

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	J Light Badge Tracker	28.9 days	Mon 11/3/08	Thu 12/11/08		
2	Customer Specification	3.63 days	Mon 11/3/08	Thu 11/6/08		
3	Customer Interaction	10 hrs	Mon 11/3/08	Tue 11/4/08		Ning Zhang,Qianting Zeng (Cindy)
4	Review Location	3 hrs	Tue 11/4/08	Tue 11/4/08	3	Aaron Bahr,Rohit Valecha
5	Develop Top-Level Design	6 hrs	Tue 11/4/08	Tue 11/4/08	3	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
6	Determine Feasibility	6 hrs	Tue 11/4/08	Wed 11/5/08	3,4	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
7	Verify Hardware Suitability	3 hrs	Wed 11/5/08	Wed 11/5/08	3,4	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
8	Review Initial Plans with Customer	10 hrs	Wed 11/5/08	Thu 11/6/08	3,4,5,6	Ning Zhang,Qianting Zeng (Cindy)
9						
10	Initial Design	5.81 days	Mon 11/3/08	Mon 11/10/08		
11	Top Level Design - Integration Thread	3 hrs	Thu 11/6/08	Thu 11/6/08	8	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
12	2nd Level Design: Sensor Controller	3 hrs	Fri 11/7/08	Fri 11/7/08	11,8	Aaron Bahr,Rohit Valecha
13	2nd Level Design: Database Controller	3 hrs	Fri 11/7/08	Fri 11/7/08	11,8	Adam Bettencourt,Yee Wa Wu (Amy)
14	2nd Level Design: Interface Controller	1.5 hrs	Fri 11/7/08	Fri 11/7/08	11,8	Qianting Zeng (Cindy),Ning Zhang
15	Cross-Reference Listing	6 hrs	Mon 11/10/08	Mon 11/10/08	12,13,14,8,5	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
16	Change Request Form	1 hr	Mon 11/3/08	Mon 11/3/08		Adam Bettencourt
17						
18	Customer Estimate	2.13 days	Fri 11/7/08	Tue 11/11/08		
19	Labor Costs and Estimate	8 hrs	Fri 11/7/08	Mon 11/10/08	11,8	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
20	Hardware Specification and Estimate	3 hrs	Mon 11/10/08	Tue 11/11/08	8,10	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
21	Scheduling	3 hrs	Mon 11/10/08	Mon 11/10/08	14	Adam Bettencourt,Yee Wa Wu (Amy)
22						
23	Module Design and Implementation	17.46 days	Fri 11/7/08	Tue 12/2/08		
24	Integration Thread	13.38 days	Fri 11/7/08	Wed 11/26/08		
25	Database	6.5 days	Mon 11/10/08	Wed 11/19/08		
26	Determine Requirements	1.5 hrs	Mon 11/10/08	Tue 11/11/08	13	Adam Bettencourt,Yee Wa Wu (Amy)
27	Plan Tests	2 hrs	Tue 11/11/08	Tue 11/11/08	26	Adam Bettencourt,Yee Wa Wu (Amy)
28	Install Necessary Databases	1 hr	Mon 11/10/08	Tue 11/11/08	10	Yee Wa Wu (Amy)
29	Design and Code	7.5 hrs	Tue 11/11/08	Wed 11/12/08	27	Adam Bettencourt,Yee Wa Wu (Amy)
30	Test and Review	5.5 hrs	Tue 11/18/08	Wed 11/19/08	29	Adam Bettencourt,Yee Wa Wu (Amy)
31	Database Controller	7.31 days	Tue 11/11/08	Thu 11/20/08		
32	Design	3.5 hrs	Tue 11/11/08	Tue 11/11/08	13	Adam Bettencourt,Yee Wa Wu (Amy)
33	Plan Tests	2 hrs	Tue 11/11/08	Wed 11/12/08	32	Adam Bettencourt,Yee Wa Wu (Amy)
34	Code	6.5 hrs	Tue 11/18/08	Tue 11/18/08	33	Adam Bettencourt,Yee Wa Wu (Amy)
35	Test and Review	5.5 hrs	Wed 11/19/08	Thu 11/20/08	34	Adam Bettencourt,Yee Wa Wu (Amy)
36	Sensor Controller	6.13 days	Mon 11/10/08	Tue 11/18/08		
