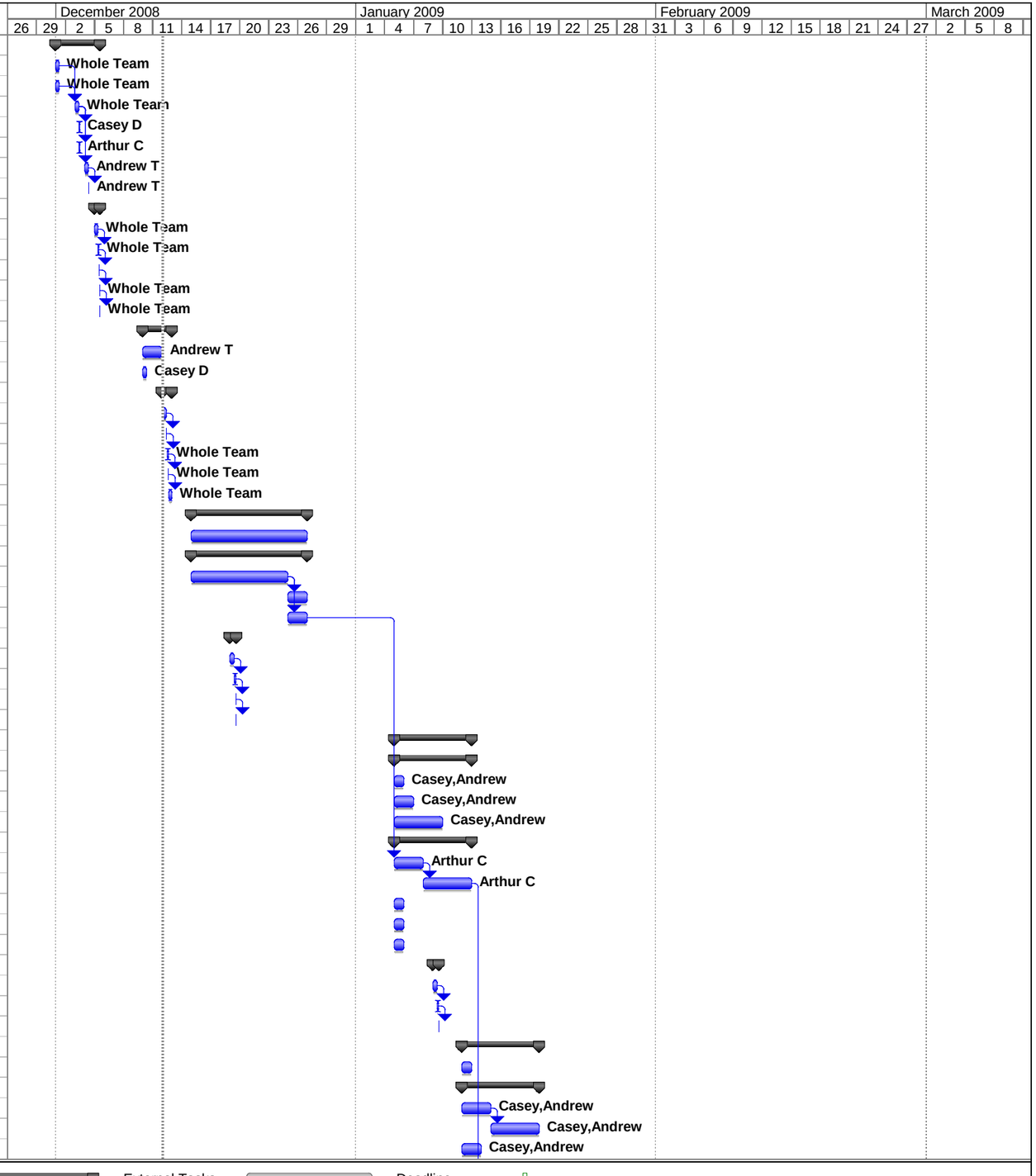
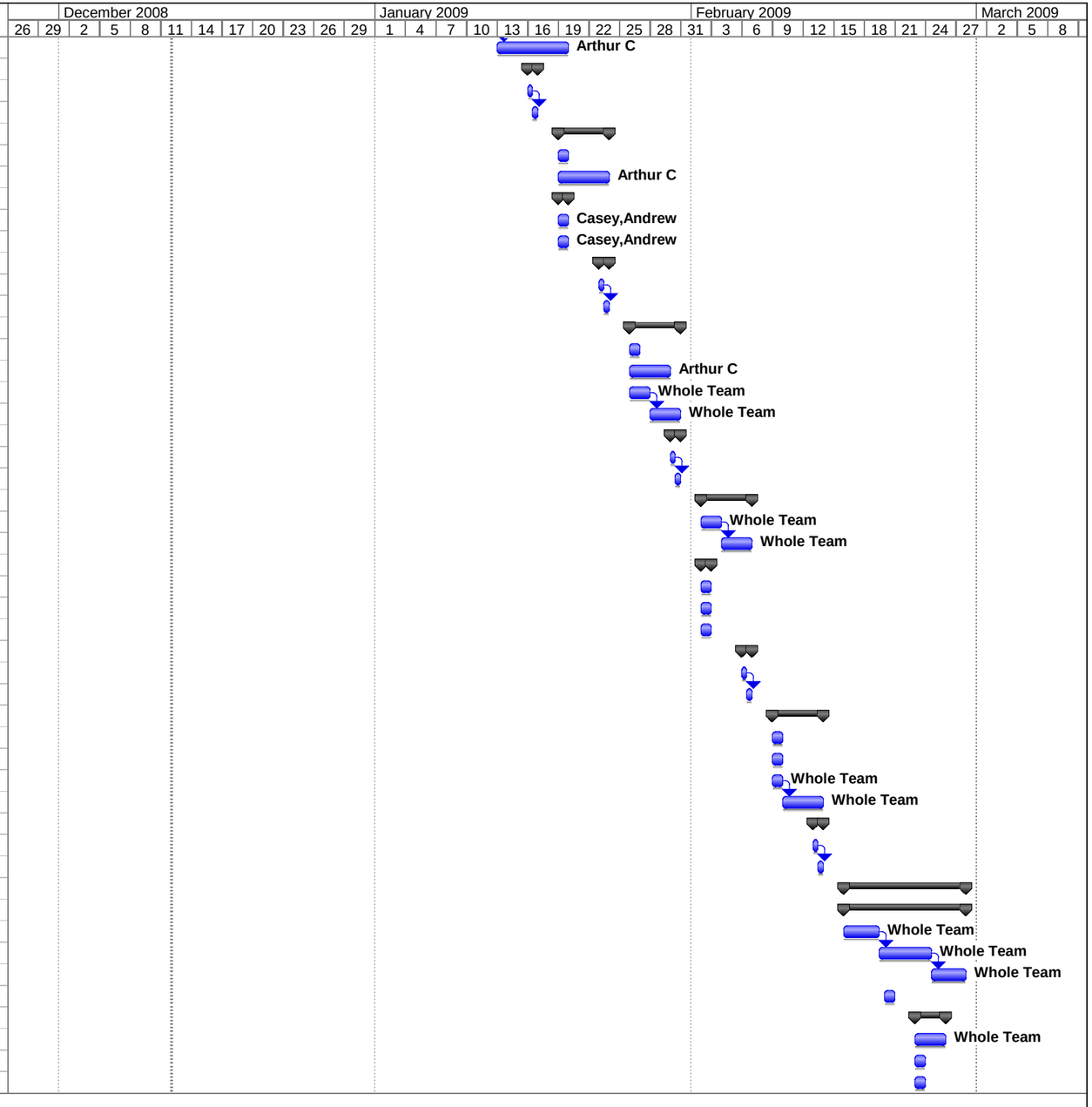
ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	**Week 1: Know the Customer & Your Team**	**4.63 days**	**Mon 12/1/08**	**Fri 12/5/08**		
2	Course Logistics	45 mins	Mon 12/1/08	Mon 12/1/08		Whole Team
3	Project Background	30 mins	Mon 12/1/08	Mon 12/1/08		Whole Team
4	Introductory Team Meeting: Project Planning	2 hrs	Wed 12/3/08	Wed 12/3/08	2,3	Whole Team
5	1 Page Project Summary	2 hrs	Wed 12/3/08	Wed 12/3/08	4	Casey D
6	Begin Research and Benchmarking	2 hrs	Wed 12/3/08	Wed 12/3/08	4	Arthur C
7	Assist with Research	1 hr	Thu 12/4/08	Thu 12/4/08	4	Andrew T
8	Create Schedule	1 hr	Thu 12/4/08	Thu 12/4/08	7	Andrew T
9	**Workshop 1 (12/5/08): Know the Customer**	**0.63 days**	**Fri 12/5/08**	**Fri 12/5/08**		
10	Course Intro; Project Overview Presenta	1 hr	Fri 12/5/08	Fri 12/5/08		Whole Team
11	Breakout Groups: Present Deliverables	2 hrs	Fri 12/5/08	Fri 12/5/08	10	Whole Team
12	Break	1 hr	Fri 12/5/08	Fri 12/5/08	11	
13	Create Day's Summary	30 mins	Fri 12/5/08	Fri 12/5/08	12	Whole Team
14	5-Minute Project Updates	30 mins	Fri 12/5/08	Fri 12/5/08	13	Whole Team
15	**Week 2**	**3 days**	**Wed 12/10/08**	**Fri 12/12/08**		
16	Update Customer needs and specs	2 days	Wed 12/10/08	Thu 12/11/08		Andrew T
17	WBS and Team roles	1.5 hrs	Wed 12/10/08	Wed 12/10/08		Casey D
18	**Workshop 2 (12/12/08):**	**1 day**	**Fri 12/12/08**	**Fri 12/12/08**		
19	Breakout Groups: Specs and Concept G	3 hrs	Fri 12/12/08	Fri 12/12/08		
20	Break	1 hr	Fri 12/12/08	Fri 12/12/08	19	
21	Start Concept Generation	3 hrs	Fri 12/12/08	Fri 12/12/08	20	Whole Team
22	Create Day's Summary	30 mins	Fri 12/12/08	Fri 12/12/08	21	Whole Team
23	5-Minute Project Updates	30 mins	Fri 12/12/08	Fri 12/12/08	22	Whole Team
24	**Week 3**	**10 days**	**Mon 12/15/08**	**Fri 12/26/08**		
