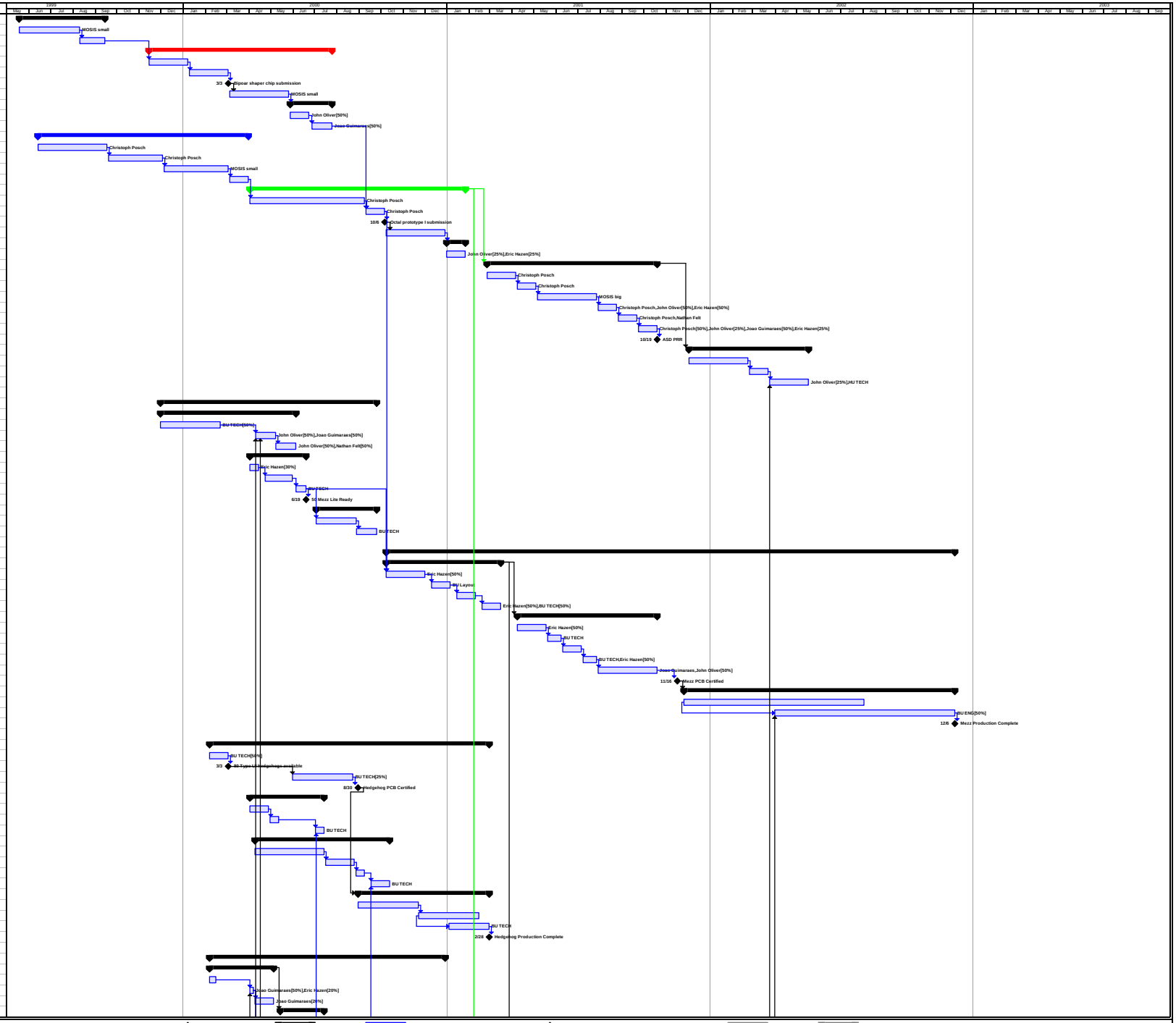
ID		WBS	Task Name	Duration
1		1	ASD99b (Wilkinson)	85 days
2		1.5.9.1.1.2	fabrication	12 wks
3		1.5.9.1.1.2	test	5 wks
4		2	ASD99c (Bipolar shaper+Wilkinson)	182 days
5		1.5.9.1.1.1	design	8 wks
6		1.5.9.1.1.1	layout	8 wks
7		1.5.9.1.1.2	Bipoar shaper chip submission	0 days
8		1.5.9.1.1.2	fabrication	12 wks
9			**test**	**42 days**
10		1.5.9.1.1.1	Bench test	4 wks
11		1.5.9.1.1.1	High rate tests (hot source)	4 wks
12		3	ASD99d (ASD-lite / cal-inj, programmable, serial	210 days
13		1.5.9.1.1.1	design	14 wks
14		1.5.9.1.1.1	layout	11 wks
15		1.5.9.1.1.2	fabrication	13 wks
16		1.5.9.1.1.2	test	4 wks
17		4	ASD00a (Octal I prototype, review esd)	215 days
18		1.5.9.1.1.1	design	23 wks
19		1.5.9.1.1.1	layout	4 wks
20			Octal prototype I submission	0 days
21		1.5.9.1.1.2	fabrication	12 wks
22		4.5	**test**	**20 days**
23		1.5.9.1.1.1	Bench test	4 wks
24		5	ASD00b (Octal II prototype)	170 days
25		1.5.9.1.1.1	design	6 wks
26		1.5.9.1.1.1	layout	4 wks
27		1.5.9.1.1.2	fabrication	12 wks
28		1.5.9.1.1.1	test	4 wks
29		1.5.9.1.1.1	Octal II prototype beam test	4 wks
30		1.5.9.1.1.1	Beam test evaluation	4 wks
31		1.5.9.1.1.1	ASD PRR	0 days
32			MDT-ASD production	120 days
33		1.5.9.1.1.3.1	fabrication	12 wks
34		1.5.9.1.1.3.2	packaging	4 wks
35		1.5.9.1.1.3.3	test	8 wks
36				
37			**Mezz Lite**	**214 days**
38			**Prototype I (Rev D)**	**134 days**
39		1.5.9.1.2.4.2	Lab Testing	59 days
40		1.5.9.1.2.4.2	On-Chamber Testing	20 days
