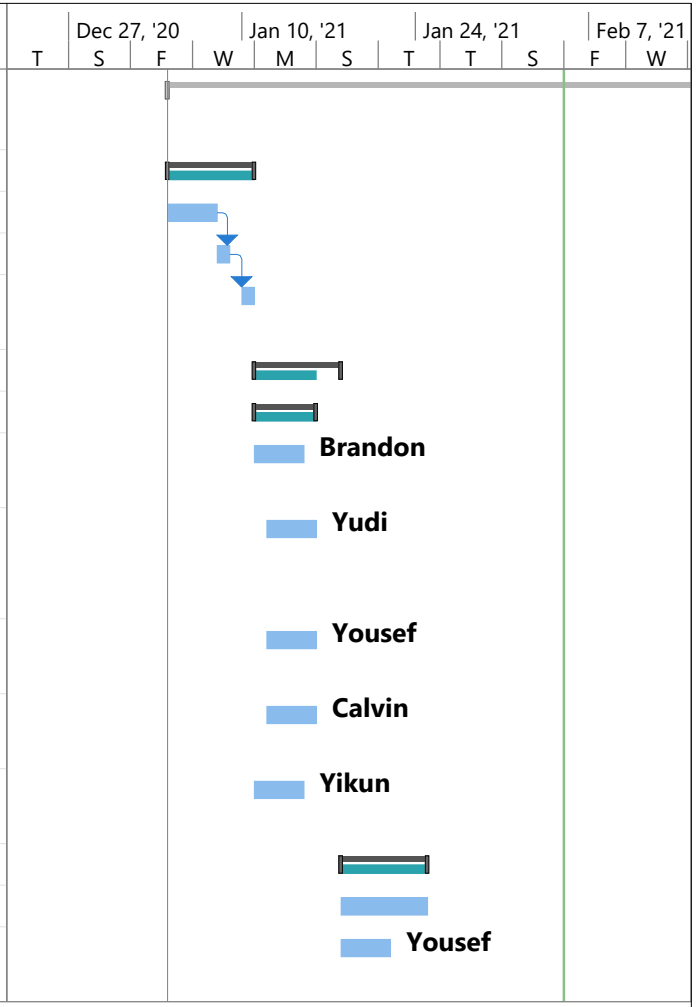
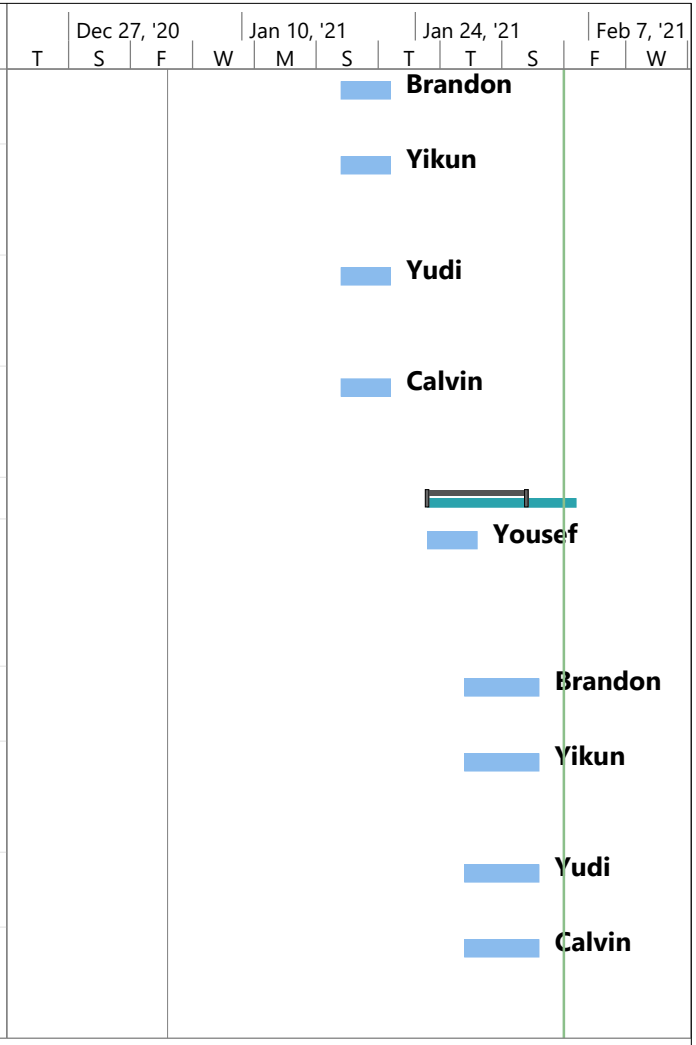
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
0		**Sensor Suite - Team 20 V1.0**	**122 days?**	**Jan 4 '21**	**Jun 13 '21**	
1		**Week 1**	**6 days?**	**Jan 4 '21**	**Jan 10 '21**	
2		Brain storming	4 days?	Jan 4 '21	Jan 7 '21	
3		Meet with spons	1 day?	Jan 8 '21	Jan 8 '21	2
4		Create Github and google	1 day?	Jan 10 '21	Jan 10 '21	3
5		**Week 2**	**6 days?**	**Jan 11 '21**	**Jan 17 '21**	
6		**Make PDS**	**5 days**	**Jan 11 '21**	**Jan 15 '21**	
7		Research market	4 days	Jan 11 '21	Jan 14 '21	
8		Research Smartmesh IP module	4 days	Jan 12 '21	Jan 15 '21	
9		sketch functinal	4 days	Jan 12 '21	Jan 15 '21	
10		Research design	4 days	Jan 12 '21	Jan 15 '21	
11		Research for low power	4 days	Jan 11 '21	Jan 14 '21	
12		**Week 3**	**6 days?**	**Jan 18 '21**	**Jan 24 '21**	
13		Continue PDS	6 days	Jan 18 '21	Jan 24 '21	
14		Research power consumption	4 days	Jan 18 '21	Jan 21 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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	

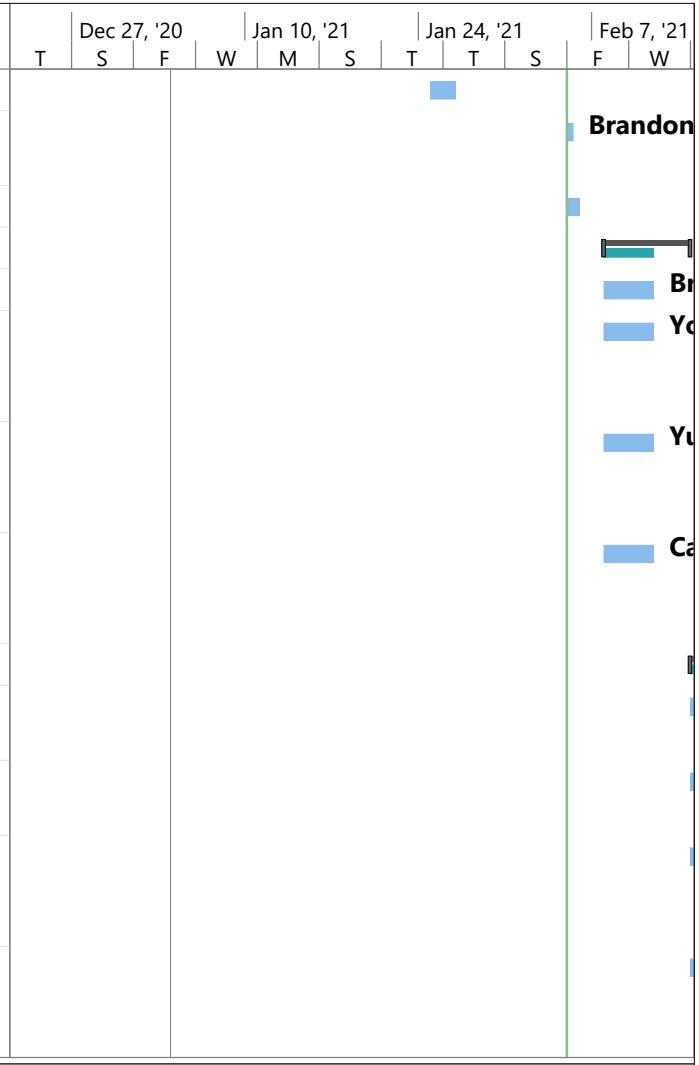