25	Develop Concepts	10 days	Mon 12/15/08	Fri 12/26/08		
26	**Develop possible solutions to Control Sys**	**10 days**	**Mon 12/15/08**	**Fri 12/26/08**		
27	Concept development	8 days	Mon 12/15/08	Wed 12/24/08		
28	Reference Controls professor for help	2 days	Thu 12/25/08	Fri 12/26/08	27	
29	Potentially implement parts of previous g	2 days	Thu 12/25/08	Fri 12/26/08	27	
30	**Workshop 3:**	**0.88 days**	**Fri 12/19/08**	**Fri 12/19/08**		
31	Concept Selection	3 hrs	Fri 12/19/08	Fri 12/19/08		
32	Break/Continue Work	3 hrs	Fri 12/19/08	Fri 12/19/08	31	
33	Create Day's Summary	30 mins	Fri 12/19/08	Fri 12/19/08	32	
34	5-Minute Project Updates	30 mins	Fri 12/19/08	Fri 12/19/08	33	
35	**Week 4**	**6 days?**	**Mon 1/5/09**	**Mon 1/12/09**		
36	**Initial designs**	**6 days**	**Mon 1/5/09**	**Mon 1/12/09**		**Casey,Andrew**
37	Find air muscle components	1 day	Mon 1/5/09	Mon 1/5/09		Casey,Andrew
38	Find parts already available	2 days	Mon 1/5/09	Tue 1/6/09		Casey,Andrew
39	Sketches of developed concepts implem	5 days	Mon 1/5/09	Fri 1/9/09		Casey,Andrew
40	**Familiarization with LabView**	**6 days**	**Mon 1/5/09**	**Mon 1/12/09**		**Arthur C**
41	Receive Tutorial from Colleague (Al	3 days	Mon 1/5/09	Wed 1/7/09	29	Arthur C
42	Implement Sample Files	3 days	Thu 1/8/09	Mon 1/12/09	41	Arthur C
43	System level design	1 day?	Mon 1/5/09	Mon 1/5/09		
44	Engineering analysis	1 day?	Mon 1/5/09	Mon 1/5/09		
45	Risk analysis	1 day?	Mon 1/5/09	Mon 1/5/09		
46	**Workshop 4**	**0.75 days**	**Fri 1/9/09**	**Fri 1/9/09**		
47	Design progress reports	2.5 hrs	Fri 1/9/09	Fri 1/9/09		
48	Break/Continue Work	2.5 hrs	Fri 1/9/09	Fri 1/9/09	47	
49	Seminar on design reviews	1 hr	Fri 1/9/09	Fri 1/9/09	48	
50	**Week 5**	**6 days?**	**Mon 1/12/09**	**Mon 1/19/09**		
51	System level design review	1 day?	Mon 1/12/09	Mon 1/12/09		
