




















ID	Task Mode	Task Name	Duration	Start	Finish	Start Slack	Predecessors	Resource Names	December		
									11/27	12/4	12/11
1		<b>Phase 1 - Build</b>	<b>62 days</b>	<b>Wed 12/7/17</b>	<b>Thu 3/2/17</b>	<b>0 days</b>					
2		Order purchased parts	2 days	Wed 12/7/17	Thu 12/8/17	6 days		Joe			
3		Receive purchased parts	6 wks	Fri 12/9/17	Fri 1/27/18	1.2 wks	2	Elbert			
4		Machining Measurement Structure	2 days	Mon 1/16/18	Tue 1/17/18	12 days		Elbert			
5		Machining Tool Acceptor	2 days	Wed 1/18/18	Thu 1/19/18	12 days	4	Elbert			
6		3D Print Housing	2 days	Fri 1/20/18	Mon 1/23/18	12 days	5	Brian			
7		build launchpad strap	1 day	Tue 1/24/18	Tue 1/24/18	12 days	6	Brian			
8		Test fit bolts for full assembly/Re-machine	1 day	Mon 1/30/18	Mon 1/30/18	69 days	3,5	Elbert			
9		Practice Strain Gauge Mounting	6 days	Mon 1/23/18	Mon 1/30/18	151 days		Joe			
10		<b>Mount Strain gauges &amp; pads onto measurement struct</b>	<b>15 days</b>	<b>Tue 1/31/18</b>	<b>Mon 2/20/18</b>	<b>151 days</b>					
11		Mount first 12 gauges	1 wk	Tue 1/31/18	Mon 2/6/18	10.2 wks	9,4	Joe			
12		complete mounting of all sensors & pads	1 wk	Tue 2/7/18	Mon 2/13/18	10.2 wks	11	Joe			
13		test & repair	1 wk	Tue 2/14/18	Mon 2/20/18	10.2 wks	12	Muhammad			
14		Solder wires & Strain gages to pads	3 days	Tue 2/21/18	Thu 2/23/18	151 days	13	Joe			
15		<b>Electronics Packaging</b>	<b>4 days</b>	<b>Mon 1/30/18</b>	<b>Thu 2/2/18</b>	<b>7 days</b>					
