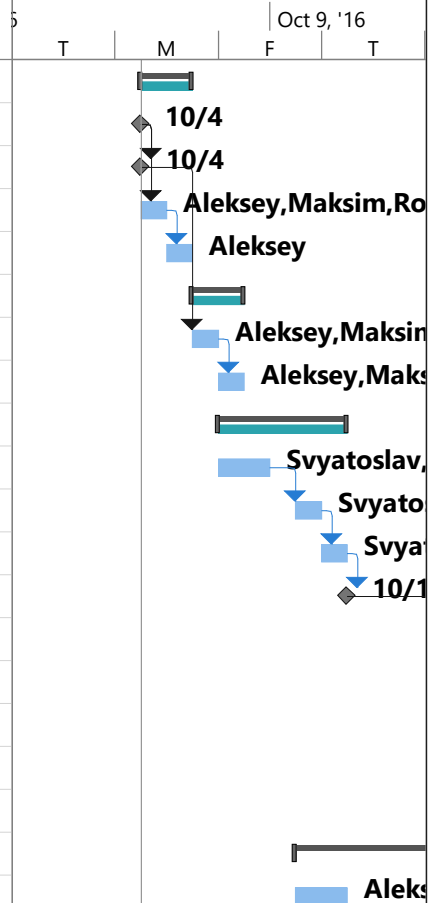





















ID	Task Name	Duration	Start	Finish	5	T	M	F	T	Oct 9, '16
1	<b>Establish Team</b>	<b>2 days</b>	<b>Tue 10/4/16</b>	<b>Wed 10/5/16</b>						
2	Select Team Members	0 days	Tue 10/4/16	Tue 10/4/16						
3	Schedule Regular Meeting Times	0 days	Tue 10/4/16	Tue 10/4/16						
4	Meet with Team (1st Meeting)	1 day	Tue 10/4/16	Tue 10/4/16						
5	Setup Communication Tools	1 day	Wed 10/5/16	Wed 10/5/16						
6	<b>Select Project</b>	<b>2 days</b>	<b>Thu 10/6/16</b>	<b>Fri 10/7/16</b>						
7	Meet with Team to Brainstorm Ideas	1 day	Thu 10/6/16	Thu 10/6/16						
8	Create Decision Matrix/Select Project	1 day	Fri 10/7/16	Fri 10/7/16						
9	<b>Create Project Proposal</b>	<b>4 days</b>	<b>Fri 10/7/16</b>	<b>Tue 10/11/16</b>						
10	Write Proposal Draft	2 days	Fri 10/7/16	Sat 10/8/16						
11	Review Proposal Draft	1 day	Mon 10/10/16	Mon 10/10/16						
12	Revise Proposal Draft	1 day	Tue 10/11/16	Tue 10/11/16						
13	Submit Final Proposal	0 days	Tue 10/11/16	Tue 10/11/16						
14	<b>Create Requirements Document</b>	<b>7 days</b>	<b>Tue 10/18/16</b>	<b>Tue 10/25/16</b>						
15	Write Requirements Draft	2 days	Tue 10/18/16	Wed 10/19/16						
16	Review Requirements Draft	1 day	Thu 10/20/16	Thu 10/20/16						
17	Revise Requirements Draft	1 day	Fri 10/21/16	Fri 10/21/16						
18	Submit Final Requirements Document	0 days	Tue 10/25/16	Tue 10/25/16						
19	<b>Research</b>	<b>21 days</b>	<b>Mon 10/10/16</b>	<b>Wed 11/2/16</b>						
20	Explore Current Market Automated Window Shades	2 days	Mon 10/10/16	Tue 10/11/16						
21	Research MCU Options	3 days	Mon 10/17/16	Wed 10/19/16						
22	Research Wireless Communication Options	3 days	Mon 10/17/16	Wed 10/19/16						






















Project: Project1 Date: Mon 11/7/16		Task		Inactive Summary		External Tasks	
		Split		Manual Task		External Milestone	
		Milestone		Duration-only		Deadline	
		Summary		Manual Summary Rollup		Progress	
		Project Summary		Manual Summary		Manual Progress	
		Inactive Task		Start-only			
		Inactive Milestone		Finish-only			

