ID		Task Mode	Task Name	Duration	Start	Finish	% Complete	Predecessors
1	✓		**Project Proposal**	**10 days**	**Mon 10/5/15**	**Wed 10/14/15**	**100%**	
2	✓		Create Wiki and Repository	2 days	Mon 10/5/15	Tue 10/6/15	100%	
3	✓		Brainstorm	3 days	Mon 10/5/15	Wed 10/7/15	100%	
4	✓		Decision Matrix	1 day	Sat 10/10/15	Sat 10/10/15	100%	3
5	✓		Decide on Project	1 day	Sat 10/10/15	Sat 10/10/15	100%	4FF
6	✓		Concept Pictures	3 days	Sun 10/11/15	Tue 10/13/15	100%	5
7								
8	✓		**Design Specification**	**5 days**	**Thu 10/22/15**	**Mon 10/26/15**	**100%**	**1**
9	✓		**Research**	**3 days**	**Thu 10/22/15**	**Sat 10/24/15**	**100%**	
10	✓		On Our Topic	3 days	Thu 10/22/15	Sat 10/24/15	100%	
11	✓		On Marketing	3 days	Thu 10/22/15	Sat 10/24/15	100%	
12	✓		On Competition	3 days	Thu 10/22/15	Sat 10/24/15	100%	
13	✓		Engineering Specifications	2 days	Sun 10/25/15	Mon 10/26/15	100%	9
14	✓		Engineering Constraints	2 days	Sun 10/25/15	Mon 10/26/15	100%	9
15								
16			**Schematic**	**29 days**	**Mon 10/12/15**	**Mon 11/9/15**	**78%**	**5**
17	✓		**Research Components**	**18 days**	**Mon 10/12/15**	**Thu 10/29/15**	**100%**	
18	✓		Servo Torque Calculations	1 day	Mon 10/12/15	Mon 10/12/15	100%	
19	✓		Power Systems	3 days	Sat 10/24/15	Mon 10/26/15	100%	
20	✓		**Pick and Purchase Components**	**11 days**	**Mon 10/19/15**	**Thu 10/29/15**	**100%**	**17**
21	✓		Power Calculations	3 days	Tue 10/27/15	Thu 10/29/15	100%	
22			Test All Components	16 days	Thu 10/22/15	Fri 11/6/15	75%	20FF
23	✓		Create Schematic in Eagle	13 days	Wed 10/21/15	Mon 11/2/15	100%	20

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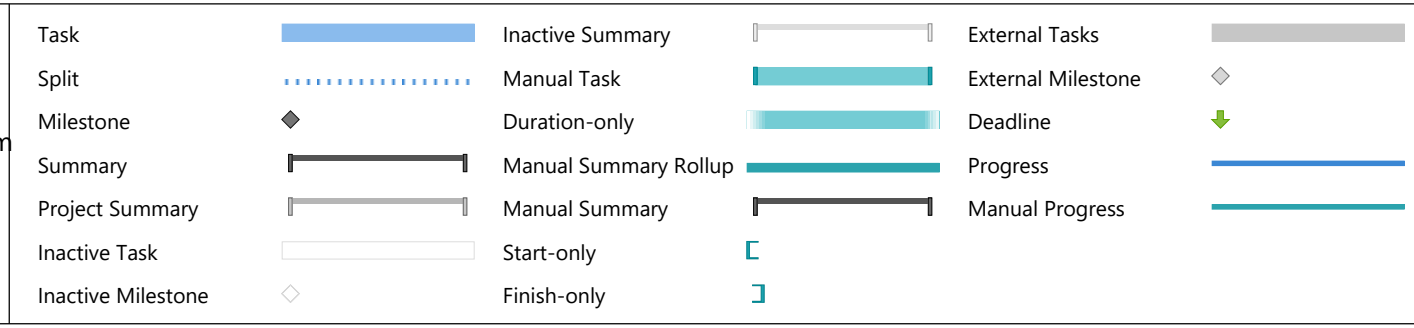

ID	Task Mode	Task Name	Duration	Start	Finish	% Complete	Predecessors
24		ERC	0 days	Sun 11/1/15	Sun 11/1/15	100%	
25		Schematic Review	12 days	Thu 10/29/15	Mon 11/9/15	50%	23FF
26			1 day?	Mon 10/12/15	Mon 10/12/15	0%	
27		**Project Schedule**	**4 days**	**Sun 11/1/15**	**Wed 11/4/15**	**100%**	
28		Create Tasks	3 days	Sun 11/1/15	Tue 11/3/15	100%	
29		Breakdown Tasks	2 days	Mon 11/2/15	Tue 11/3/15	100%	
30		Assign Tasks	2 days	Tue 11/3/15	Wed 11/4/15	100%	29FF
31							
32		**PCB**	**22 days**	**Wed 11/4/15**	**Wed 11/25/15**	**0%**	**23**
33		Layout	5 days	Wed 11/4/15	Sun 11/8/15	0%	23
34		DRC	0 days	Sat 11/7/15	Sat 11/7/15	0%	
35		Review	3 days	Fri 11/6/15	Sun 11/8/15	0%	33FF
36		Submit to OSHPark	8 days	Mon 11/9/15	Mon 11/16/15	0%	33,34,26
37		Solder Components	9 days	Tue 11/17/15	Wed 11/25/15	0%	36
38		Test PCB	9 days	Tue 11/17/15	Wed 11/25/15	0%	36,37FF
39							
40		**Interface Microprocessor and Accelerometer**	**6 days**	**Tue 11/3/15**	**Sun 11/8/15**	**0%**	**20**
41		**TWI Communication**	**6 days**	**Tue 11/3/15**	**Sun 11/8/15**	**0%**	
42		Research Datasheets	3 days	Tue 11/3/15	Thu 11/5/15	0%	
43		**Create Module**	**4 days**	**Thu 11/5/15**	**Sun 11/8/15**	**0%**	
44		Accelerometer Initialization	2 days	Sat 11/7/15	Sun 11/8/15	0%	
45							
46		**Interface Microprocessor and Servo Controller**	**6 days**	**Tue 11/3/15**	**Sun 11/8/15**	**0%**	**20**

