for research microcontroller/DSP]																														
40		Create BOM (parts for eval and prototype)	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Create BOM]																														
41		preliminary parts order	2 days	Thu 1/17/13	Fri 1/18/13	[Gantt bar for preliminary parts order]																														
42		Aquire eval board for battery charging chip	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Aquire eval board for battery charging chip]																														
43		Aquire eval board for coulomb counter chip	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Aquire eval board for coulomb counter chip]																														
44		Aquire samples of batteries	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Aquire samples of batteries]																														
45		(Aquire eval board for Class D amplifier chip)	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for (Aquire eval board for Class D amplifier chip)]																														
46		Aquire samples of directional microphone	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Aquire samples of directional microphone]																														
47		Aquire samples of omnidirectional microphone	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Aquire samples of omnidirectional microphone]																														
48		Aquire eval board for microcontroller/DSP	1 wk	Thu 1/10/13	Wed 1/16/13	[Gantt bar for Aquire eval board for microcontroller/DSP]																														
49		Design digital signal filter and amplifier in MATLAB	2 wks	Fri 12/21/12	Thu 1/3/13	[Gantt bar for Design digital signal filter and amplifier in MATLAB]																														
50		implementing digital signal filter in C	3 wks	Sun 1/13/13	Thu 1/31/13	[Gantt bar for implementing digital signal filter in C]																														
51		test operation of evaluation boards	1 wk	Thu 1/17/13	Wed 1/23/13	[Gantt bar for test operation of evaluation boards]																														
52		design circuit schematic	1 wk	Thu 1/24/13	Wed 1/30/13	[Gantt bar for design circuit schematic]																														
53		designed PCB 1.0	1 wk	Thu 1/31/13	Wed 2/6/13	[Gantt bar for designed PCB 1.0]																														
54		secondary parts order	1 wk	Thu 1/31/13	Wed 2/6/13	[Gantt bar for secondary parts order]																														
55		print PCB 1.0	1 wk	Thu 2/7/13	Wed 2/13/13	[Gantt bar for print PCB 1.0]																														
56		populate and test PCB 1.0	1 wk	Thu 2/14/13	Wed 2/20/13	[Gantt bar for populate and test PCB 1.0]																														
57		debug PCB 1.0	1 wk	Thu 2/21/13	Wed 2/27/13	[Gantt bar for debug PCB 1.0]																														
58		print PCB 2.0 (reprint PCB 1.0)	1 wk	Thu 2/28/13	Wed 3/6/13	[Gantt bar for print PCB 2.0 (reprint PCB 1.0)]																														
59		populate PCB 2.0	1 wk	Thu 3/7/13	Wed 3/13/13	[Gantt bar for populate PCB 2.0]																														
60		debug PBC 2.0	1 wk	Thu 3/14/13	Wed 3/20/13	[Gantt bar for debug PBC 2.0]																														
61		<b>print PCB 3.0 (final, for system integration)</b>	<b>1 wk</b>	<b>Thu 3/21/13</b>	<b>Wed 3/27/13</b>	[Gantt bar for print PCB 3.0 (final, for system integration)]																														
62						[Gantt bar for empty row]																														
63		<b>System Integration (EE + ME)</b>				[Gantt bar for System Integration (EE + ME)]																														
64		physical system integration (assemble parts)	5 days	Mon 4/1/13	Fri 4/5/13	[Gantt bar for physical system integration (assemble parts)]																														
65		full system test (what tests)	10 days	Mon 4/1/13	Fri 4/12/13	[Gantt bar for full system test (what tests)]																														
66		<b>working prototype DUE</b>	<b>1 day</b>	<b>Fri 4/26/13</b>	<b>Fri 4/26/13</b>	[Gantt bar for working prototype DUE]																														
67						[Gantt bar for empty row]																														
68		<b>Post-Integration</b>			<b>Thu 12/20/12</b>	[Gantt bar for Post-Integration]																														
69		create final poster	5 days	Mon 4/15/13	Fri 4/19/13	[Gantt bar for create final poster]																														
70		Imagine RIT prep (print extra enclosures?)	10 days	Mon 4/22/13	Fri 5/3/13	[Gantt bar for Imagine RIT prep (print extra enclosures?)]																														
71		Imagine RIT (and collect final user data)	2 days	Sat 5/4/13	Sun 5/5/13	[Gantt bar for Imagine RIT (and collect final user data)]																														
72		analyze final customer feedback from Imagine RIT	3 days	Mon 5/6/13	Wed 5/8/13	[Gantt bar for analyze final customer feedback from Imagine RIT]																														
73		Report final BOM of electrical and mechanical parts required for manufacture	2 days	Mon 4/1/13	Tue 4/2/13	[Gantt bar for Report final BOM of electrical and mechanical parts required for manufacture]																														
74		create / finalize part drawings	5 days	Mon 4/1/13	Fri 4/5/13	[Gantt bar for create / finalize part drawings]																														
75		create assembly drawings (top level of part drawings)	5 days	Mon 4/8/13	Fri 4/12/13	[Gantt bar for create assembly drawings (top level of part drawings)]																														
76		create maintenance instructions (user manual)	5 days	Mon 4/1/13	Fri 4/5/13	[Gantt bar for create maintenance instructions (user manual)]																														
77		create standard work instructions for manufacture	5 days	Mon 4/1/13	Fri 4/5/13	[Gantt bar for create standard work instructions for manufacture]																														
78		creat manufacturing layout	5 days	Mon 4/1/13	Fri 4/5/13	[Gantt bar for creat manufacturing layout]																														
79		simulate manufacturing process	5 days	Mon 4/8/13	Fri 4/12/13	[Gantt bar for simulate manufacturing process]																														
80		finalize and document manufacture plan	5 days	Mon 4/15/13	Fri 4/19/13	[Gantt bar for finalize and document manufacture plan]																														
81		write final paper	10 days	Mon 4/22/13	Fri 5/3/13	[Gantt bar for write final paper]																														
82		create final presentation keynote	5 days	Mon 4/29/13	Fri 5/3/13	[Gantt bar for create final presentation keynote]																														
83		Final Design Review (DATE TENTATIVE)	1 day	Fri 5/10/13	Fri 5/10/13	[Gantt bar for Final Design Review (DATE TENTATIVE)]																														

Project: P13038\_Time\_Jan9  
Date: Wed 1/9/13

Task: [Blue bar] Summary [Grey bar] External Milestone [White bar] Inactive Summary [White bar] Manual Summary Rollup [White bar] Finish-only [Blue bar]

Split: [Dotted bar] Project Summary [White bar] Inactive Task [White bar] Manual Task [White bar] Manual Summary [Blue bar] Deadline [Blue bar]

Milestone: [Diamond] External Tasks [Grey bar] Inactive Milestone [White bar] Duration-only [White bar] Start-only [Blue bar] Progress [Blue bar]

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