16		build amplifier circuit	1 day	Tue 1/31/18	Tue 1/31/18	6 days	3	Muhammad			
17		Confirm Amp/cir meets requirements	1 day	Wed 2/1/18	Wed 2/1/18	6 days	16	Muhammad			
18		Attach wires to bluetooth device	1 day	Mon 1/30/18	Mon 1/30/18	69 days	3	Muhammad			
19		mount elec components in housing	1 day	Thu 2/2/18	Thu 2/2/18	6 days	17,7	Muhammad			
20		Attach strain gage wires to electronics	1 day	Tue 2/14/18	Tue 2/14/18	8 days	19	Joe			
21		<b>Test functionality</b>	<b>4 days</b>	<b>Mon 2/27/18</b>	<b>Thu 3/2/18</b>	<b>0 days</b>					
22		Wheatstone functionality	1 day	Mon 2/27/18	Mon 2/27/18	10 days	20	Muhammad			
23		Bluetooth transmission	1 day	Tue 2/28/18	Tue 2/28/18	0 days	22	Muhammad			
24		troubleshoot/fix	2 days	Wed 3/1/18	Thu 3/2/18	0 days	23	Muhammad			
25		Final Assembly	2 days	Fri 3/3/18	Wed 3/8/18	27.4 days	21	Zac			

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26	★	<b>Phase 2 - Testing</b>	<b>33 days</b>	<b>Mon 3/6/17</b>	<b>Wed 4/19/17</b>	<b>11.6 days</b>					
27	★	<b>Test Plan 1: Communication</b>	<b>1 day</b>	<b>Fri 3/10/17</b>	<b>Fri 3/10/17</b>	<b>0 days</b>					
28	🔧	Prepare safety material	0.1 days	Fri 3/10/17	Fri 3/10/17	-2.4 days		Brian			
29	🔧	Ready Computer for GUI	0.1 days	Fri 3/10/17	Fri 3/10/17	0.9 days		Joe			
30	🔧	Mount Device & test communications	0.1 days	Mon 3/13/17	Mon 3/13/17	-0.4 days	28	Zac			
31	🔧	Spin Device & test communications	0.2 days	Mon 3/13/17	Mon 3/13/17	-0.4 days	30	Zac			