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
15		Research CO2/O2 sensors	4 days	Jan 18 '21	Jan 21 '21	
16		Research Temp&Light sensors	4 days	Jan 18 '21	Jan 21 '21	
17		Research Smartmesh IP Mote module	4 days	Jan 18 '21	Jan 21 '21	
18		Research Smartmesh IP Manager	4 days	Jan 18 '21	Jan 21 '21	
19		**Week 4**	**6 days?**	**Jan 25 '21**	**Feb 1 '21**	
20		Research Smartmesh amstermode starter kit	4 days	Jan 25 '21	Jan 28 '21	
21		Sensor spreadsheet	4 days	Jan 28 '21	Feb 2 '21	
22		Research vibration&water sensors	4 days	Jan 28 '21	Feb 2 '21	
23		Research Vmware&Emana	4 days	Jan 28 '21	Feb 2 '21	
24		Research GUI&Smartmesh intergration	4 days	Jan 28 '21	Feb 2 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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	

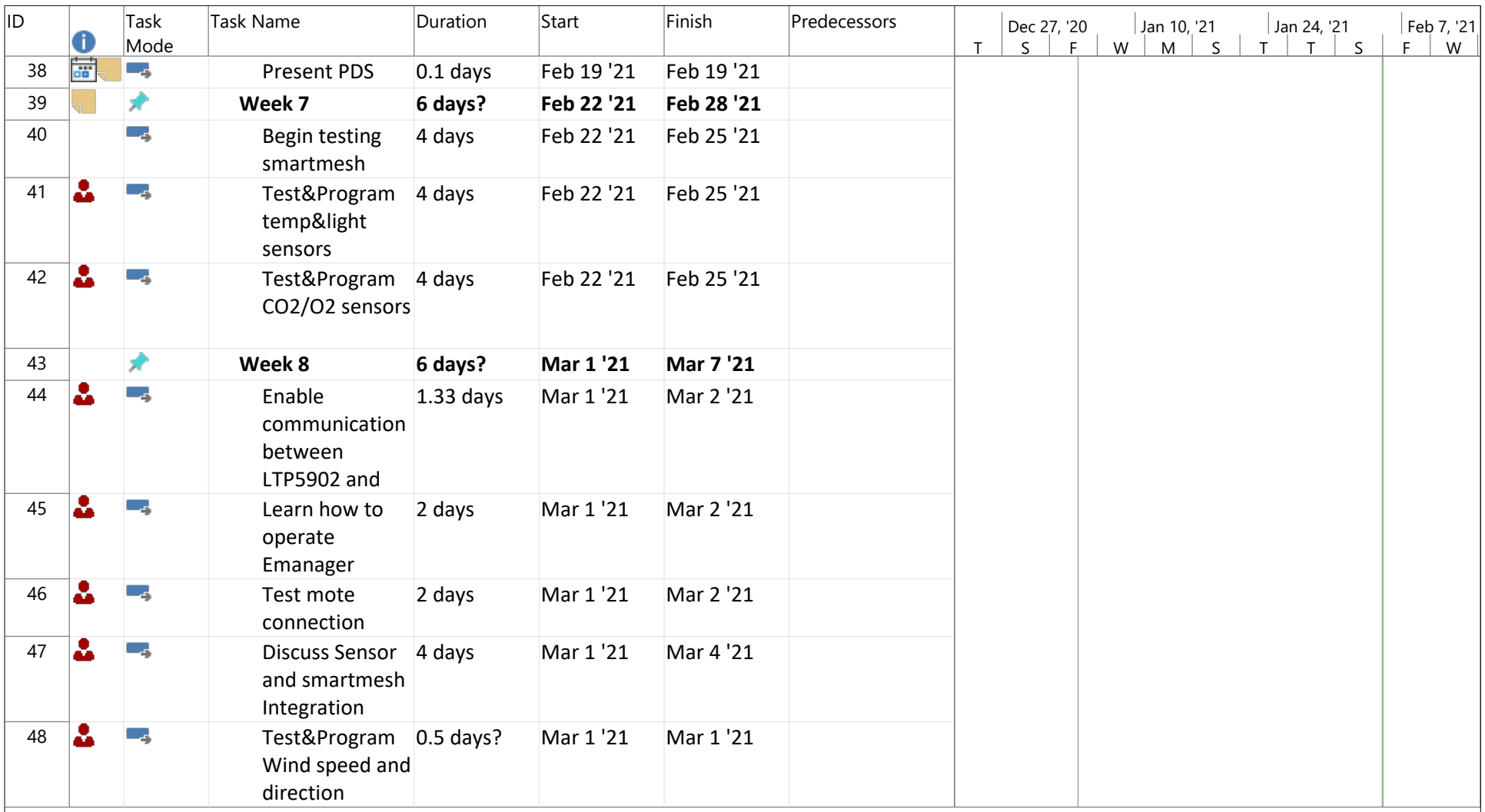
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
25		Finish Initial BoM	2 days	Jan 25 '21	Jan 26 '21	
26		Submit Project schedule	0.5 days?	Feb 5 '21	Feb 5 '21	
27		Submit PDS	1 day?	Feb 5 '21	Feb 5 '21	
28		**Week 5**	**6 days?**	**Feb 8 '21**	**Feb 14 '21**	
29		Order sensors	4 days	Feb 8 '21	Feb 11 '21	