37	Design	1.25 days	Mon 11/10/08	Tue 11/11/08		
38	Sensor Module Design	3 hrs	Mon 11/10/08	Mon 11/10/08	12	Aaron Bahr,Rohit Valecha
39	Hardware Integration	4 hrs	Mon 11/10/08	Tue 11/11/08	38	Aaron Bahr,Rohit Valecha
40	Plan Tests	2 hrs	Tue 11/11/08	Tue 11/11/08	39	Aaron Bahr,Rohit Valecha
41	Code	4 hrs	Wed 11/12/08	Wed 11/12/08	40	Aaron Bahr,Rohit Valecha
42	Test and Review	3.5 hrs	Tue 11/18/08	Tue 11/18/08	41	Aaron Bahr,Rohit Valecha
43	Interface Controller	3.13 days	Fri 11/7/08	Wed 11/12/08		

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44	Design	6 hrs	Fri 11/7/08	Mon 11/10/08	14	Ning Zhang,Qianting Zeng (Cindy)
45	Plan Tests	2 hrs	Mon 11/10/08	Tue 11/11/08	44	Ning Zhang,Qianting Zeng (Cindy)
46	Code	4 hrs	Tue 11/11/08	Tue 11/11/08	45	Ning Zhang,Qianting Zeng (Cindy)
47	Test and Review	3 hrs	Tue 11/11/08	Wed 11/12/08	46	Ning Zhang,Qianting Zeng (Cindy)
48	Interface (Generic)	3.13 days	Fri 11/7/08	Wed 11/12/08		
49	Design	1.38 days	Fri 11/7/08	Tue 11/11/08		
50	Determine Styles	2 hrs	Fri 11/7/08	Mon 11/10/08	8	Ning Zhang,Qianting Zeng (Cindy)
51	Determine Layout	2 hrs	Fri 11/7/08	Mon 11/10/08	8	Ning Zhang,Qianting Zeng (Cindy)
52	Draw Template	2 hrs	Mon 11/10/08	Tue 11/11/08	8	Ning Zhang,Qianting Zeng (Cindy)
53	Code	3 hrs	Wed 11/12/08	Wed 11/12/08	47,50,51,52	Ning Zhang,Qianting Zeng (Cindy)
54	Review	2 hrs	Wed 11/12/08	Wed 11/12/08	53	Ning Zhang,Qianting Zeng (Cindy)
55	Interface (Admin Page)	4.75 days	Mon 11/10/08	Mon 11/17/08		
56	Design	2.25 days	Mon 11/10/08	Thu 11/13/08		
57	Determine Necessary	3 hrs	Mon 11/10/08	Tue 11/11/08	14	Ning Zhang[50%],Qianting Zeng (Cindy)[50%]
58	Design Administrator	2 hrs	Wed 11/12/08	Thu 11/13/08	54,57	Ning Zhang,Qianting Zeng (Cindy)
59	Plan Tests	1 hr	Thu 11/13/08	Thu 11/13/08	58	Ning Zhang,Qianting Zeng (Cindy)
60	Code	8 hrs	Thu 11/13/08	Fri 11/14/08	59	Ning Zhang,Qianting Zeng (Cindy)
61	Test and Review	6 hrs	Fri 11/14/08	Mon 11/17/08	60	Ning Zhang,Qianting Zeng (Cindy)
62	Integrate	18 hrs	Thu 11/20/08	Mon 11/24/08	25,31,36,43,48,	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
63	Test/Debug	16 hrs	Mon 11/24/08	Wed 11/26/08	62	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
64						
65	Full System Design and Implem	15.53 days	Tue 11/11/08	Tue 12/2/08		
66	Additional Databases	7.84 days	Thu 11/20/08	Tue 12/2/08		
67	Design	6 hrs	Thu 11/20/08	Mon 11/24/08	25,31	Adam Bettencourt,Yee Wa Wu (Amy)
68	Plan Tests	1 hr	Mon 11/24/08	Mon 11/24/08	67	Adam Bettencourt,Yee Wa Wu (Amy)
69	Code	10 hrs	Mon 11/24/08	Tue 11/25/08	68	Adam Bettencourt,Yee Wa Wu (Amy)
70	Integrate with Existing Dat	12.5 hrs	Wed 11/26/08	Thu 11/27/08	69	Adam Bettencourt,Yee Wa Wu (Amy)
71	Test and Review	6.5 hrs	Mon 12/1/08	Tue 12/2/08	70	Adam Bettencourt,Yee Wa Wu (Amy)
72	Zigbee Network	11.19 days	Tue 11/11/08	Wed 11/26/08		
73	Research Existing Functio	4.5 hrs	Tue 11/18/08	Tue 11/18/08	43	Aaron Bahr,Rohit Valecha
74	Plan Tests	2 hrs	Wed 11/19/08	Wed 11/19/08	73	Aaron Bahr,Rohit Valecha