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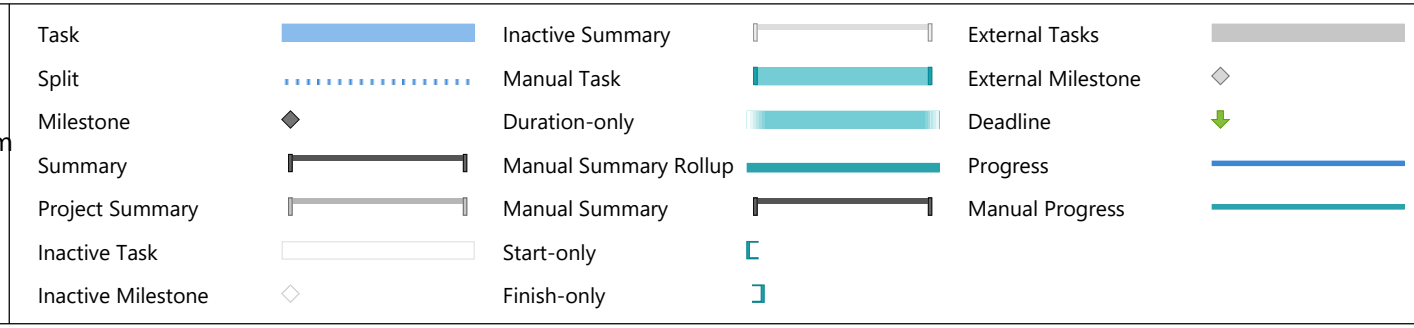

ID	Task Mode	Task Name	Duration	Start	Finish	% Complete	Predecessors
47		**UART Communication**	**6 days**	**Tue 11/3/15**	**Sun 11/8/15**	**0%**	
48		Research Datasheets	3 days	Tue 11/3/15	Thu 11/5/15	0%	
49		**Create Module**	**4 days**	**Thu 11/5/15**	**Sun 11/8/15**	**0%**	
50		Servo Controller Initialization	2 days	Sat 11/7/15	Sun 11/8/15	0%	
51							
52		**Microcontroller Setup**	**18 days**	**Thu 10/22/15**	**Sun 11/8/15**	**0%**	**20,23**
53		Connect to AVR Programmer	2 days	Thu 10/22/15	Fri 10/23/15	0%	
54		Create Bootloader	6 days	Tue 11/3/15	Sun 11/8/15	0%	
55		Adjust Settings	6 days	Tue 11/3/15	Sun 11/8/15	0%	
56							
57		**LED Decoration**	**11 days**	**Thu 10/29/15**	**Sun 11/8/15**	**0%**	**20**
58		Research LEDs	7 days	Thu 10/29/15	Wed 11/4/15	0%	
59		Integrate LEDs into design	3 days	Wed 11/4/15	Fri 11/6/15	0%	23,58FF
60		Create LED control code	5 days	Wed 11/4/15	Sun 11/8/15	0%	59FF
61		Test LEDs	3 days	Fri 11/6/15	Sun 11/8/15	0%	60FF
62							
63		**Base and Tray**	**8 days**	**Mon 11/9/15**	**Mon 11/16/15**	**0%**	**33,20**
64		Pick and Purchase Materials	1 day	Mon 11/9/15	Mon 11/9/15	0%	
65		Create Base Layout	1 day	Tue 11/10/15	Tue 11/10/15	0%	86
66		Cutting and Drilling	3 days	Wed 11/11/15	Fri 11/13/15	0%	
67		Mount Components and Assembly Tray	3 days	Mon 11/9/15	Wed 11/11/15	0%	33,20,86
68							
69		**Microcontroller Main Program**	**8 days**	**Mon 11/9/15**	**Mon 11/16/15**	**0%**	**40,46,52,67**

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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 Mode	Task Name	Duration	Start	Finish	% Complete	Predecessors
70		**Get Data From Accelerometer**	**1 day**	**Mon 11/9/15**	**Mon 11/9/15**	**0%**	**40**
71		Determine Sampling Rate	1 day	Mon 11/9/15	Mon 11/9/15	0%	
72		Send Servo Adjustment Data to Servo Controller	1 day	Tue 11/10/15	Tue 11/10/15	0%	46
73		LED Interaction	1 day	Wed 11/11/15	Wed 11/11/15	0%	52,57
74		**Tray Stabilization Algorithm**	**5 days**	**Thu 11/12/15**	**Mon 11/16/15**	**0%**	
75		Servo Adjustment Calculations	3 days	Sat 11/14/15	Mon 11/16/15	0%	63FF
76							
77		**Servo Arm Design**	**22 days**	**Sat 10/24/15**	**Sat 11/14/15**	**0%**	**18**
78		Research Designs	4 days	Sat 10/24/15	Tue 10/27/15	0%	
79		Pick and Purchase Materials	4 days	Wed 10/28/15	Sat 10/31/15	0%	
80		Assemble Arms	6 days	Mon 11/9/15	Sat 11/14/15	0%	
81							
82		System Design Model	15 days	Wed 11/4/15	Wed 11/18/15	0%	
83							
84		**Final Documentation**	**14 days**	**Wed 11/4/15**	**Tue 11/17/15**	**0%**	
85		Hardware Setup	2 days	Mon 11/16/15	Tue 11/17/15	0%	67
86		3D Model	3 days	Wed 11/4/15	Fri 11/6/15	0%	
87							
88		**Testing and Error Checking**	**18 days**	**Thu 11/19/15**	**Sun 12/6/15**	**0%**	**67,69,82**
89		**Test Plan**	**7 days**	**Thu 11/19/15**	**Wed 11/25/15**	**0%**	
90		Test Cases	7 days	Thu 11/19/15	Wed 11/25/15	0%	
91		Testing	11 days	Thu 11/26/15	Sun 12/6/15	0%	
92							

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

ID	Task Mode	Task Name	Duration	Start	Finish	% Complete	Predecessors
93		Final Demo	5 days	Mon 12/7/15	Fri 12/11/15	0%	88