52	**SolidWorks Model**	**6 days**	**Mon 1/12/09**	**Mon 1/19/09**		
53	Make each part	3 days	Mon 1/12/09	Wed 1/14/09		Casey,Andrew
54	Create part assemblies	3 days	Thu 1/15/09	Mon 1/19/09	53	Casey,Andrew
55	Import other team's parts	2 days	Mon 1/12/09	Tue 1/13/09		Casey,Andrew



Project: Project Schedule (Gantt Char
Date: Fri 12/12/08

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
56	Develop LabVIEW Model using Derived Cont	5 days	Tue 1/13/09	Mon 1/19/09	42	Arthur C
57	**Workshop 5**	**1 day**	**Fri 1/16/09**	**Fri 1/16/09**		
58	System level design reviews	3 hrs	Fri 1/16/09	Fri 1/16/09		
59	Continue Work	5 hrs	Fri 1/16/09	Fri 1/16/09	58	
60	**Week 6**	**5 days?**	**Mon 1/19/09**	**Fri 1/23/09**		
61	Detailed design progress report	1 day?	Mon 1/19/09	Mon 1/19/09		
62	Develop LabVIEW Model using Derived Cont	5 days	Mon 1/19/09	Fri 1/23/09		Arthur C
63	**High Fidelity Model**	**1 day?**	**Mon 1/19/09**	**Mon 1/19/09**		**Casey,Andrew**
64	Add material properties to the model	1 day?	Mon 1/19/09	Mon 1/19/09		Casey,Andrew
65	Add boundary conditions to the model	1 day?	Mon 1/19/09	Mon 1/19/09		Casey,Andrew
66	**Workshop 6**	**1 day**	**Fri 1/23/09**	**Fri 1/23/09**		
67	Detailed design progress reports	3 hrs	Fri 1/23/09	Fri 1/23/09		
68	Continue Work	5 hrs	Fri 1/23/09	Fri 1/23/09	67	
69	**Week 7**	**5 days?**	**Mon 1/26/09**	**Fri 1/30/09**		
70	Detailed design progress reports	1 day?	Mon 1/26/09	Mon 1/26/09		
71	Debug developed designs using LabVIEW	4 days	Mon 1/26/09	Thu 1/29/09		Arthur C
72	Learn to use Mechatronics Toolkit	2 days	Mon 1/26/09	Tue 1/27/09		Whole Team
73	Basic Implementation of Toolkit	3 days	Wed 1/28/09	Fri 1/30/09	72	Whole Team
74	**Workshop 7**	**1 day**	**Fri 1/30/09**	**Fri 1/30/09**		
75	detailed design progress reports	3 hrs	Fri 1/30/09	Fri 1/30/09		
76	Continue Work	5 hrs	Fri 1/30/09	Fri 1/30/09	75	