30		Order Smartmesh module	4 days	Feb 8 '21	Feb 11 '21	
31		Research Emanager interface	4 days	Feb 8 '21	Feb 11 '21	
32		Review&revise project design specifications	4 days	Feb 8 '21	Feb 11 '21	
33		**Week 6**	**6 days?**	**Feb 15 '21**	**Feb 21 '21**	
34		Research PCB schematic	4 days	Feb 15 '21	Feb 18 '21	
35		Test&Program huminity	4 days	Feb 15 '21	Feb 18 '21	
36		Test&Program Water contact sensors	4 days	Feb 15 '21	Feb 18 '21	
37		Research Smartmesh programming	4 days	Feb 15 '21	Feb 18 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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	

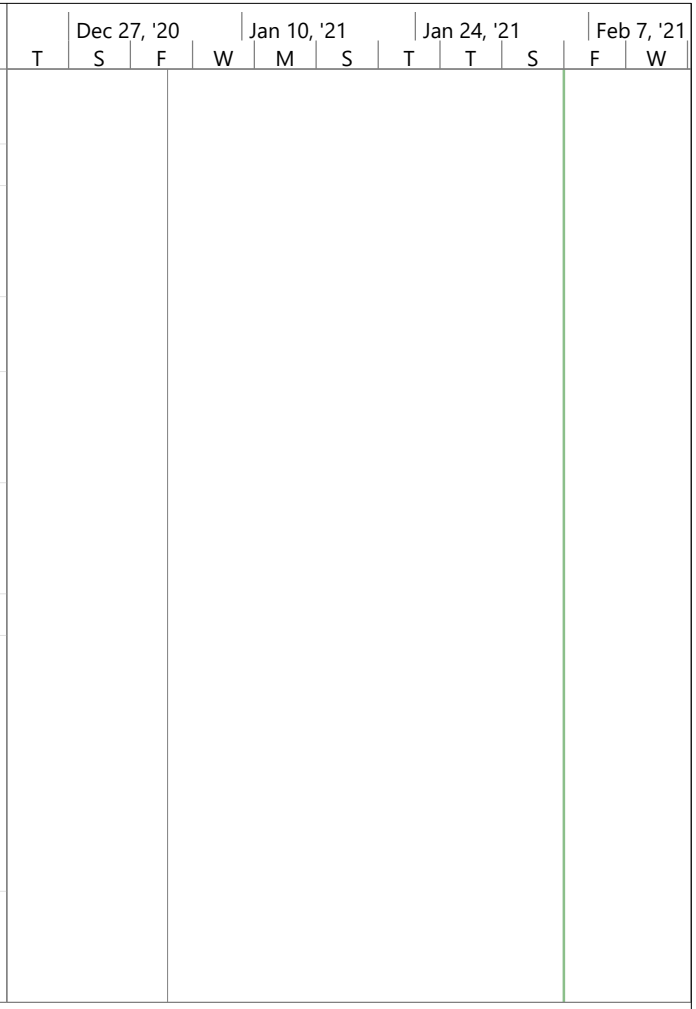
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
38		Present PDS	0.1 days	Feb 19 '21	Feb 19 '21	
39		**Week 7**	**6 days?**	**Feb 22 '21**	**Feb 28 '21**	
40		Begin testing smartmesh	4 days	Feb 22 '21	Feb 25 '21	
41		Test&Program temp&light sensors	4 days	Feb 22 '21	Feb 25 '21	
42		Test&Program CO2/O2 sensors	4 days	Feb 22 '21	Feb 25 '21	
43		**Week 8**	**6 days?**	**Mar 1 '21**	**Mar 7 '21**	
44		Enable communication between LTP5902 and	1.33 days	Mar 1 '21	Mar 2 '21	