ID	Task Name	Duration	Start	Finish	Oct 9, '16			
					T	M	F	T
23	Research Window Shades Actuator Options	1 day	Thu 10/27/16	Thu 10/27/16				
24	Research Schematic Capture Software Options	1 day	Mon 10/10/16	Mon 10/10/16				
25	Research MCU Programing Tools	3 days	Mon 10/31/16	Wed 11/2/16				
26	<b>Design Window Shade Mechanism</b>	<b>8 days</b>	<b>Fri 10/21/16</b>	<b>Fri 10/28/16</b>				
27	Brainstorm Enclosure/Mechanism Ideas	3 days	Fri 10/21/16	Sun 10/23/16				
28	Draw Concept Sketches	2 days	Mon 10/24/16	Tue 10/25/16				
29	Meet with Team to Select Final Mechanism Approach	1 day	Wed 10/26/16	Wed 10/26/16				
30	Create 3D Model of PCB Enclosure	2 days	Thu 10/27/16	Fri 10/28/16				
31	Create 3D Model of Demo Unit	1 day	Thu 10/27/16	Thu 10/27/16				
32	<b>Design Preliminary Schematic</b>	<b>11 days</b>	<b>Fri 10/14/16</b>	<b>Wed 10/26/16</b>				
33	Download Schematic Capture Software	1 day	Fri 10/14/16	Fri 10/14/16				
34	Create Functional Block Diagram for Circuit	2 days	Mon 10/24/16	Tue 10/25/16				
35	<b>Create Preliminary Schematic</b>	<b>7 days</b>	<b>Thu 10/20/16</b>	<b>Wed 10/26/16</b>				
36	Design PCB Power Circuit	1 day	Wed 10/26/16	Wed 10/26/16				
37	Design MCU Operation Circuit	1 day	Thu 10/20/16	Thu 10/20/16				
38	Design Device I/O Circuitry	1 day	Fri 10/21/16	Fri 10/21/16				
39	Select Prototyping Parts	2 days	Sat 10/22/16	Sun 10/23/16				
40	Create Prototyping BOM	1 day	Mon 10/24/16	Mon 10/24/16				
41	Order Prototyping Parts	1 day	Tue 10/25/16	Tue 10/25/16				
42	<b>Prototype Project</b>	<b>8 days</b>	<b>Wed 10/26/16</b>	<b>Thu 11/3/16</b>				
43	Build Prototype	3 days	Wed 10/26/16	Fri 10/28/16				
44	Test Basic Functionality	2 days	Sun 10/30/16	Mon 10/31/16				

Project: Project1 Date: Mon 11/7/16	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Progress	
	Project Summary		Manual Summary		Manual Progress	
	Inactive Task		Start-only			
	Inactive Milestone		Finish-only			

ID	Task Name	Duration	Start	Finish	Oct 9, '16			
					T	M	F	T
45	Setup and Test Programing Tool	2 days	Wed 10/26/16	Thu 10/27/16				
46	Interface each Sensor and Actuator with MCU	4 days	Mon 10/31/16	Thu 11/3/16				
47	Revise Schematic Based on Prototyping	1 day	Tue 11/1/16	Tue 11/1/16				
48	Review Revised Schematic	1 day	Wed 11/2/16	Wed 11/2/16				
49	Upload Final Schematic	0 days	Thu 11/3/16	Thu 11/3/16				
50	<b>Design PCB</b>	<b>15 days</b>	<b>Fri 11/4/16</b>	<b>Tue 11/22/16</b>				
51	Select PCB Components	4 days	Fri 11/4/16	Tue 11/8/16				
52	Create PCB BOM	1 day	Wed 11/9/16	Wed 11/9/16				
53	Import Part Symbols and Footprints into Schematic Capture Tool	2 days	Thu 11/10/16	Fri 11/11/16				
54	Determine PCB Size	1 day	Thu 11/10/16	Thu 11/10/16				
55	Layout PCB	3 days	Sat 11/12/16	Tue 11/15/16				
56	Review Layout	2 days	Wed 11/16/16	Thu 11/17/16				
57	Route PCB	2 days	Fri 11/18/16	Mon 11/21/16				
58	Review Routing	1 day	Tue 11/22/16	Tue 11/22/16				
59	Review Gerber Files	1 day	Tue 11/22/16	Tue 11/22/16				
60	Submit PCB Files for Ordering	0 days	Tue 11/22/16	Tue 11/22/16				
61	<b>Program MCU</b>	<b>13 days</b>	<b>Wed 11/9/16</b>	<b>Thu 11/24/16</b>				
62	Write Pseudocode	3 days	Wed 11/9/16	Fri 11/11/16				
63	Translate Code to MCU Programing Language	5 days	Sat 11/12/16	Thu 11/17/16				
64	Run Code on Prototype Setup	1 day	Fri 11/18/16	Fri 11/18/16				
65	Debug Code	3 days	Mon 11/21/16	Wed 11/23/16				
66	Revise Code	1 day	Thu 11/24/16	Thu 11/24/16				