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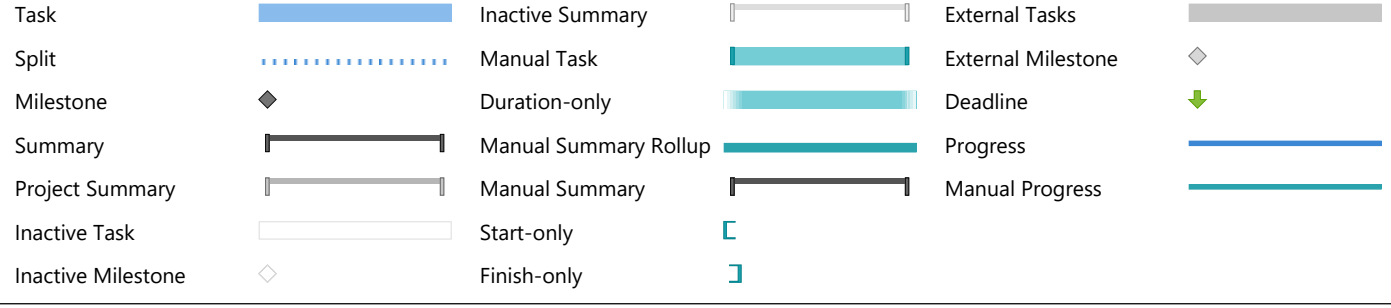