45		Learn how to operate Emanager	2 days	Mar 1 '21	Mar 2 '21	
46		Test mote connection	2 days	Mar 1 '21	Mar 2 '21	
47		Discuss Sensor and smartmesh Integration	4 days	Mar 1 '21	Mar 4 '21	
48		Test&Program Wind speed and direction	0.5 days?	Mar 1 '21	Mar 1 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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

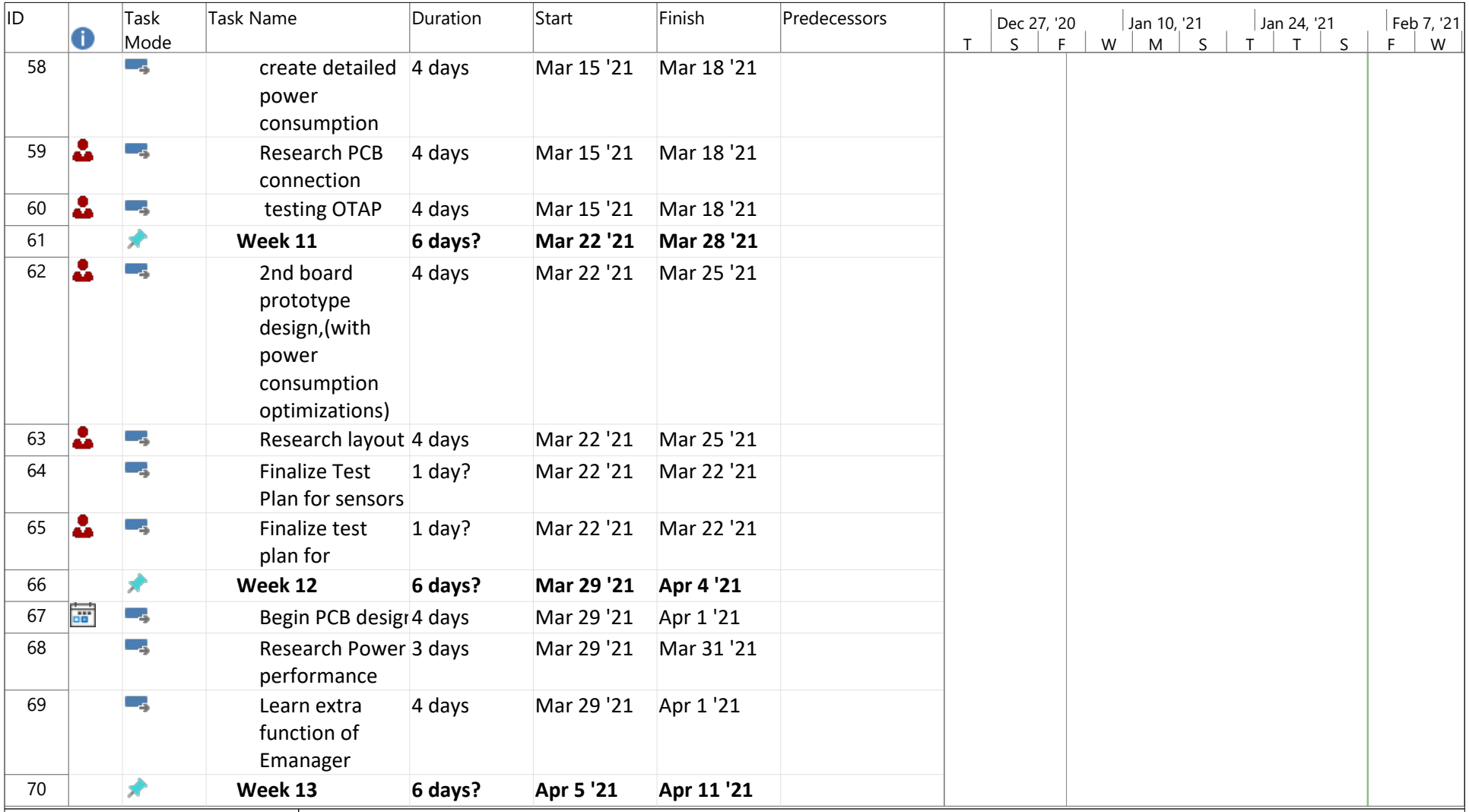
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
49		Test&Program Vibration	4 days	Mar 1 '21	Mar 4 '21	
50		**Week 9**	**6 days?**	**Mar 8 '21**	**Mar 14 '21**	
51		Put together basic breadboard	4 days	Mar 8 '21	Mar 11 '21	
52		Begin hand-sketch	4 days	Mar 8 '21	Mar 11 '21	
53		Integrate senor programming w/ SmartMesh	4 days	Mar 8 '21	Mar 11 '21	
54		Configure Smartmesh E-manager	4 days	Mar 8 '21	Mar 11 '21	
55		**Week 10**	**6 days?**	**Mar 15 '21**	**Mar 21 '21**	
56		Test extra coding capabilities on functioning breadboard prototype(switcl master and	4 days	Mar 15 '21	Mar 18 '21	
57		Test power consumption on a scope	1.33 days	Mar 15 '21	Mar 16 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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		