41		1.5.9.1.2.4.2	Optimize System Noise Performance	20 days
42			**Production I (Rev E, 50pc)**	**56 days**
43		1.5.9.1.2.4.1	PCB Layout Revision	10 days
44		1.5.9.1.2.4.2	Fab and Assy	28 days
45		1.5.9.1.2.4.2	Testing	10 days
46			50 Mezz Lite Ready	0 days
47			**Production II (350pc)**	**60 days**
48		1.5.9.1.2.4.3	Fab and Assy	40 days
49		1.5.9.1.2.4.3	Production Testing	20 days
50				
51			**Mezz Production**	**565 days**
52			**Prototype I**	**115 days**
53		1.5.9.1.2.1	Design	40 days
54		1.5.9.1.2.1	PCB Layout	20 days
55		1.5.9.1.2.2	Fab and Assy	20 days
56		1.5.9.1.2.2	Testing (Lab, On-Chamber)	20 days
57			**Prototype II**	**140 days**
58		1.5.9.1.2.1	Design	30 days
59		1.5.9.1.2.1	PCB Layout	15 days
60		1.5.9.1.2.2	Fab and Assy	20 days
61		1.5.9.1.2.2	Lab Testing	15 days
62		1.5.9.1.2.2	On-Chamber Testing	60 days
63			**Mezz PCB Certified**	0 days
64			**Production**	**270 days**
65		1.5.9.1.2.3	Fab and Assy	180 days
66		1.5.9.1.2.3.3	Testing	180 days
67			**Mezz Production Complete**	0 days
68				
69			**Signal Hedgehog 3x8**	**278 days**
70		1.5.9.2.1.2	Lab Test and Rework	20 days
71			80 Type I,II hedgehogs available	0 days
72		1.5.9.2.1.2	On-Chamber Test (on Mod-Zertes)	60 days
73			**Hedgehog PCB Certified**	0 days
74			**Production I (200pc for Mod-0)**	**75 days**
75			Fab and Assy	4 wks
76			Clean and Coat	2 wks
77			Test	2 wks
78			**Production II (600pc for US Chambers)**	**135 days**
79			Procure Parts	14 wks
80			Fab and Assy	6 wks
81			Clean and Coat	2 wks
82			Test	4 wks