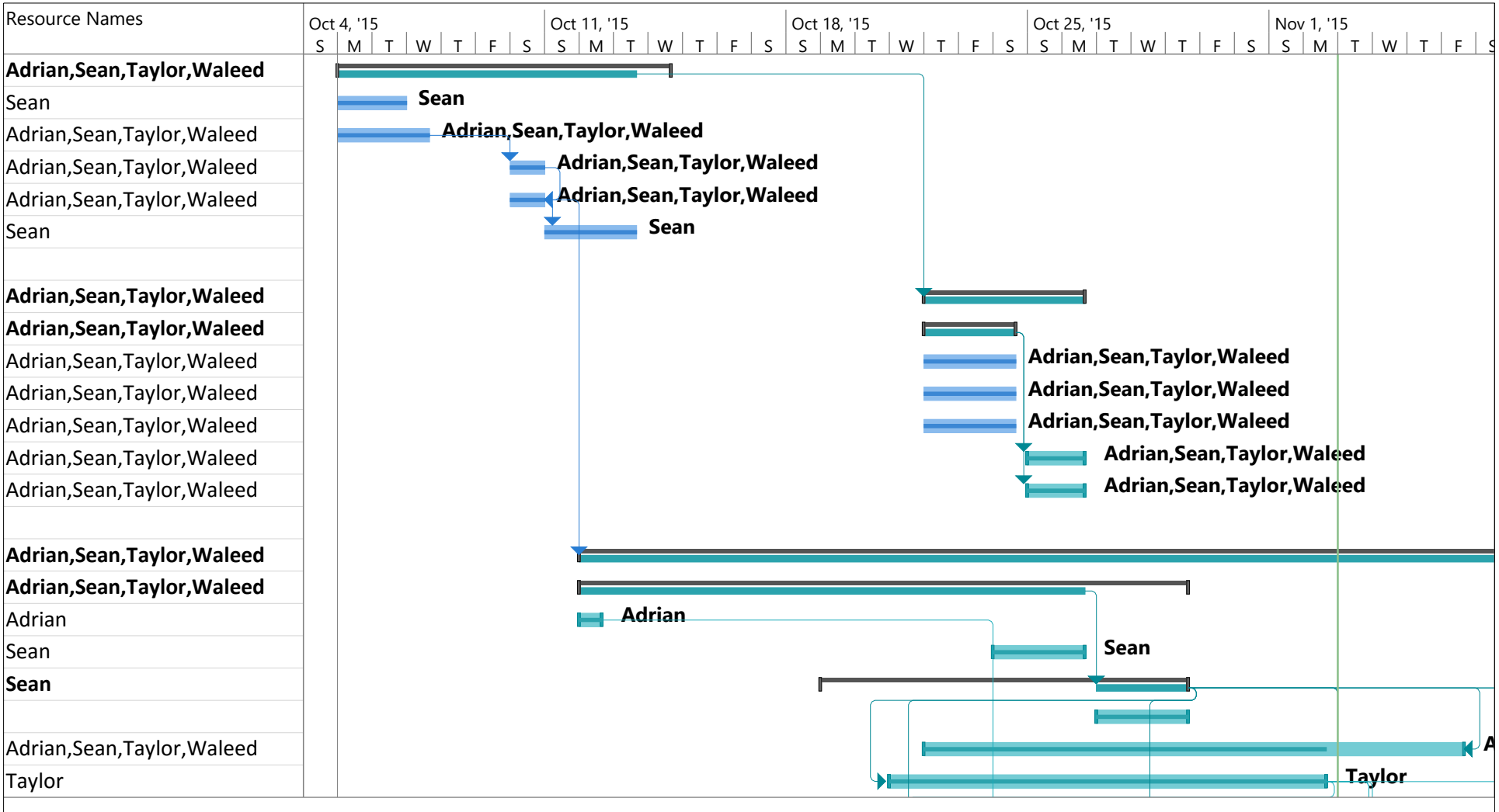

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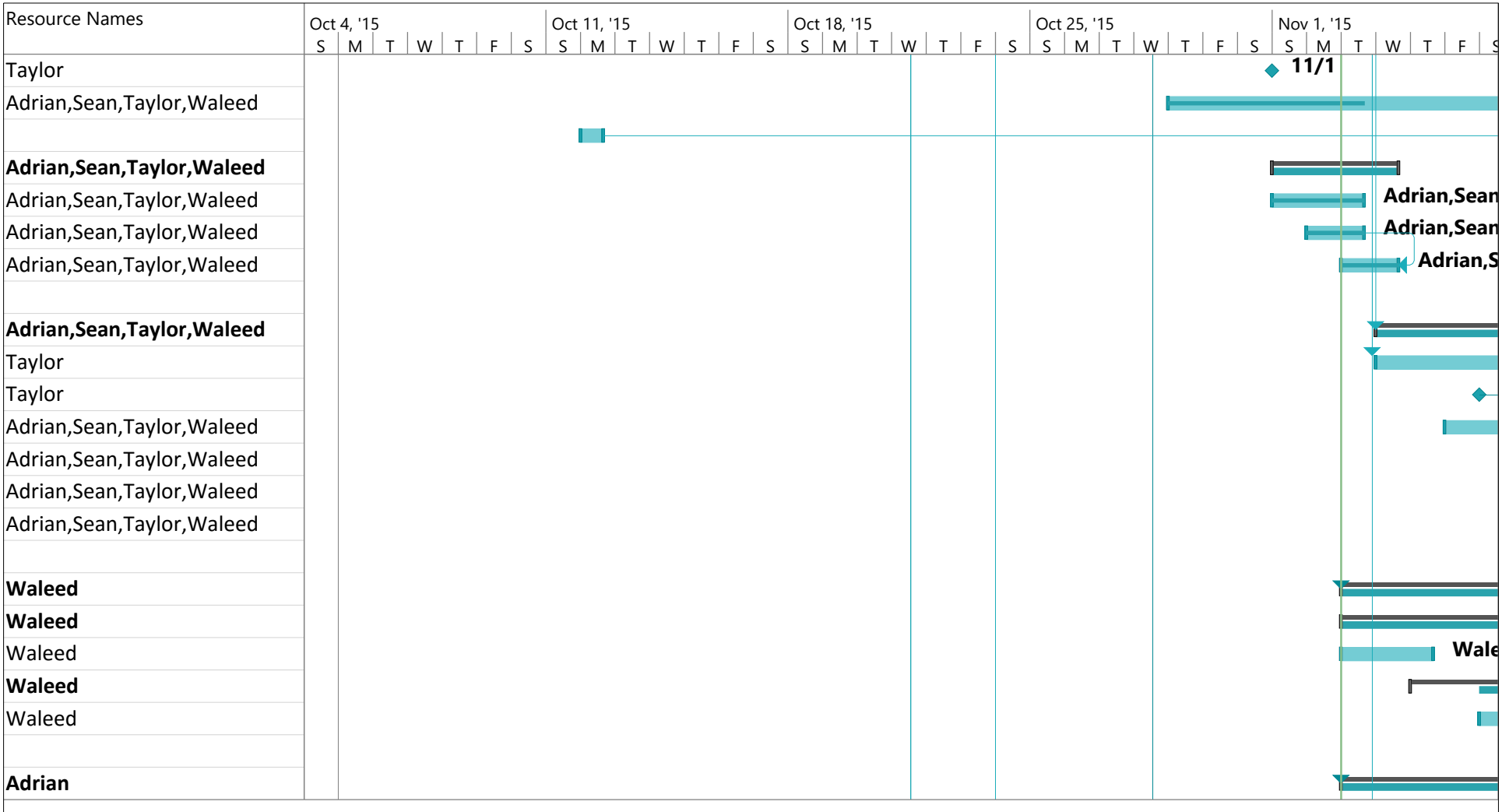

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Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
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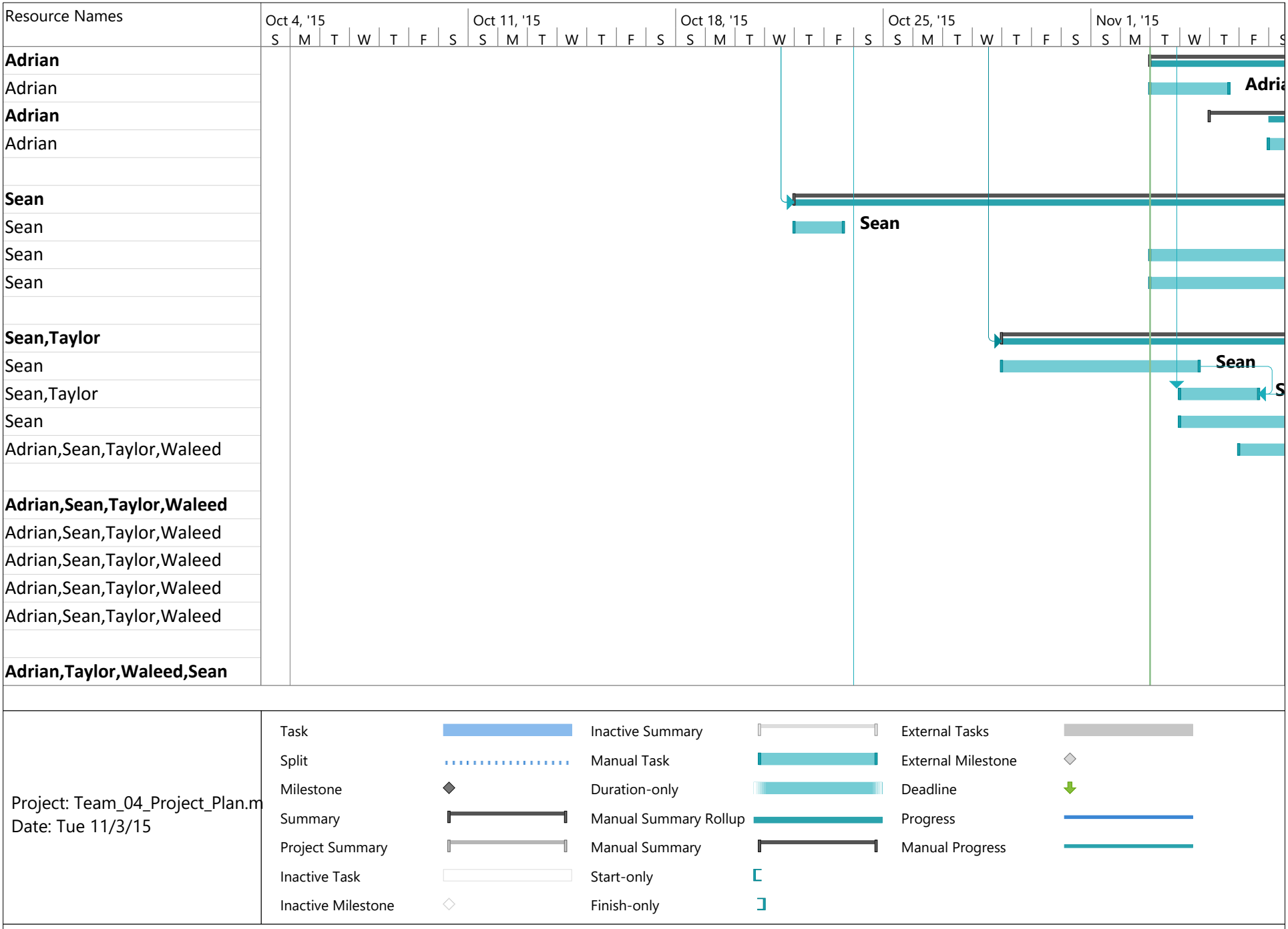
Inactive Task		Start-only			
Inactive Milestone		Finish-only			