77	**Week 8**	**5 days?**	**Mon 2/2/09**	**Fri 2/6/09**		
78	Basic Implementation of Toolkit	2 days	Mon 2/2/09	Tue 2/3/09		Whole Team
79	Implement Toolkit for Wrist/Forearm/Elbow	3 days	Wed 2/4/09	Fri 2/6/09	78	Whole Team
80	**Presentation on readiness**	**1 day?**	**Mon 2/2/09**	**Mon 2/2/09**		
81	data package	1 day?	Mon 2/2/09	Mon 2/2/09		
82	gaps	1 day?	Mon 2/2/09	Mon 2/2/09		
83	Agenda and participant list	1 day?	Mon 2/2/09	Mon 2/2/09		
84	**Workshop 8**	**1 day**	**Fri 2/6/09**	**Fri 2/6/09**		
85	Presentation on readiness	3 hrs	Fri 2/6/09	Fri 2/6/09		
86	Continue Work	5 hrs	Fri 2/6/09	Fri 2/6/09	85	
87	**Week 9**	**5 days?**	**Mon 2/9/09**	**Fri 2/13/09**		
88	Detailed design review	1 day?	Mon 2/9/09	Mon 2/9/09		
89	Detailed design report	1 day?	Mon 2/9/09	Mon 2/9/09		
90	Implement Toolkit for Wrist/Forearm/Elbow	1 day	Mon 2/9/09	Mon 2/9/09		Whole Team
91	Implement Toolkit for Entire Arm	4 days	Tue 2/10/09	Fri 2/13/09	90	Whole Team
92	**Workshop 9**	**1 day**	**Fri 2/13/09**	**Fri 2/13/09**		
93	Detailed Design reviews	3 hrs	Fri 2/13/09	Fri 2/13/09		
94	Continue Work	5 hrs	Fri 2/13/09	Fri 2/13/09	93	
95	**Week 10**	**10 days**	**Mon 2/16/09**	**Fri 2/27/09**		
96	**Start testing Basic Functions**	**10 days**	**Mon 2/16/09**	**Fri 2/27/09**		**Whole Team**
97	Wrist	3.4 days	Mon 2/16/09	Thu 2/19/09		Whole Team
98	Forearm	3.3 days	Thu 2/19/09	Tue 2/24/09	97	Whole Team
99	Elbow	3.3 days	Tue 2/24/09	Fri 2/27/09	98	Whole Team
100	Workshop 10	1 day	Fri 2/20/09	Fri 2/20/09		
101	**Week11**	**3 days?**	**Mon 2/23/09**	**Wed 2/25/09**		
102	Start testing for accuracy to Human Motion	3 days	Mon 2/23/09	Wed 2/25/09		Whole Team
103	Final design specs for Cad model	1 day?	Mon 2/23/09	Mon 2/23/09		
104	Final specs for controls	1 day?	Mon 2/23/09	Mon 2/23/09		



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