Project: Project1 Date: Mon 11/7/16	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
	Summary		Manual Summary Rollup		Progress	
	Project Summary		Manual Summary		Manual Progress	
	Inactive Task		Start-only			
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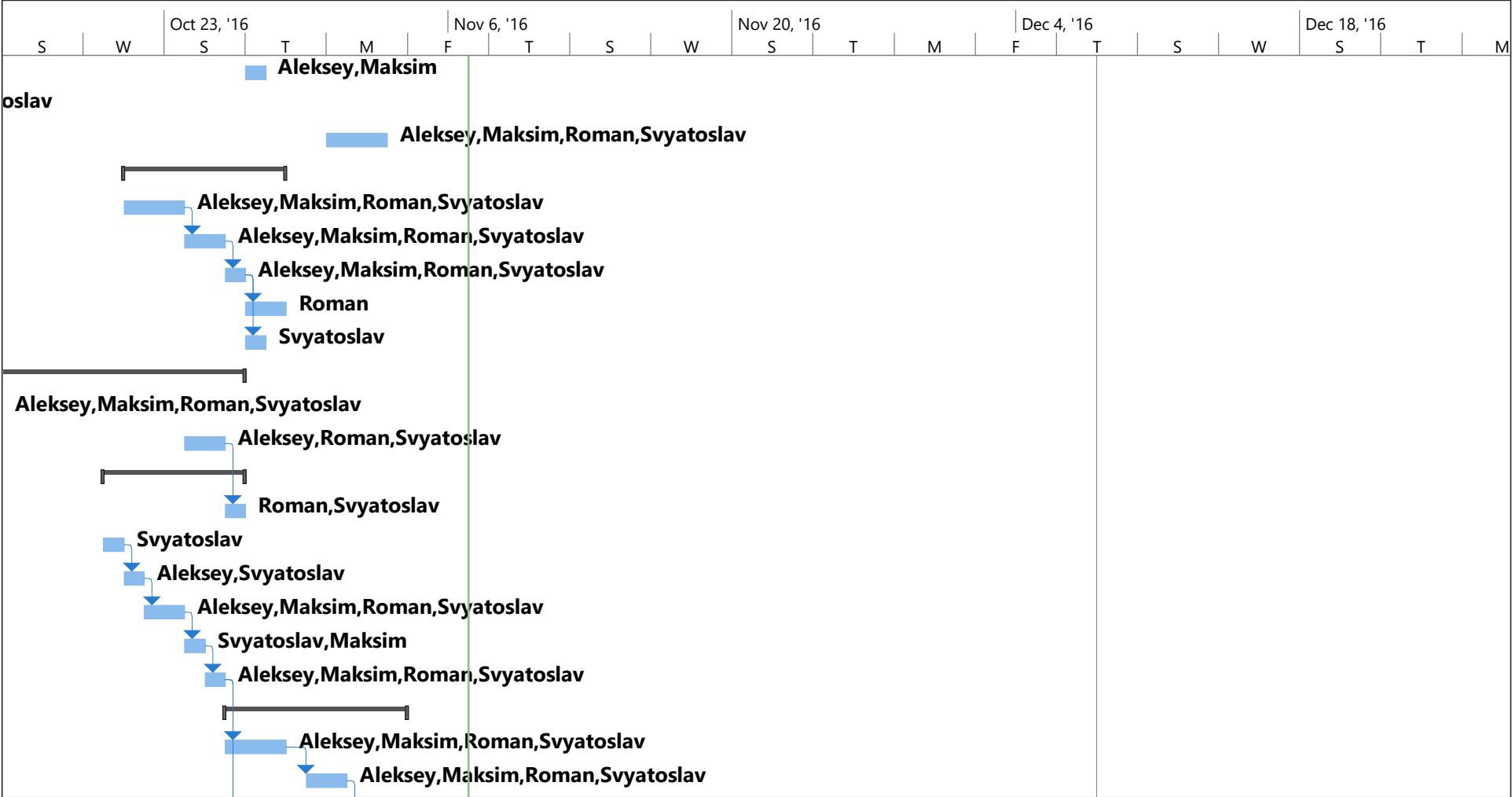
ID	Task Name	Duration	Start	Finish	Oct 9, '16			
					T	M	F	T
67	Assemble Boards	2 days	Wed 11/23/16	Thu 11/24/16				
68	<b>Assemble Window Shades for Demo</b>	<b>4 days</b>	<b>Fri 11/25/16</b>	<b>Wed 11/30/16</b>				
69	Create PCB Enclosure	2 days	Fri 11/25/16	Mon 11/28/16				
70	Build Window Shade Mechanism	2 days	Tue 11/29/16	Wed 11/30/16				
71	<b>Verify Project Requirements Have Been Met</b>	<b>2 days</b>	<b>Thu 12/1/16</b>	<b>Fri 12/2/16</b>				
72	Test Ease of Use	1 day	Thu 12/1/16	Thu 12/1/16				
73	Conduct Stress Testing	1 day	Thu 12/1/16	Thu 12/1/16				
74	Test Long Term Functionality	2 days	Thu 12/1/16	Fri 12/2/16				
75	<b>Create Final Project Documentation</b>	<b>2 days</b>	<b>Mon 12/5/16</b>	<b>Tue 12/6/16</b>				
76	Review Documents	1 day	Mon 12/5/16	Mon 12/5/16				
77	Revise Documents	1 day	Tue 12/6/16	Tue 12/6/16				
78	Submit Final Documents	0 days	Tue 12/6/16	Tue 12/6/16				
79	Present Project	1 day	Wed 12/7/16	Wed 12/7/16				