Resource Names
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S M T W T F S
Oct 11, '15
S M T W T F S
Oct 18, '15
S M T W T F S
Oct 25, '15
S M T W T F S
Nov 1, '15
S M T W T F S
Adrian
Adrian
Adrian
Adrian
Sean
Sean
Sean
Sean
Sean,Taylor
Sean
Sean,Taylor
Sean
Adrian,Sean,Taylor,Waleed
Adrian,Sean,Taylor,Waleed
Adrian,Sean,Taylor,Waleed
Adrian,Sean,Taylor,Waleed
Adrian,Sean,Taylor,Waleed
Adrian,Taylor,Waleed,Sean
Sean
Sean
Adria
Project: Team_04_Project_Plan.m
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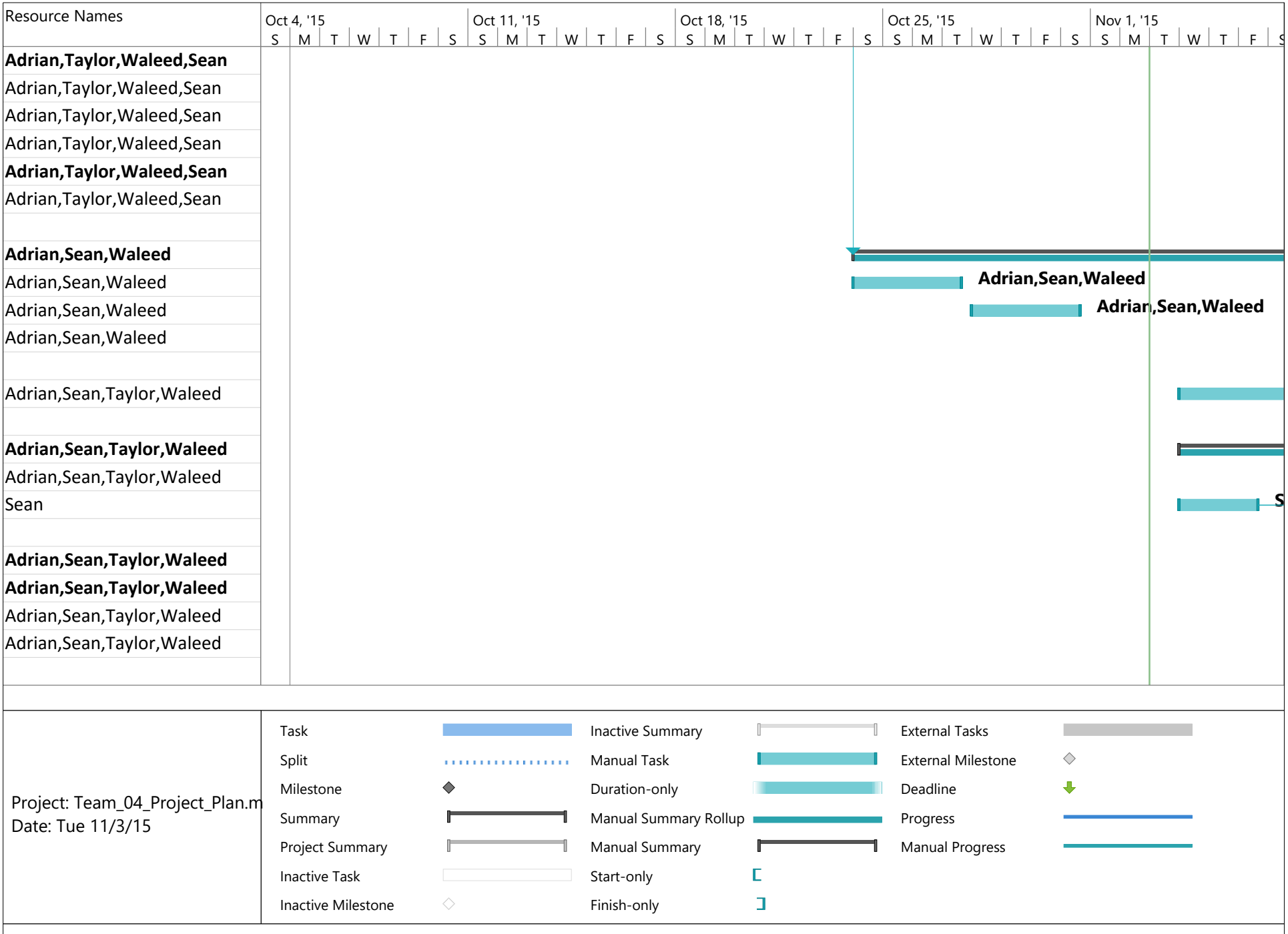
Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress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Oct 11, '15
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Oct 18, '15
S M T W T F S
Oct 25, '15
S M T W T F S
Nov 1, '15
S M T W T F S
Adrian,Taylor,Waleed,Sean
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Adrian,Taylor,Waleed,Sean
Adrian,Taylor,Waleed,Sean
Adrian,Taylor,Waleed,Sean
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Project: Team_04_Project_Plan.m
Date: Tue 11/3/15
Task
Split
Milestone
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Project Summary
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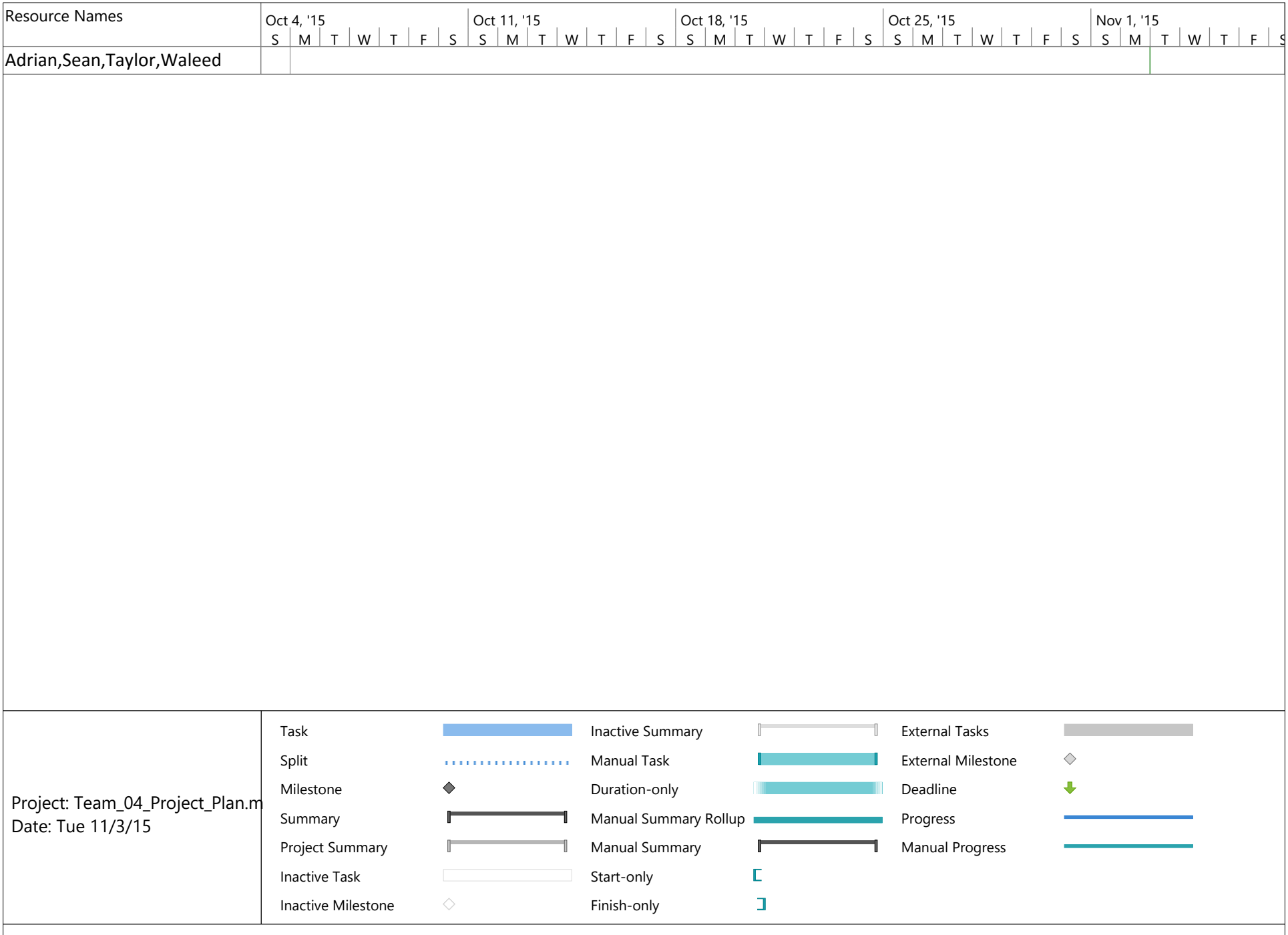
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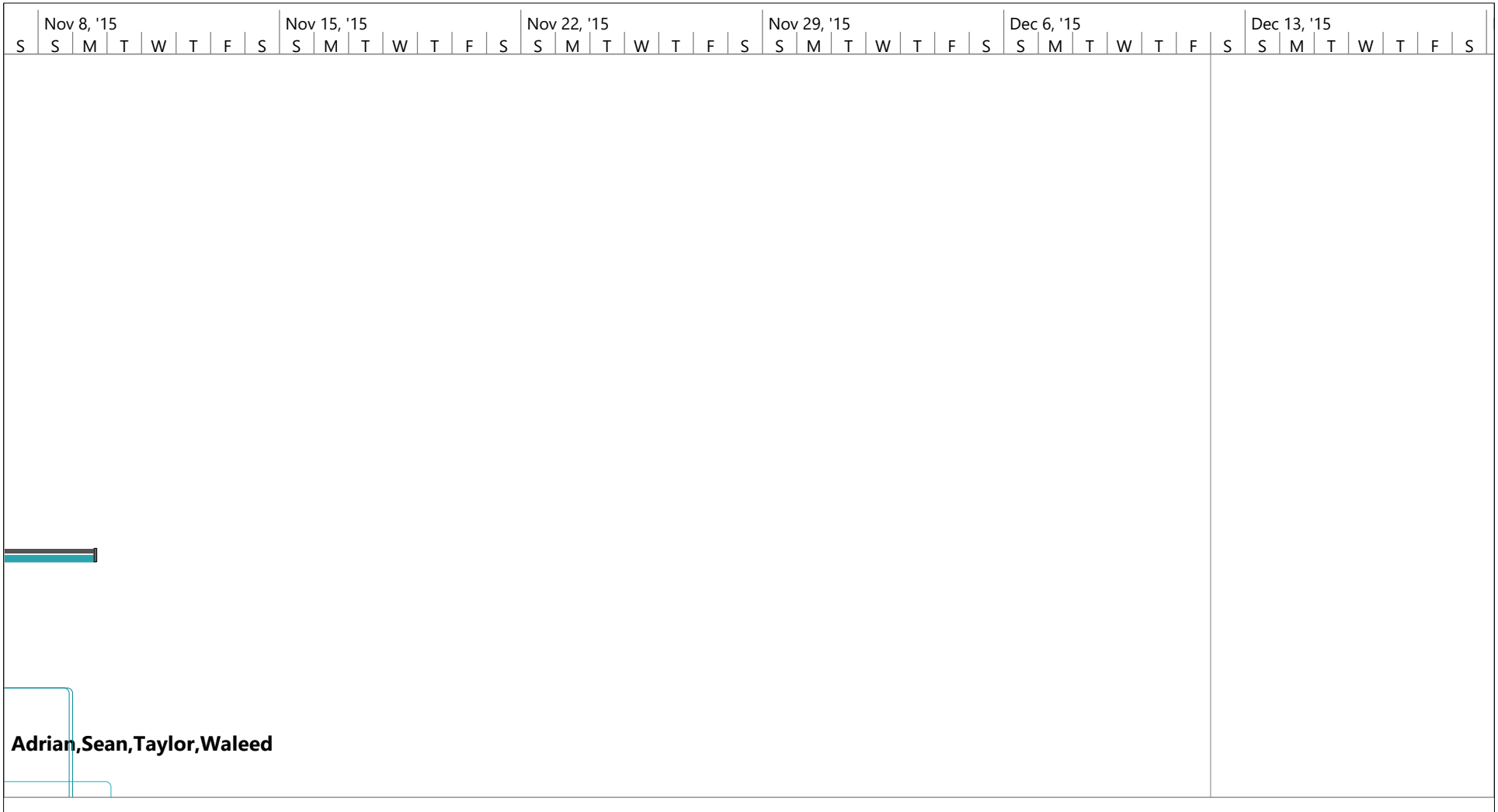