83			**Production III (2612)**	**130 days**
84			Procure Parts	12 wks
85		1.5.9.2.1.3	Fab and Assy	12 wks
86		1.5.9.2.1.3.3	Testing	8 wks
87		9.8	**Hedgehog Production Complete**	0 days
88				
89			**Signal Patch Panel**	**235 days**
90			**Prototype I**	**65 days**
91		1.5.9.3.1.2	Fabrication of Prototypes	7 days
92		1.5.9.3.1.2	Install Proto+Cables on Chamber	5 days
93		1.5.9.3.1.2	On-Chamber Test	20 days
94			**Prototype II**	**45 days**



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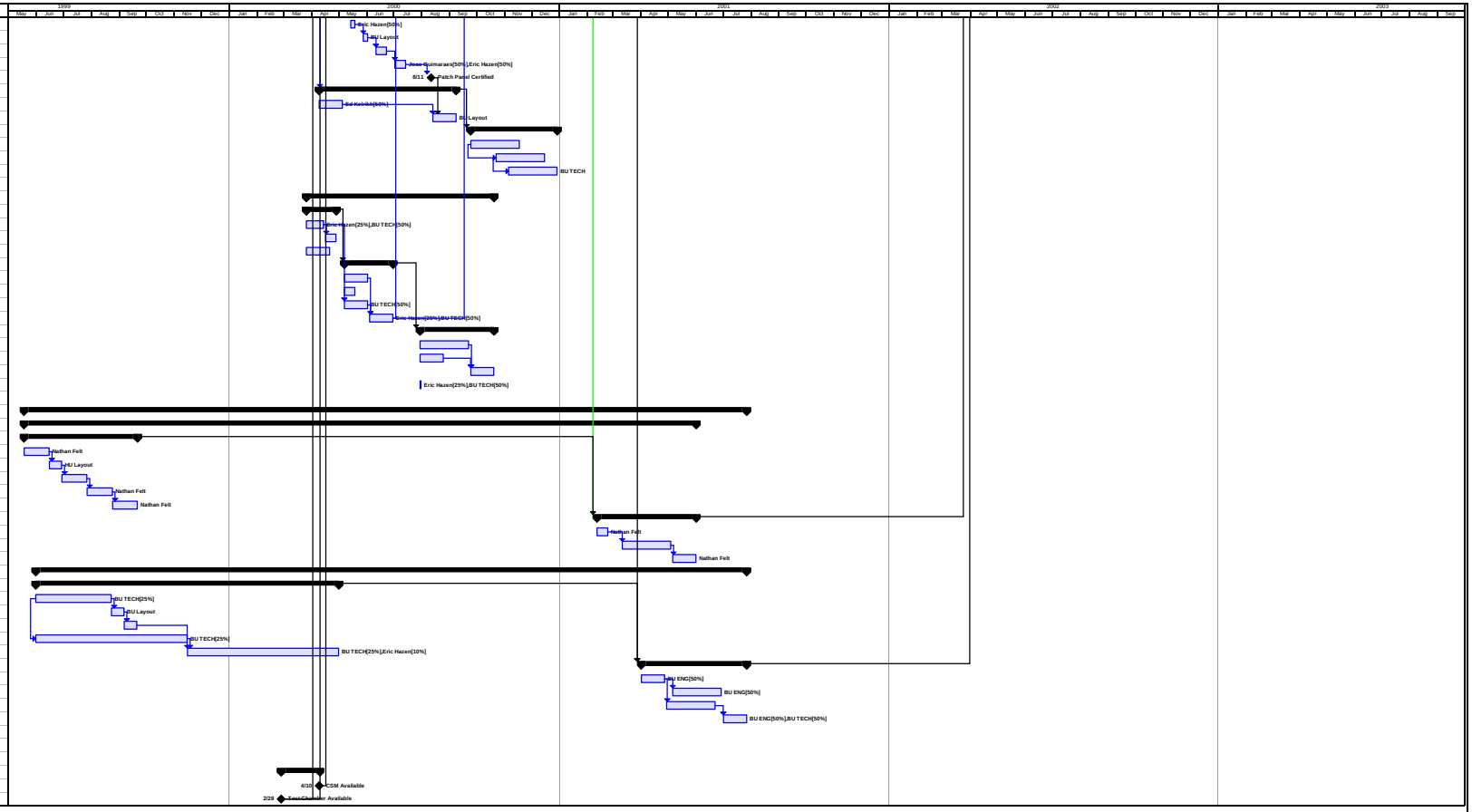
Task | Split | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Split | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary

ID		WBS	Task Name	Duration
95		1.5.9.3.1.1	Design	5 days
96		1.5.9.3.1.1	PCB Layout	5 days
97		1.5.9.3.1.2	Fab and Assy	10 days
98		1.5.9.3.1.2	Testing	10 days
99			Patch Panel Certified	0 days
100			**Variants (4) for US Chamber Types**	**110 days**
101			Mechanical Designs	20 days
102			PCB Layouts	20 days
103			**Production (US Chambers only)**	**70 days**
104		1.5.9.3.1.3.1	PCB Fabrication	40 days
105		1.5.9.3.1.3.2	Assembly	40 days
106		1.5.9.3.1.3.3	Testing	40 days
107				
108		**1.5.9.2.3**	**Hedgehog Card Test Stand**	**150 days**
109		**1.5.9.2.3.1**	**Design**	**25 days**
110			Electronic Design	15 days
111			Mechanical Design	10 days
112			Parts Procurement	20 days
113		**1.5.9.2.3.2**	**Prototype (use for first production tests)**	**40 days**
114			Electronic Fab and Assy	20 days
115			Mechanical Fab	10 days