75	Design Badges	4 hrs	Tue 11/11/08	Tue 11/11/08	38	Aaron Bahr,Rohit Valecha
76	Integrate with Sensor Cont	15.5 hrs	Wed 11/19/08	Mon 11/24/08	74,75	Aaron Bahr,Rohit Valecha
77	Test and Review	4.5 hrs	Tue 11/25/08	Wed 11/26/08	76	Aaron Bahr,Rohit Valecha
78	Additional Interfaces	7.13 days	Thu 11/13/08	Mon 11/24/08		
79	Interface (Teacher Page)	5 days	Thu 11/13/08	Thu 11/20/08		
80	Design	2 days	Thu 11/13/08	Mon 11/17/08		
81	Determine Neces	4 hrs	Thu 11/13/08	Fri 11/14/08	48	Ning Zhang,Qianting Zeng (Cindy)
82	Design Page	6 hrs	Fri 11/14/08	Mon 11/17/08	81	Ning Zhang,Qianting Zeng (Cindy)
83	Plan Tests	2 hrs	Tue 11/18/08	Tue 11/18/08	82	Ning Zhang,Qianting Zeng (Cindy)
84	Code	5 hrs	Tue 11/18/08	Wed 11/19/08	83	Ning Zhang,Qianting Zeng (Cindy)
85	Test and Review	6 hrs	Wed 11/19/08	Thu 11/20/08	84	Ning Zhang,Qianting Zeng (Cindy)
86	Interface (Staff Page)	6.5 days	Thu 11/13/08	Mon 11/24/08		

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87	Design	2.13 days	Thu 11/13/08	Mon 11/17/08		
88	Determine Necess	4 hrs	Thu 11/13/08	Fri 11/14/08	48	Ning Zhang,Qianting Zeng (Cindy)
89	Design Page	6 hrs	Fri 11/14/08	Mon 11/17/08	88	Ning Zhang,Qianting Zeng (Cindy)
90	Plan Tests	2 hrs	Tue 11/18/08	Tue 11/18/08	89	Ning Zhang,Qianting Zeng (Cindy)
91	Code	5 hrs	Tue 11/18/08	Wed 11/19/08	90	Ning Zhang,Qianting Zeng (Cindy)
92	Test and Review	4 hrs	Fri 11/21/08	Mon 11/24/08	91	Ning Zhang,Qianting Zeng (Cindy)
93	Interface (Security Page)	6.63 days	Thu 11/13/08	Mon 11/24/08		
94	Design	2.25 days	Thu 11/13/08	Tue 11/18/08		
95	Determine Necess	4 hrs	Thu 11/13/08	Fri 11/14/08	48	Ning Zhang,Qianting Zeng (Cindy)
96	Design Page	3 hrs	Mon 11/17/08	Tue 11/18/08	95	Ning Zhang,Qianting Zeng (Cindy)
97	Plan Tests	2 hrs	Tue 11/18/08	Tue 11/18/08	96	Ning Zhang,Qianting Zeng (Cindy)
98	Code	8 hrs	Wed 11/19/08	Thu 11/20/08	97	Ning Zhang,Qianting Zeng (Cindy)
99	Test and Review	4 hrs	Fri 11/21/08	Mon 11/24/08	98	Ning Zhang,Qianting Zeng (Cindy)
100						
101	Documentation and Training	3.06 days	Tue 12/2/08	Fri 12/5/08		
102	Documentation	3.06 days	Tue 12/2/08	Fri 12/5/08		
103	Create Full Technical Manual	17 hrs	Tue 12/2/08	Thu 12/4/08	65	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
104	Create Tutorial/User Manual	9.7 hrs	Tue 12/2/08	Fri 12/5/08	65	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
105	Review Manuals/Tutorial	4 hrs	Fri 12/5/08	Fri 12/5/08	103,104	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
106	Training	2.25 days	Tue 12/2/08	Thu 12/4/08		
107	Design Training Course	7 hrs	Tue 12/2/08	Wed 12/3/08	65	Yee Wa Wu (Amy),Adam Bettencourt,Ning Zhang
108	Schedule Training Sessions	2 hrs	Wed 12/3/08	Wed 12/3/08	107	Aaron Bahr
109	Train End Users	5.3 hrs	Wed 12/3/08	Thu 12/4/08	108	Aaron Bahr,Rohit Valecha,Qianting Zeng (Cindy)
110	Determine Customer Readines	2 hrs	Thu 12/4/08	Thu 12/4/08	109	Aaron Bahr,Rohit Valecha,Qianting Zeng (Cindy)
111						
112	Marketing and Presentation	3.59 days	Wed 11/26/08	Tue 12/2/08		