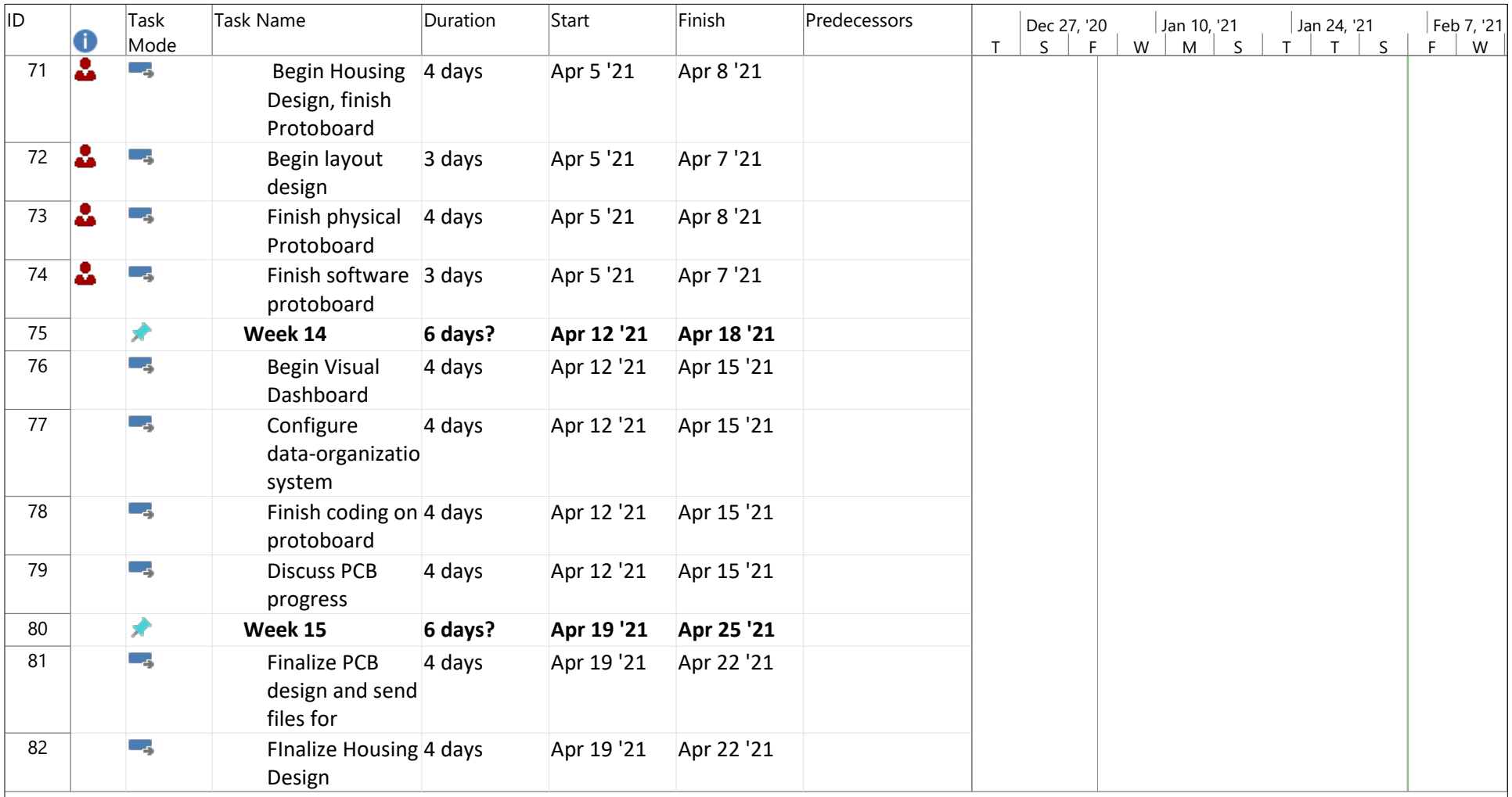
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
58		create detailed power consumption	4 days	Mar 15 '21	Mar 18 '21	
59		Research PCB connection	4 days	Mar 15 '21	Mar 18 '21	
60		testing OTAP	4 days	Mar 15 '21	Mar 18 '21	
61		**Week 11**	**6 days?**	**Mar 22 '21**	**Mar 28 '21**	
62		2nd board prototype design,(with power consumption optimizations)	4 days	Mar 22 '21	Mar 25 '21	
63		Research layout	4 days	Mar 22 '21	Mar 25 '21	
64		Finalize Test Plan for sensors	1 day?	Mar 22 '21	Mar 22 '21	
65		Finalize test plan for	1 day?	Mar 22 '21	Mar 22 '21	
66		**Week 12**	**6 days?**	**Mar 29 '21**	**Apr 4 '21**	
67		Begin PCB desigr	4 days	Mar 29 '21	Apr 1 '21	
68		Research Power performance	3 days	Mar 29 '21	Mar 31 '21	
69		Learn extra function of Emanager	4 days	Mar 29 '21	Apr 1 '21	
70		**Week 13**	**6 days?**	**Apr 5 '21**	**Apr 11 '21**	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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

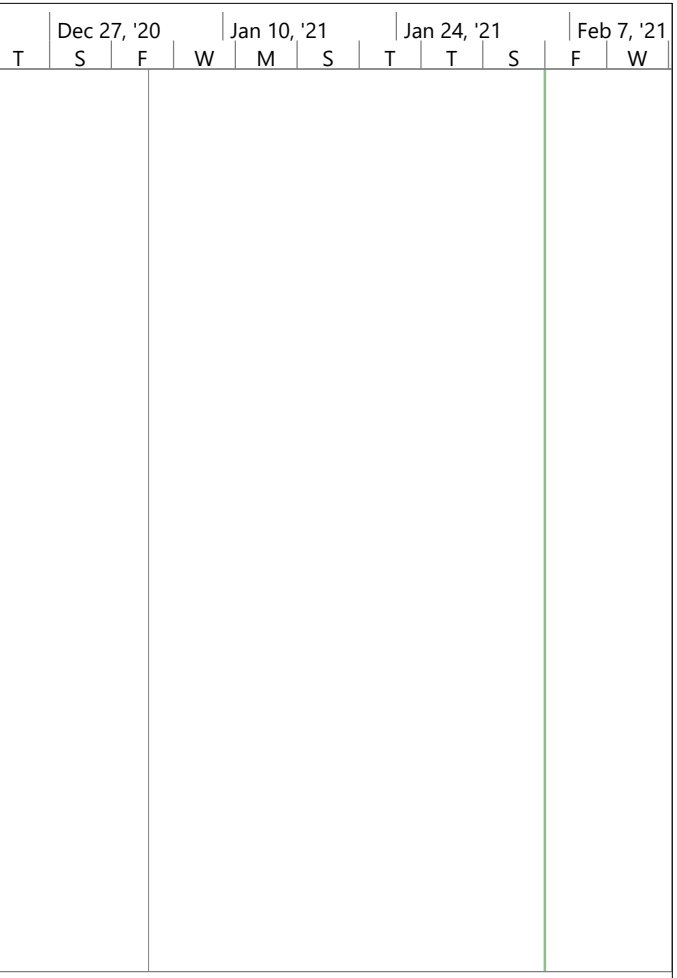
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
