

9. Project Schedules

	Task Name	Duration	Start	Finish	Prede	Resource Names
1	- Senior Design - Design Phase	96 days	Fri 8/29/08	Wed 12/3/08		
2	Abstract	14 days	Fri 8/29/08	Fri 9/12/08		
3	- Block Diagrams (hardware & software)	13 days	Fri 8/29/08	Thu 9/11/08		
4	- Block Diagrams Pass 2 w/module tables	6 days	Fri 8/29/08	Thu 9/4/08		
5	Hardware modules (identify designer)	6 days	Fri 8/29/08	Thu 9/4/08		
6	Software modules (identify designer)	6 days	Fri 8/29/08	Thu 9/4/08		
7	- Block Diagrams Pass 3 w/module tables	7 days	Thu 9/4/08	Thu 9/11/08	6	
8	Hardware modules (identify designer)	7 days	Thu 9/4/08	Thu 9/11/08		
9	Software modules (identify designer)	7 days	Thu 9/4/08	Thu 9/11/08		
10	Design Specifications	14 days	Fri 8/29/08	Fri 9/12/08		
11	+ Alternative Design Analysis	35.38 days	Fri 8/29/08	Fri 10/3/08		
35	- Progress Reports	56 days	Fri 10/3/08	Fri 11/28/08		
36	Report #1	7 days	Fri 10/3/08	Fri 10/10/08	34	
37	Report #2	7 days	Fri 10/10/08	Fri 10/17/08	36	
38	Report #3	7 days	Fri 10/17/08	Fri 10/24/08	37	
39	Report #4	7 days	Fri 10/24/08	Fri 10/31/08	38	
40	Report #5	7 days	Fri 10/31/08	Fri 11/7/08	39	
41	Report #6	7 days	Fri 11/7/08	Fri 11/14/08	40	
42	Report #7	7 days	Fri 11/14/08	Fri 11/21/08	41	
43	Report #8	7 days	Fri 11/21/08	Fri 11/28/08	42	
44	- Accepted Project Design	58.63 days	Fri 10/3/08	Mon 12/1/08	34	
45	- Software Design	10.38 days	Wed 11/12/08	Sat 11/22/08		
46	- Modules 1...n	10.38 days	Wed 11/12/08	Sat 11/22/08		
47	- Pseudo Code	10.38 days	Wed 11/12/08	Sat 11/22/08		
48	RSS Module	4.38 days	Fri 11/14/08	Tue 11/18/08		Dan Kephart
49	Power Control Module	2.38 days	Wed 11/12/08	Fri 11/14/08		Dan Kephart
50	Decision Module	4.38 days	Fri 11/14/08	Tue 11/18/08		Tom Bresson
51	Web Application	5.38 days	Fri 11/14/08	Wed 11/19/08		Tom Bresson
52	Configuration Module	7.38 days	Fri 11/14/08	Fri 11/21/08		Ben Radey
53	Image/Motion Processing	7.38 days	Fri 11/14/08	Fri 11/21/08		Ben Radey
54	XML Module	4.38 days	Tue 11/18/08	Sat 11/22/08		Dan Kephart
55	- Hardware Design	58.63 days	Fri 10/3/08	Mon 12/1/08		
56	- Modules 1...n	42 days	Mon 10/20/08	Mon 12/1/08		
57	Simulations	6 days	Sun 11/23/08	Sat 11/29/08		
58	- Schematics	42 days	Mon 10/20/08	Mon 12/1/08		
59	UART to USB Schematic	9 days	Wed 11/12/08	Fri 11/21/08		Ben Radey
60	- Power Distribution Hardware	37.38 days	Mon 10/20/08	Wed 11/26/08		Dan Kephart
61	Spec Battery	4 days	Mon 10/20/08	Fri 10/24/08		Dan Kephart
62	Spec Solar Panel	4 days	Mon 10/20/08	Fri 10/24/08		Dan Kephart
63	Spec Charge Controller	4 days	Mon 11/3/08	Fri 11/7/08		Dan Kephart
64	Spec AC/DC Converter	4 days	Mon 11/17/08	Fri 11/21/08		Dan Kephart
65	DC-DC Converter Schematic	11 days	Sat 11/15/08	Wed 11/26/08		Dan Kephart
66	Power Switching Schematic	11 days	Sat 11/15/08	Wed 11/26/08		Dan Kephart
67	- Redesign PCB for PeggyBoard 2.0	21 days	Mon 11/10/08	Mon 12/1/08		
68	Find Replacement Transistor	1.38 days	Mon 11/10/08	Tue 11/11/08		Ben Radey
69	Check Resistor Values	1 day	Tue 11/11/08	Wed 11/12/08		