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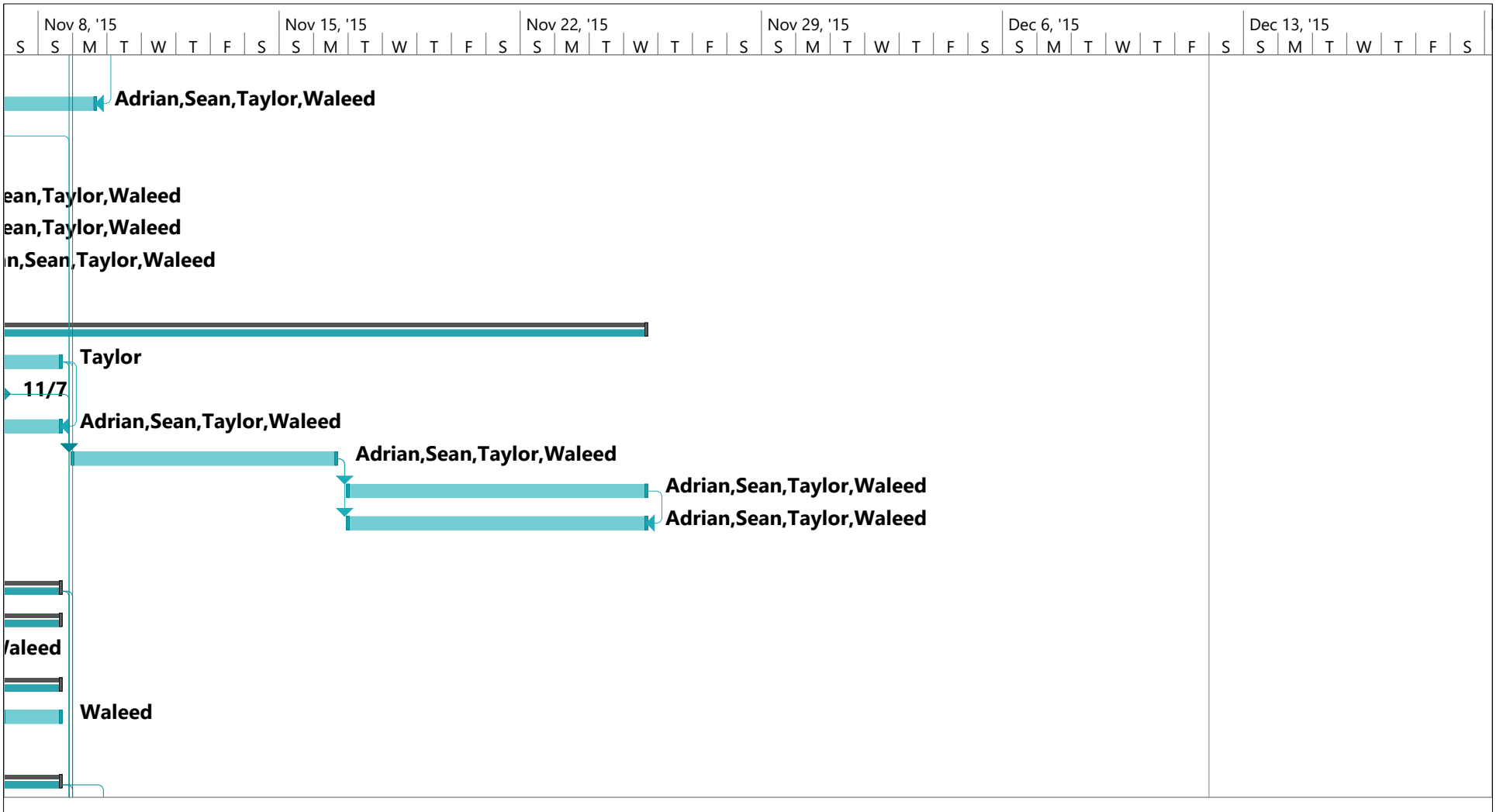
Inactive Milestone	Finish-only	