113	Marketing	3.59 days	Wed 11/26/08	Tue 12/2/08		
114	Create Brochure	4 hrs	Wed 11/26/08	Thu 11/27/08	24	Ning Zhang,Qianting Zeng (Cindy)
115	Develop Other Advertisements	16.7 hrs	Fri 11/28/08	Tue 12/2/08	24	Yee Wa Wu (Amy),Adam Bettencourt,Ning Zhang
116	Create Demonstration(s)/Simulation	18 hrs	Wed 11/26/08	Fri 11/28/08	24	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee Wu
117						
118	Installation and Product Delivery	19.4 days	Tue 11/11/08	Mon 12/8/08		
119	Hardware	19.4 days	Tue 11/11/08	Mon 12/8/08		
120	ZigBee Network	11.19 days	Tue 11/11/08	Wed 11/26/08		
121	Obtain Routers	2 hrs	Wed 11/26/08	Wed 11/26/08	7,10,18	Aaron Bahr
122	Obtain Badges	2 hrs	Tue 11/11/08	Tue 11/11/08	7,10,18	Aaron Bahr
123	Install Routers	34 hrs	Tue 11/11/08	Tue 11/18/08	122	Aaron Bahr,Adam Bettencourt,Rohit Valecha,Yee Wa Wu (Amy)
124	Test Installation	8 hrs	Tue 11/18/08	Wed 11/19/08	123	Aaron Bahr,Adam Bettencourt,Rohit Valecha,Yee Wa Wu (Amy)
125	Perform Any Necessary Co	6.5 hrs	Wed 11/19/08	Fri 11/21/08	124	Aaron Bahr,Adam Bettencourt,Rohit Valecha,Yee Wa Wu (Amy)
126	Revise As Necessary	7.5 hrs	Mon 11/24/08	Tue 11/25/08	125	Aaron Bahr,Adam Bettencourt,Rohit Valecha,Yee Wa Wu (Amy)
127	Server(s)	12.46 days	Thu 11/20/08	Mon 12/8/08		
128	Determine Necessary Serv	4 hrs	Thu 11/20/08	Thu 11/20/08	7,10,18	Adam Bettencourt,Yee Wa Wu (Amy)
129	Obtain Servers	4 hrs	Mon 11/24/08	Wed 11/26/08	128	Adam Bettencourt,Yee Wa Wu (Amy)

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
130	Install Server Software	2 hrs	Tue 12/2/08	Tue 12/2/08	24,129	Adam Bettencourt
131	Install Servers On Site	4 hrs	Tue 12/2/08	Fri 12/5/08	130	Adam Bettencourt,Yee Wa Wu (Amy)
132	Connect and Integrate Ser	5 hrs	Fri 12/5/08	Mon 12/8/08	131	Adam Bettencourt,Yee Wa Wu (Amy)
133	Test Installation	3 hrs	Mon 12/8/08	Mon 12/8/08	132	Adam Bettencourt,Yee Wa Wu (Amy)
134	Revise As Necessary	2 hrs	Mon 12/8/08	Mon 12/8/08	133	Adam Bettencourt,Yee Wa Wu (Amy)
135	Software	6.78 days	Mon 11/24/08	Tue 12/2/08		
136	ZigBee Network	1.81 days	Mon 11/24/08	Tue 11/25/08		
137	Install ZigBee Protocol on	1.5 hrs	Mon 11/24/08	Mon 11/24/08	82	Aaron Bahr,Rohit Valecha
138	Set up Badges	4 hrs	Mon 11/24/08	Tue 11/25/08	83,137	Aaron Bahr,Rohit Valecha
139	Create Hard Copy of Server So	1 hr	Tue 12/2/08	Tue 12/2/08	23	Qianting Zeng (Cindy)
140						
141	Final Testing	3.19 days	Mon 12/8/08	Thu 12/11/08		
142	System	2.94 days	Mon 12/8/08	Thu 12/11/08		
143	Test Hardware	8.8 hrs	Mon 12/8/08	Thu 12/11/08	119,136	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee W
144	Test Web Interface	4 hrs	Mon 12/8/08	Thu 12/11/08	118	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee W
145	Verify Performance Standards	15 hrs	Mon 12/8/08	Wed 12/10/08	118	Aaron Bahr,Adam Bettencourt,Ning Zhang,Qianting Zeng (Cindy),Rohit Valecha,Yee W
146	Customers	0.25 days	Thu 12/11/08	Thu 12/11/08		
147	Verify Ease of Use	2 hrs	Thu 12/11/08	Thu 12/11/08	101,142	Qianting Zeng (Cindy),Ning Zhang,Rohit Valecha