116			Programming	20 days
117			Integration and Testing	20 days
118		**1.5.9.2.3.3**	**Fabrication (for large-volume tests)**	**60 days**
119			Electronics	40 days
120			Mechanical	20 days
121			Integration and Testing	20 days
122		11.3.4		1 day
123				
124			**Mezzanine Card / MDT-ASD Test Stand**	**573 days**
125			**MDT-ASD Test Stand**	**533 days**
126			**Prototype**	**90 days**
127		1.5.9.1.3.1	Design	20 days
128		1.5.9.1.3.1	PCB Layout	10 days
129		1.5.9.1.3.2	Fab and Assy	20 days
130		1.5.9.1.3.1	Programming	20 days
131		1.5.9.1.3.2	Testing	20 days
132			**Production**	**80 days**
133		1.5.9.1.3.1	Design	10 days
134		1.5.9.1.3.3	Fab and Assy	40 days
135		1.5.9.1.3.3	Testing	20 days
136			**Mezzanine Card Test Stand**	**564 days**
137		**12.2.1**	**Prototype**	**240 days**
138		1.5.9.1.3.1	Design	60 days
139		1.5.9.1.3.1	PCB Layout	10 days
140		1.5.9.1.3.2	Fab and Assy	10 days
141		1.5.9.1.3.1	Programming	120 days
142		1.5.9.1.3.2	Testing	120 days
143		**12.2.2**	**Production**	**85 days**
144		1.5.9.1.3.1	Design	20 days
145		1.5.9.1.3.1	Programming	40 days
146		1.5.9.1.3.3	Fab and Assy	40 days
147		1.5.9.1.3.3	Testing	20 days
148				
149				
150				
151			**External Milestones**	**31 days**
152			CSM Available	1 day
153			Test Chamber Available	1 day



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Task | Split | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Split | Rolled Up Milestone | Rolled Up Progress | External Tasks | Project Summary