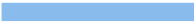


















Project: Project1  
Date: Mon 11/7/16

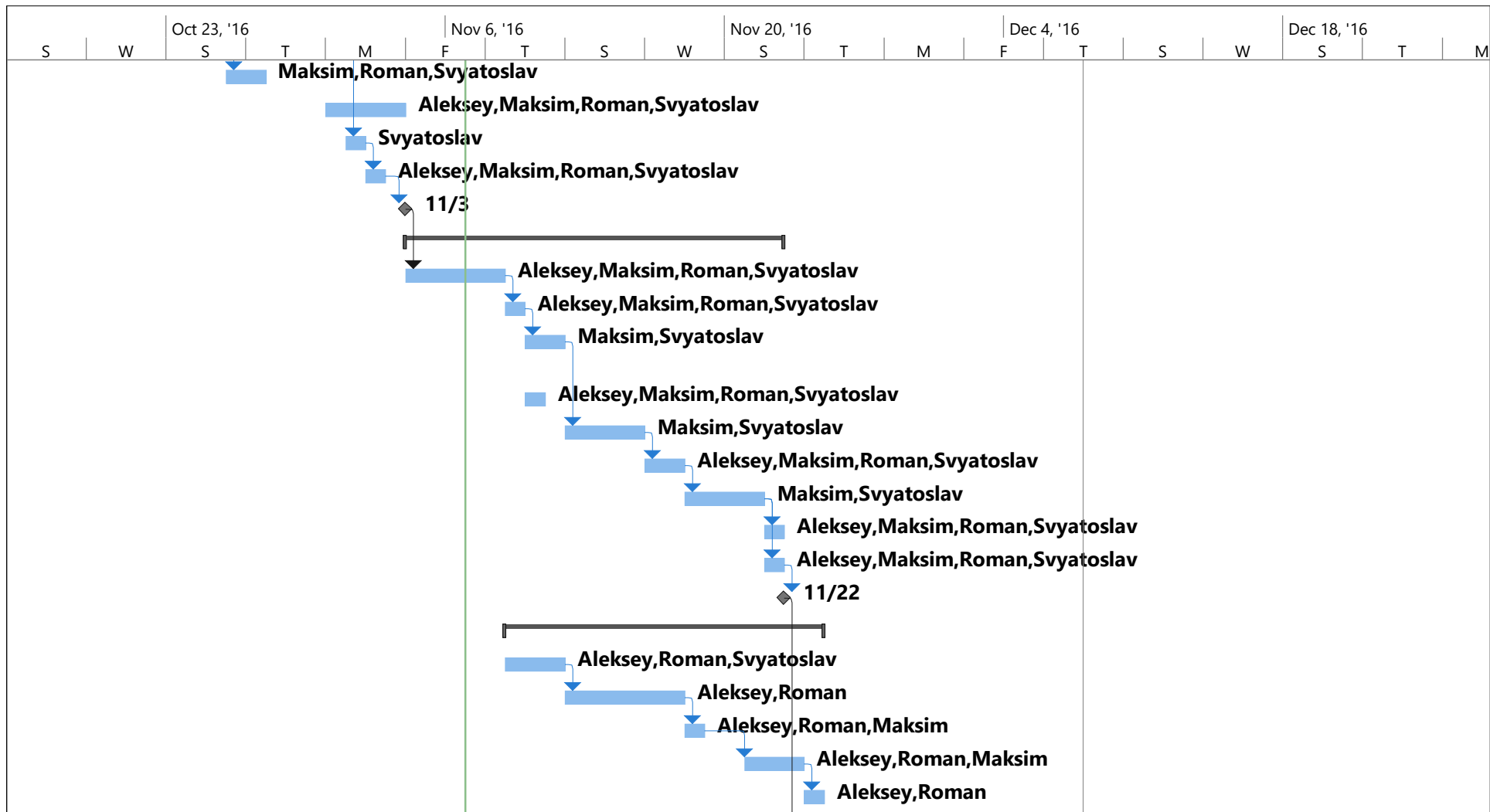
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Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
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Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			





Project: Project1  
Date: Mon 11/7/16

Task		Inactive Summary		External Tasks	
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Project Summary		Manual Summary		Manual Progress	
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Inactive Milestone		Finish-only			



Project: Project1  
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Task		Inactive Summary		External Tasks	
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