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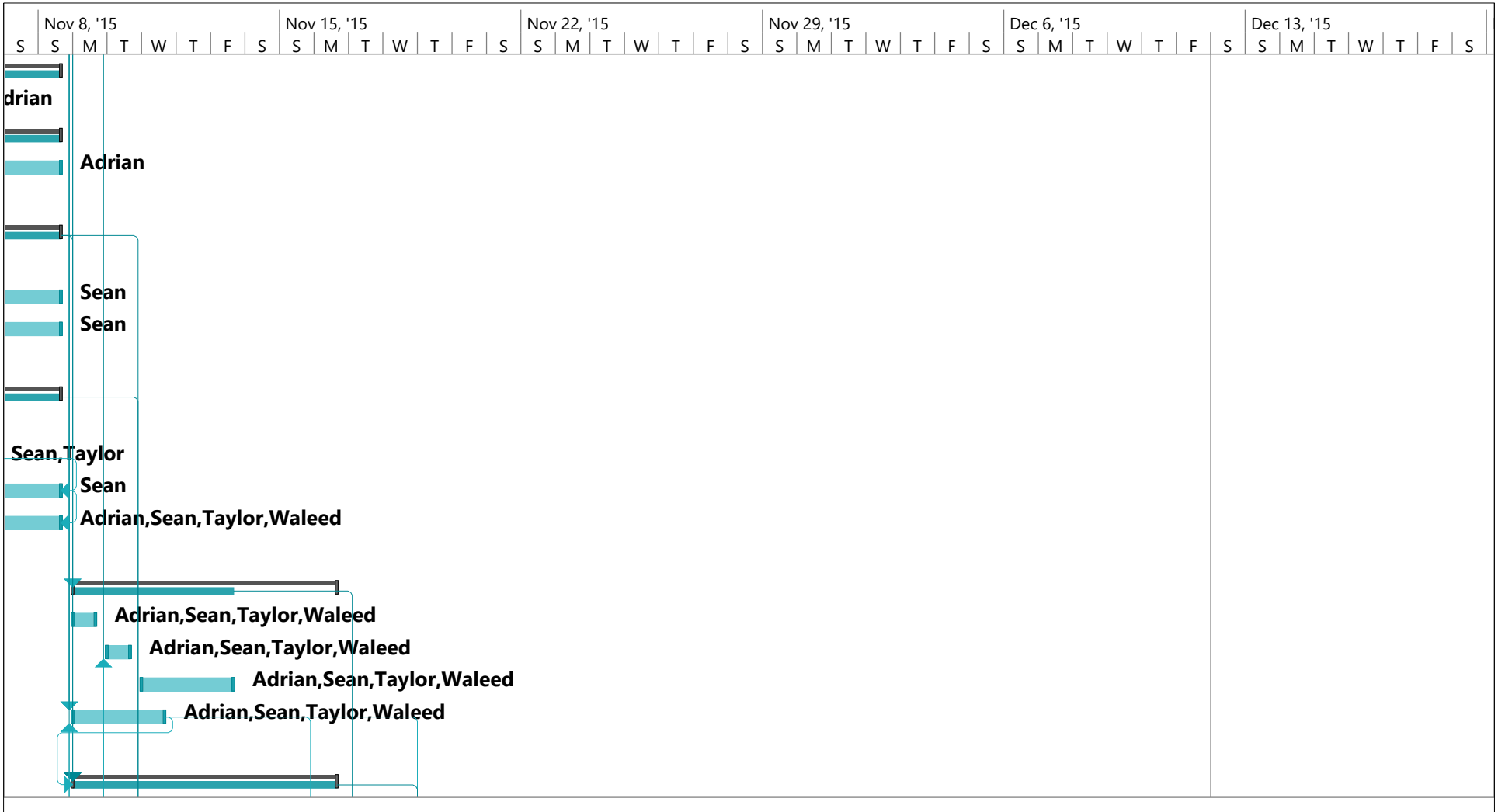