32	🔧	Connection troubleshooting	0.1 days	Mon 3/13/17	Mon 3/13/17	-0.4 days	31	Muhammad			
33	🔧	Create Digital Filtering in LabView	2 days	Thu 3/9/17	Fri 3/10/17	28 days	25	Zac			
34	🔧	Create script for data dump	2 days	Thu 3/9/17	Fri 3/10/17	27.4 days	25	Muhammad			
35	🔧	<b>Test Plan 2: Calibration</b>	<b>0.5 days</b>	<b>Mon 3/13/17</b>	<b>Mon 3/13/17</b>	<b>127.4 days</b>					
36	🔧	User input Material	0.1 days	Mon 3/13/17	Mon 3/13/17	127.4 days	34	Brian			
37	🔧	Zero out deflection	0.1 days	Mon 3/13/17	Mon 3/13/17	127.4 days	36	Elbert			
38	🔧	Iterate cutting force in rpm	0.1 days	Mon 3/13/17	Mon 3/13/17	127.4 days	37	Elbert			
39	🔧	Record Deflection in each clean cut	0.2 days	Mon 3/13/17	Mon 3/13/17	127.4 days	38	Brian			
40	🔧	<b>Test Plan 3: Deflection Compensation</b>	<b>5.6 days</b>	<b>Mon 3/6/17</b>	<b>Mon 3/13/17</b>	<b>132.9 days</b>					
41	🔧	Check material properties in code	0.1 days	Mon 3/13/17	Mon 3/13/17	127.4 days	39,35	Elbert			
42	🔧	Check parameters	0.1 days	Mon 3/6/17	Mon 3/6/17	32.9 days		Elbert			
43	🔧	Width of Cut Calculations	0.1 days	Mon 3/6/17	Mon 3/6/17	32.9 days		Zac			
44	🔧	Document Setup time & process	0.5 days	Mon 3/6/17	Mon 3/6/17	32.5 days		Zac			
45	🔧	Document on EDGE	0.5 days	Mon 3/6/17	Mon 3/6/17	32.5 days		Joe			
46	★	<b>Completion</b>	<b>14 days</b>	<b>Wed 4/19/17</b>	<b>Sat 5/6/17</b>	<b>1 day</b>					
47	🔧	Poster	1 day	Wed 4/19/17	Wed 4/19/17	12 days	45	Joe			
48	🔧	Exhibit Layout	2 days	Wed 4/19/17	Thu 4/20/17	1 day	45	Zac			