71		Begin Housing Design, finish Protoboard	4 days	Apr 5 '21	Apr 8 '21	
72		Begin layout design	3 days	Apr 5 '21	Apr 7 '21	
73		Finish physical Protoboard	4 days	Apr 5 '21	Apr 8 '21	
74		Finish software protoboard	3 days	Apr 5 '21	Apr 7 '21	
75		**Week 14**	**6 days?**	**Apr 12 '21**	**Apr 18 '21**	
76		Begin Visual Dashboard	4 days	Apr 12 '21	Apr 15 '21	
77		Configure data-organizatio system	4 days	Apr 12 '21	Apr 15 '21	
78		Finish coding on protoboard	4 days	Apr 12 '21	Apr 15 '21	
79		Discuss PCB progress	4 days	Apr 12 '21	Apr 15 '21	
80		**Week 15**	**6 days?**	**Apr 19 '21**	**Apr 25 '21**	
81		Finalize PCB design and send files for	4 days	Apr 19 '21	Apr 22 '21	
82		FInalize Housing Design	4 days	Apr 19 '21	Apr 22 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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

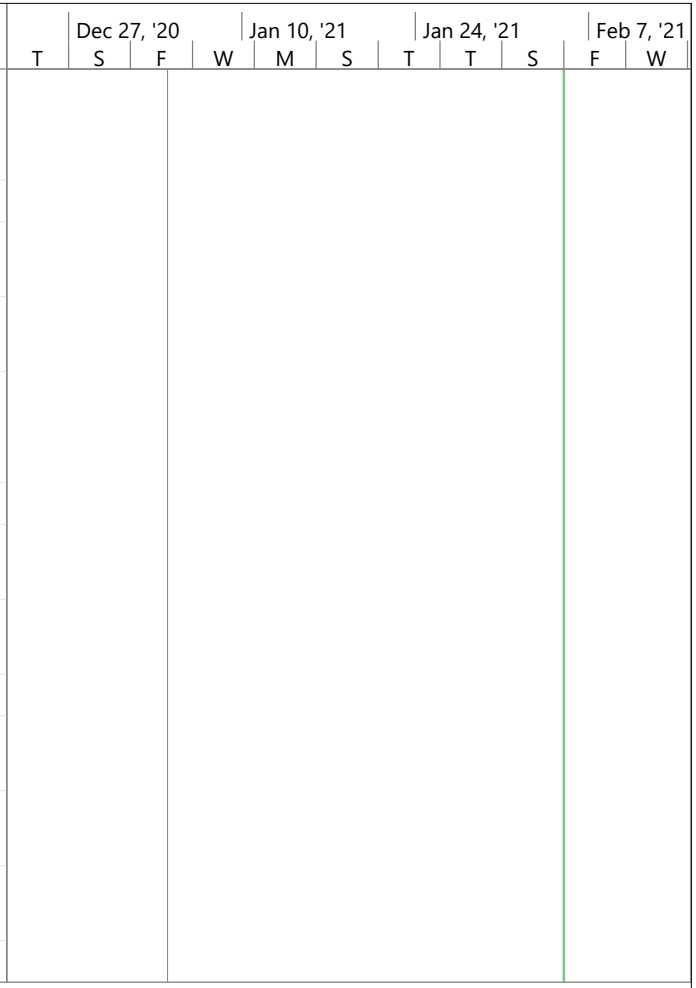
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
83		Finalize Power Source	4 days	Apr 19 '21	Apr 22 '21	
84		Discuss Documentation progress	1 day?	Apr 19 '21	Apr 19 '21	
85		Finish final BoM	4 days	Apr 19 '21	Apr 22 '21	
86		**Week 16**	**6 days?**	**Apr 26 '21**	**May 2 '21**	