Figure 25: Design Gantt Chart (1 of 2)

70	Check Traces for Current Handling	19 days	Wed 11/12/08	Mon 12/1/08	69	Tom Bresson
71	Redraw PCB	6.38 days	Thu 11/13/08	Wed 11/19/08		Tom Bresson
72	- Parts Request Form	56 days	Fri 10/3/08	Fri 11/28/08		
73	Solar Panel	3 days	Sun 11/9/08	Wed 11/12/08		Dan Kephart
74	Charge Controller	3 days	Wed 11/12/08	Sat 11/15/08		Dan Kephart
75	Battery	1 day	Fri 10/3/08	Sat 10/4/08		
76	Embedded System	4 days	Sat 11/15/08	Wed 11/19/08		Tom Bresson
77	- PeggyBoard PCB	9 days	Wed 11/19/08	Fri 11/28/08		
78	Finalize LED Selection	9 days	Wed 11/19/08	Fri 11/28/08		Ben Radey
79	- Budget (Estimated)	12.38 days	Sun 11/16/08	Fri 11/28/08		
80	- Hardware	6.38 days	Sun 11/16/08	Sat 11/22/08		
81	LEDs	6 days	Sun 11/16/08	Sat 11/22/08		Ben Radey
82	Embedded System	6 days	Sun 11/16/08	Sat 11/22/08		Tom Bresson
83	Solar	6 days	Sun 11/16/08	Sat 11/22/08		Dan Kephart
84	Batteries	6 days	Sun 11/16/08	Sat 11/22/08		Dan Kephart
85	Charge Controller	6 days	Sun 11/16/08	Sat 11/22/08		Dan Kephart
86	Software	7 days	Fri 11/21/08	Fri 11/28/08		
87	- Testing Procedures	56 days	Fri 10/3/08	Fri 11/28/08		
88	Formating Requirements	1 day	Fri 11/7/08	Sat 11/8/08		
89	- Hardware Procedures	8 days	Fri 10/3/08	Sat 10/11/08		
90	- Modules 1...n	8 days	Fri 10/3/08	Sat 10/11/08		
91	LEDs	6 days	Fri 10/3/08	Thu 10/9/08		
92	Embedded System	6 days	Fri 10/3/08	Thu 10/9/08		
93	Solar	8 days	Fri 10/3/08	Sat 10/11/08		
94	Batteries	5 days	Fri 10/3/08	Wed 10/8/08		
95	Charge Controller	6 days	Fri 10/3/08	Thu 10/9/08		
96	- Software Procedures	7 days	Sat 11/8/08	Sat 11/15/08		
97	Modules 1...n	7 days	Sat 11/8/08	Sat 11/15/08		
98	Link Requirements to Test Cases	13 days	Sat 11/15/08	Fri 11/28/08		
99	- Donations	90.38 days	Mon 9/1/08	Sun 11/30/08		Dan Kephart
100	Write Donations Cover Letter	29 days	Mon 9/1/08	Tue 9/30/08		
101	Create Donations Packet	30 days	Wed 10/1/08	Fri 10/31/08	100	
102	Find Prospective Donors	30 days	Wed 10/1/08	Fri 10/31/08		
103	Send Donor Packets Out	29 days	Sat 11/1/08	Sun 11/30/08	102	
104	- Design Gantt Chart	2 days	Fri 10/10/08	Sun 10/12/08	36	
105	Improve Design Gantt Chart	1 day	Fri 10/10/08	Sat 10/11/08		
106	Resubmit Gantt Chart	1 day	Sat 10/11/08	Sun 10/12/08	105	
107	Project Poster	7 days	Sun 10/12/08	Sun 10/19/08	106	
108	- Implementation Gantt Chart	1 day	Sun 10/19/08	Mon 10/20/08	107	
109	Assign Modules to Members	1 day	Sun 10/19/08	Mon 10/20/08		
110	- Final Design Report	8 days	Sun 11/16/08	Mon 11/24/08		
111	Draw Mechanical Drawings	7 days	Sun 11/16/08	Sun 11/23/08		Tom Bresson
112	- Finish Up Report	1 day	Sun 11/23/08	Mon 11/24/08	111	
113	Clean Up Specs	1 day	Sun 11/23/08	Mon 11/24/08		
114	Add Pseudo Code	1 day	Sun 11/23/08	Mon 11/24/08		
115	Insert Final Block Diagram	1 day	Sun 11/23/08	Mon 11/24/08		
116	Final Design Presentation	9 days	Mon 11/24/08	Wed 12/3/08	112	

Figure 26: Design Gantt Chart (2 of 2)