49	🔧	Exhibit Form & Approval	0.1 days	Tue 5/2/17	Tue 5/2/17	1.9 days	48	Zac			
50	🔧	Build Exhibit	2 days	Tue 5/2/17	Thu 5/4/17	1.9 days	49	Elbert			

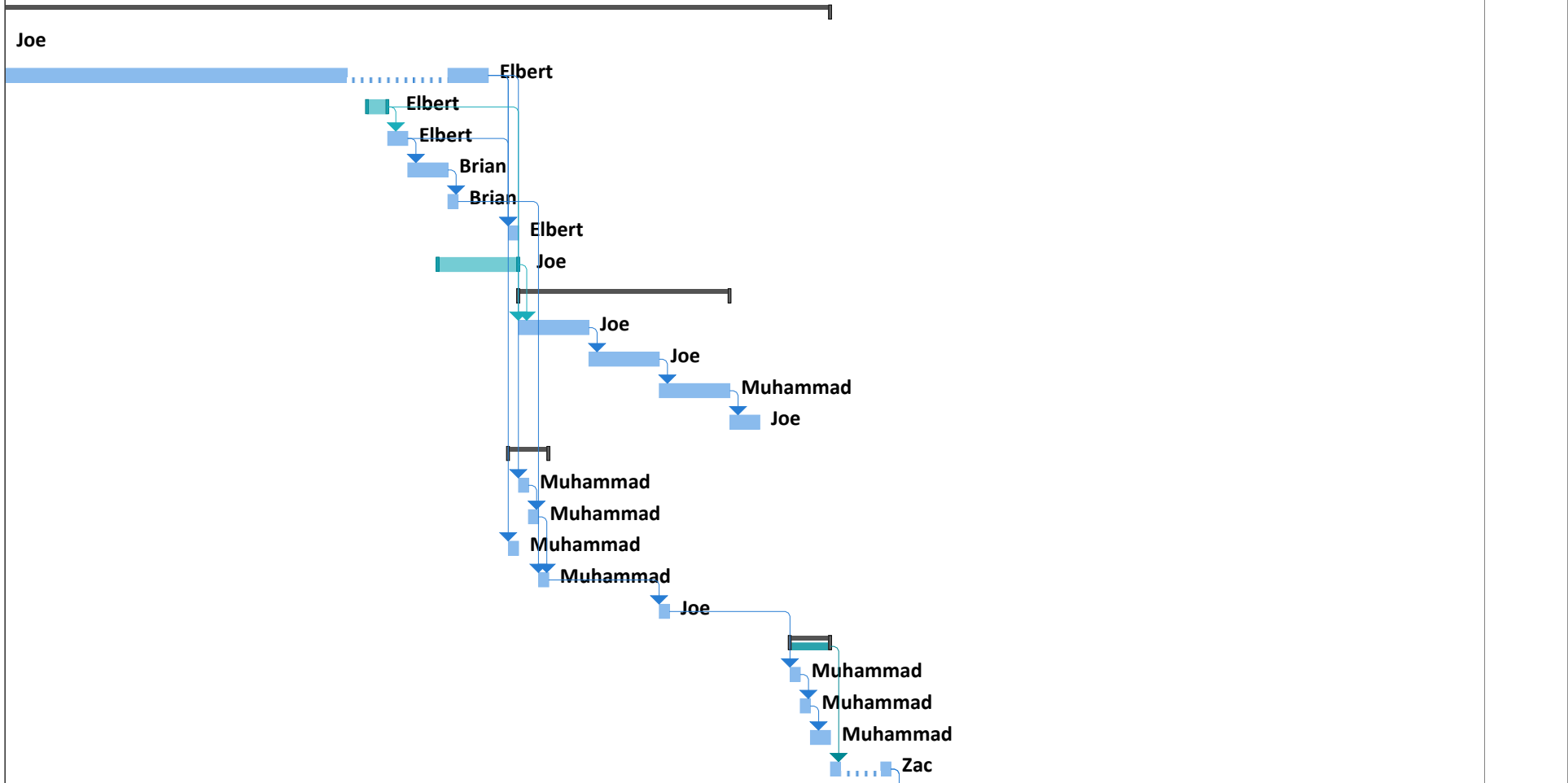
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51		Working Prototype	1 day	Wed 4/19/17	Wed 4/19/17	2 days	45	Muhammad			
52		White Paper/Documentation	4 days	Thu 4/20/17	Tue 4/25/17	8 days	51	Brian			
53		Imagine RIT	1 day	Thu 4/20/17	Thu 4/20/17	2 days	51				
54		<b>Final Review</b>	<b>9 days</b>	<b>Fri 4/21/17</b>	<b>Wed 5/3/17</b>	<b>2 days</b>	<b>53</b>				
55		Peer Review	1 day	Fri 4/21/17	Fri 4/21/17	10 days	53				
56		Lessons Learned	2 days	Fri 4/21/17	Mon 4/24/17	19 days	53	Joe			
57		MSD Recommendations	2 days	Fri 4/21/17	Mon 4/24/17	19 days	53				
58		Presentation Draft	4 days	Fri 4/21/17	Wed 4/26/17	12 days	53	Zac			
59		Practice Presentntation/Corrections	3 days	Thu 4/27/17	Mon 5/1/17	2 days	58	Zac			
60		Presentation	1 day	Tue 5/2/17	Tue 5/2/17	2 days	59				
61		Final Gate Review	1 day	Wed 5/3/17	Wed 5/3/17	2 days	60				
62		Completed EDGE Website	1 day	Wed 5/3/17	Wed 5/3/17	2 days	60	Joe			

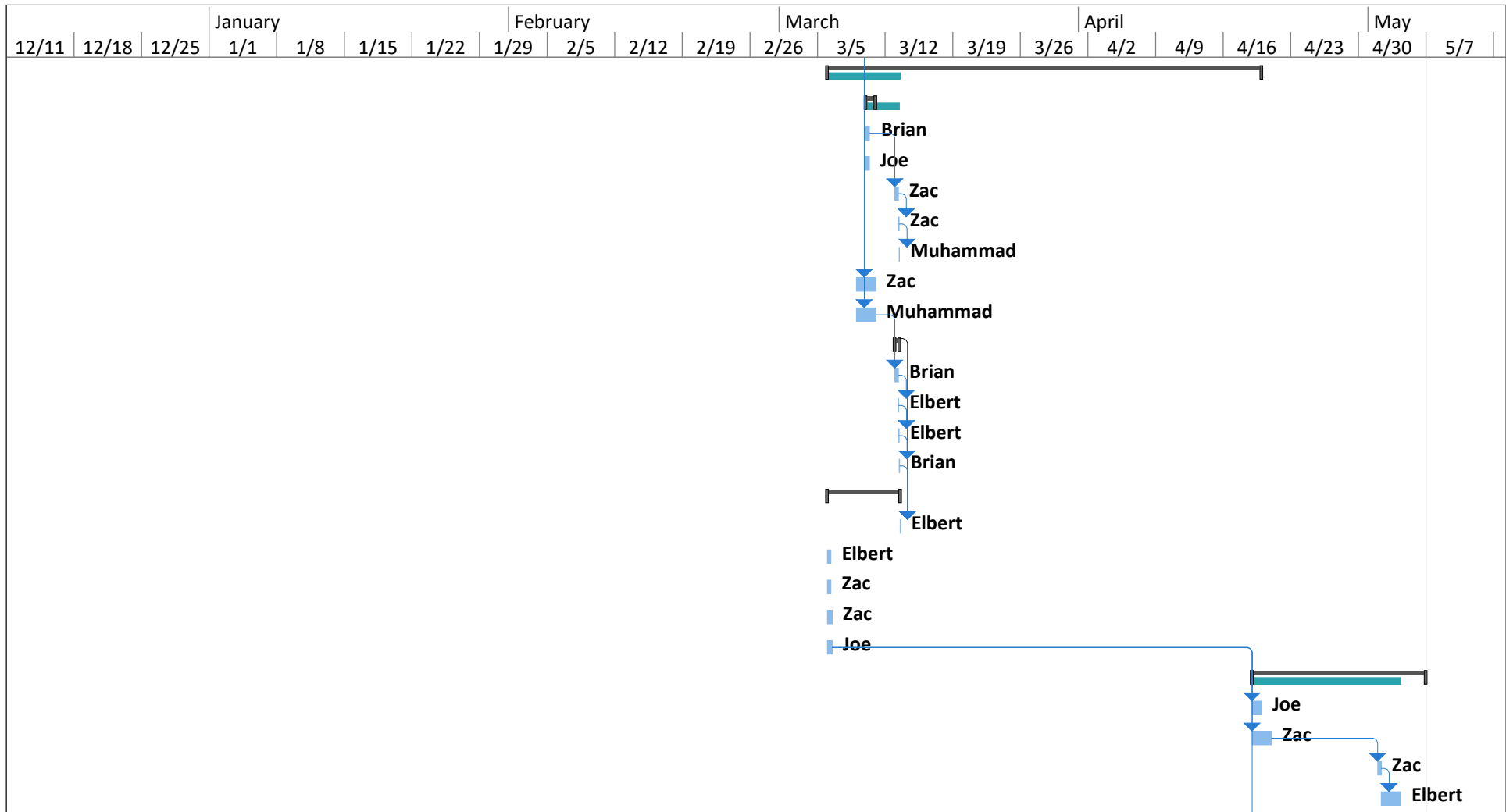
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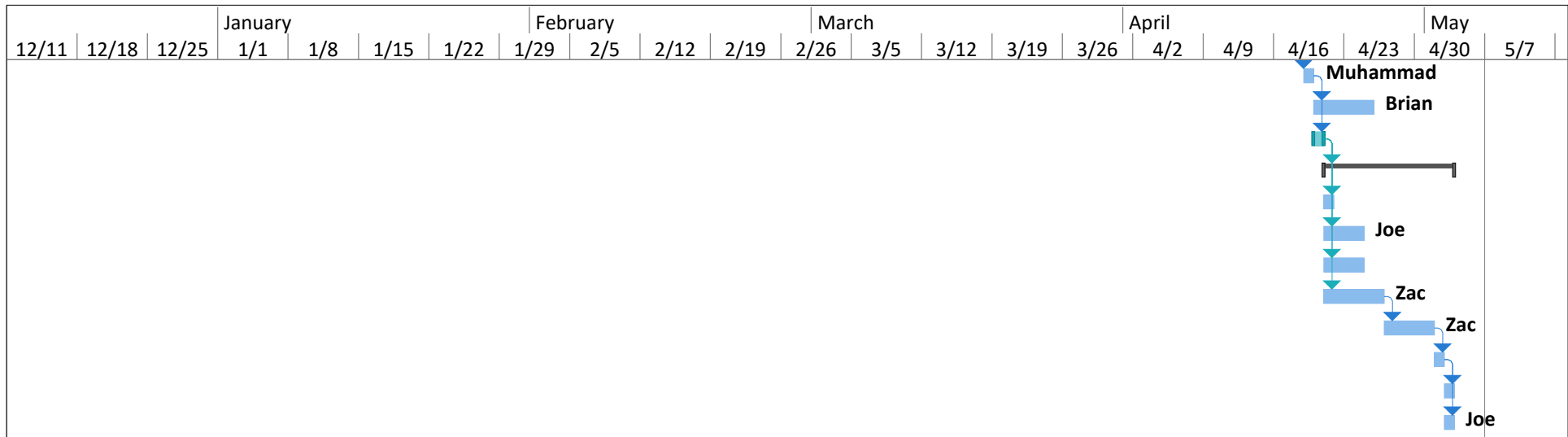
12/11	12/18	12/25	January				February				March				April				May		
			1/1	1/8	1/15	1/22	1/29	2/5	2/12	2/19	2/26	3/5	3/12	3/19	3/26	4/2	4/9	4/16	4/23	4/30	5/7



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