87		Allow for shipping time for PCB	4 days	Apr 26 '21	Apr 29 '21	
88		Calculate theorical power consumption of 2nd propotype system	4 days	Apr 26 '21	Apr 29 '21	
89		Build 2nd prototype in real	4 days	Apr 26 '21	Apr 29 '21	
90		**Week 17**	**6 days?**	**May 3 '21**	**May 9 '21**	
91		begin Final Documentation	4 days	May 3 '21	May 6 '21	
92		Test power consumption of 2nd propotype	4 days	May 3 '21	May 6 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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

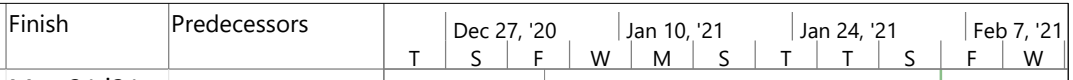
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
93		Analysis difference between theory	4 days	May 3 '21	May 6 '21	
94		**Week 18**	**6 days?**	**May 10 '21**	**May 16 '21**	
95		PCB received, began soldering	4 days	May 10 '21	May 13 '21	
96		Documentation work	4 days	May 10 '21	May 13 '21	
97		Configure software to max	4 days	May 10 '21	May 13 '21	
98		**Week 19**	**6 days?**	**May 17 '21**	**May 23 '21**	
99		final testing and	4 days	May 17 '21	May 20 '21	
100		Begin Final Presentation	4 days	May 17 '21	May 20 '21	
101		**Week 20**	**6 days?**	**May 24 '21**	**May 30 '21**	