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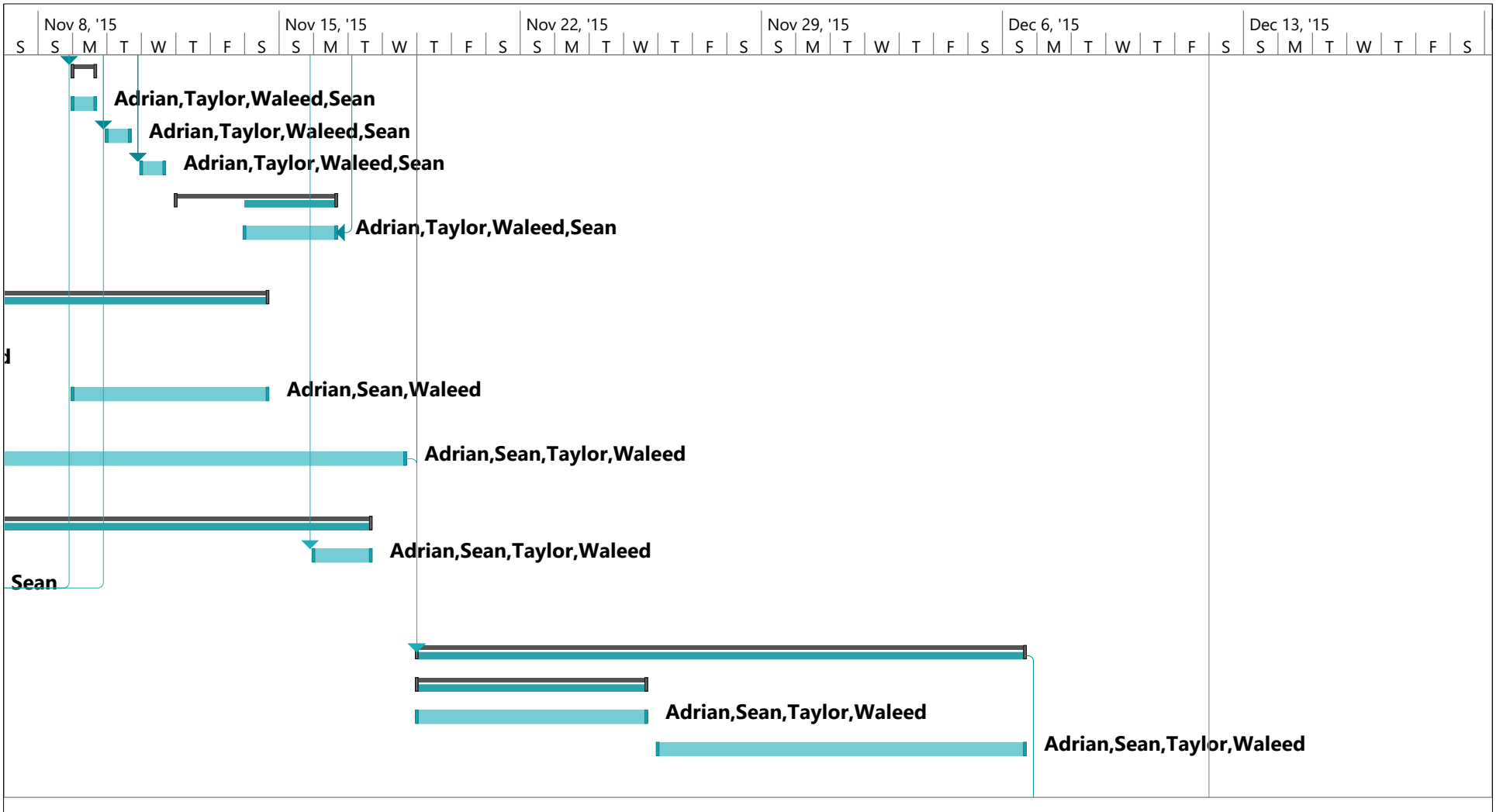

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Split	Manual Task	External Milestone
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Inactive Milestone	Finish-only	