102		final bug fix and polishing,	4 days	May 24 '21	May 27 '21	
103		Create Operations	4 days	May 24 '21	May 27 '21	
104		Begin Final Project Report	4 days	May 24 '21	May 27 '21	
105		**Week 21**	**6 days?**	**May 31 '21**	**Jun 6 '21**	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

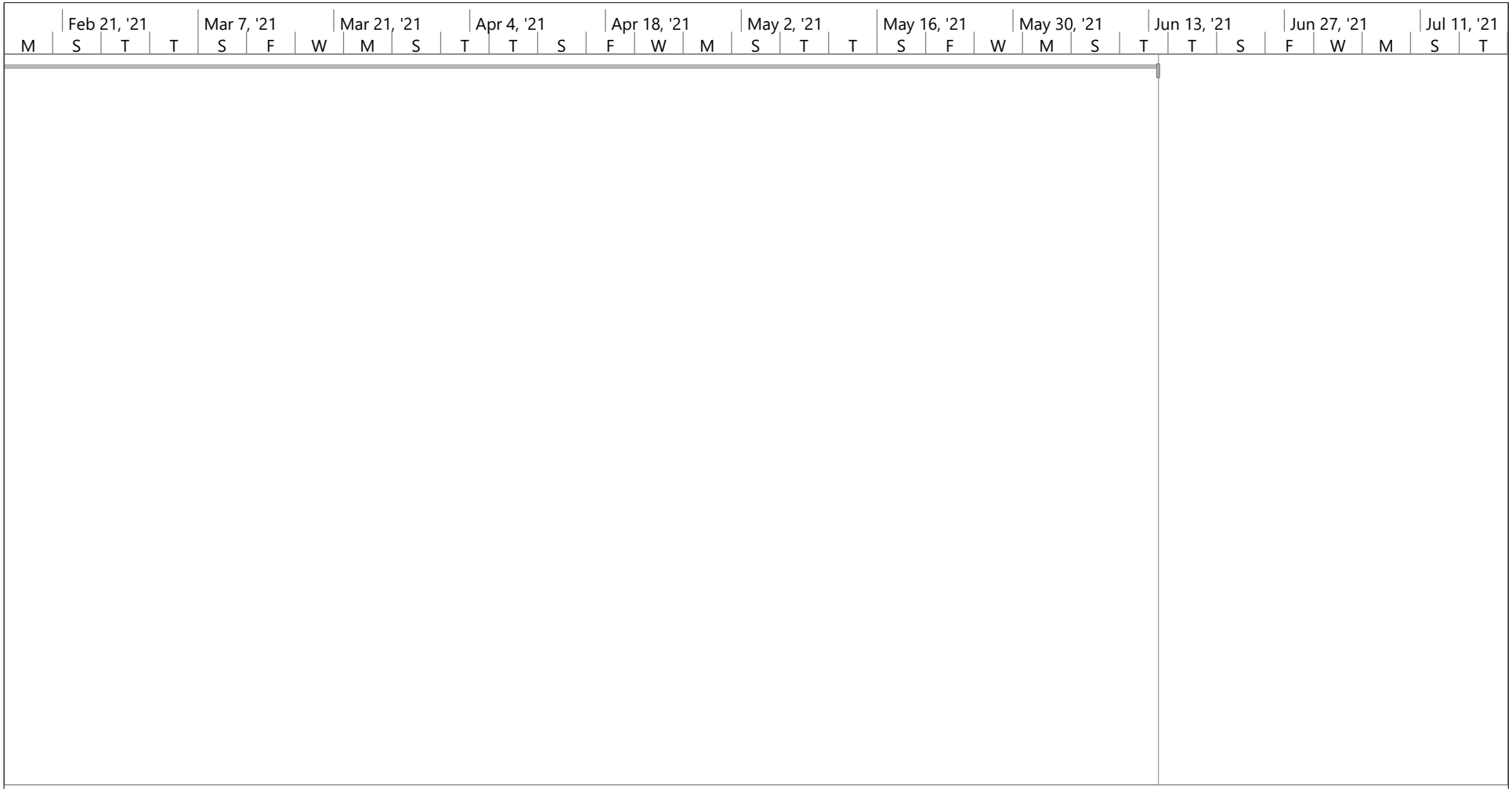
Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
106		Finished with presentation(slic Practice presentations	1 day?	May 31 '21	May 31 '21	
107		Practice presentations	1 day?	May 31 '21	May 31 '21	
108		Discuss Final Documentation	1 day?	May 31 '21	May 31 '21	
109		**Week 22**	**6 days?**	**Jun 7 '21**	**Jun 13 '21**	
110		Presentations (Completed with project, presentation), Final Project	1 day?	Jun 13 '21	Jun 13 '21	
111		Second Team evaluation	1 day?	Jun 13 '21	Jun 13 '21	



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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		

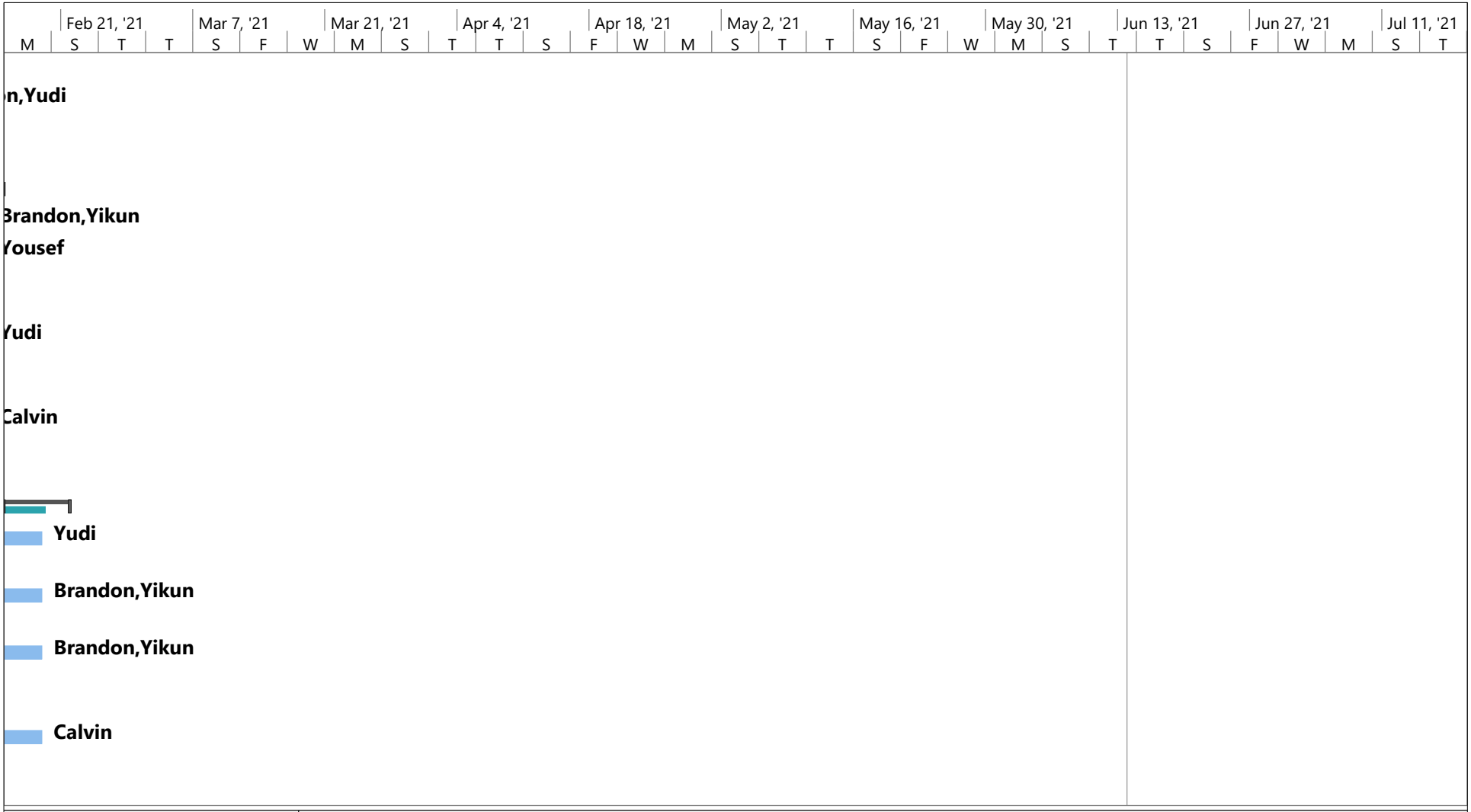


Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			

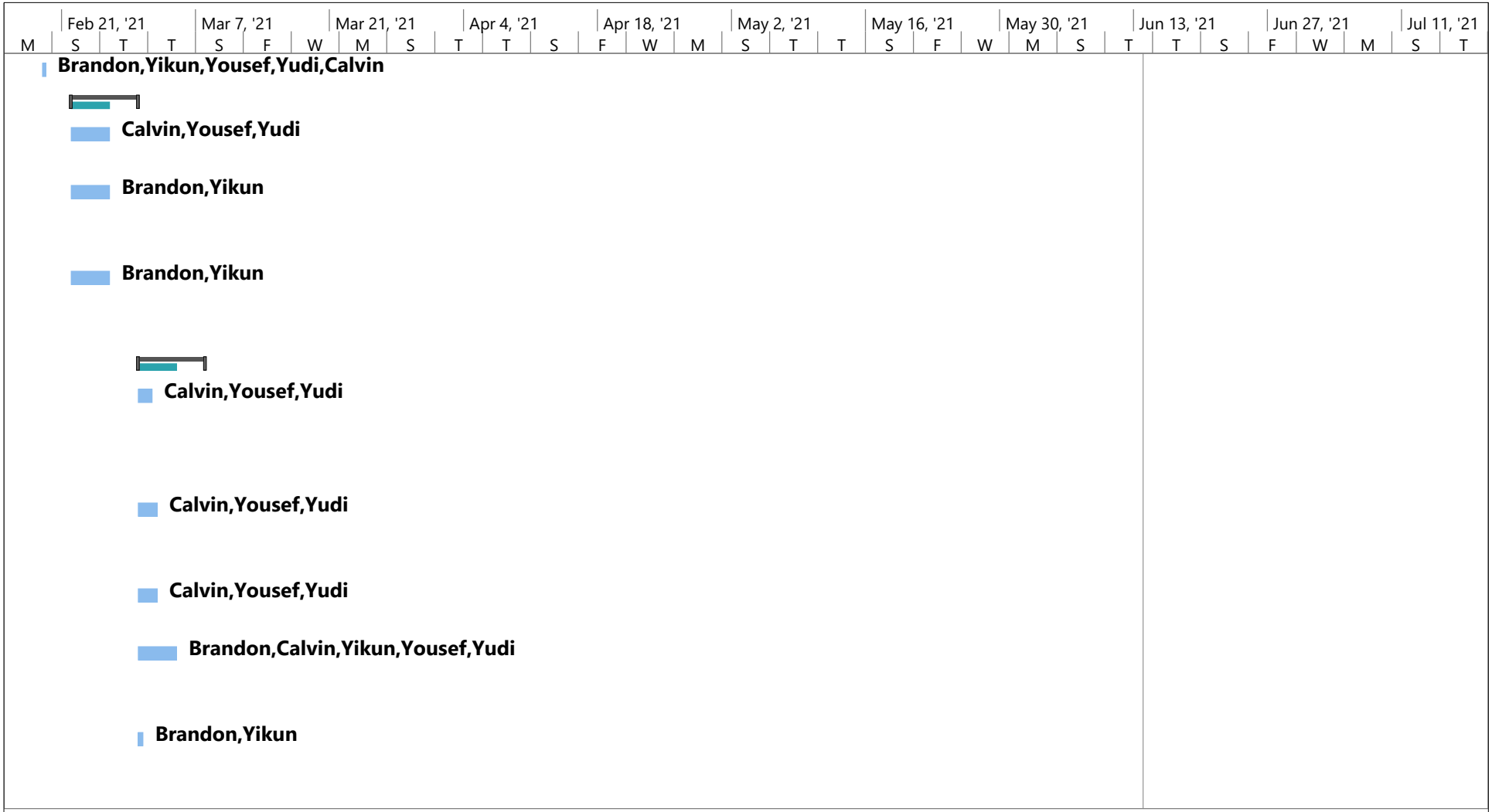
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



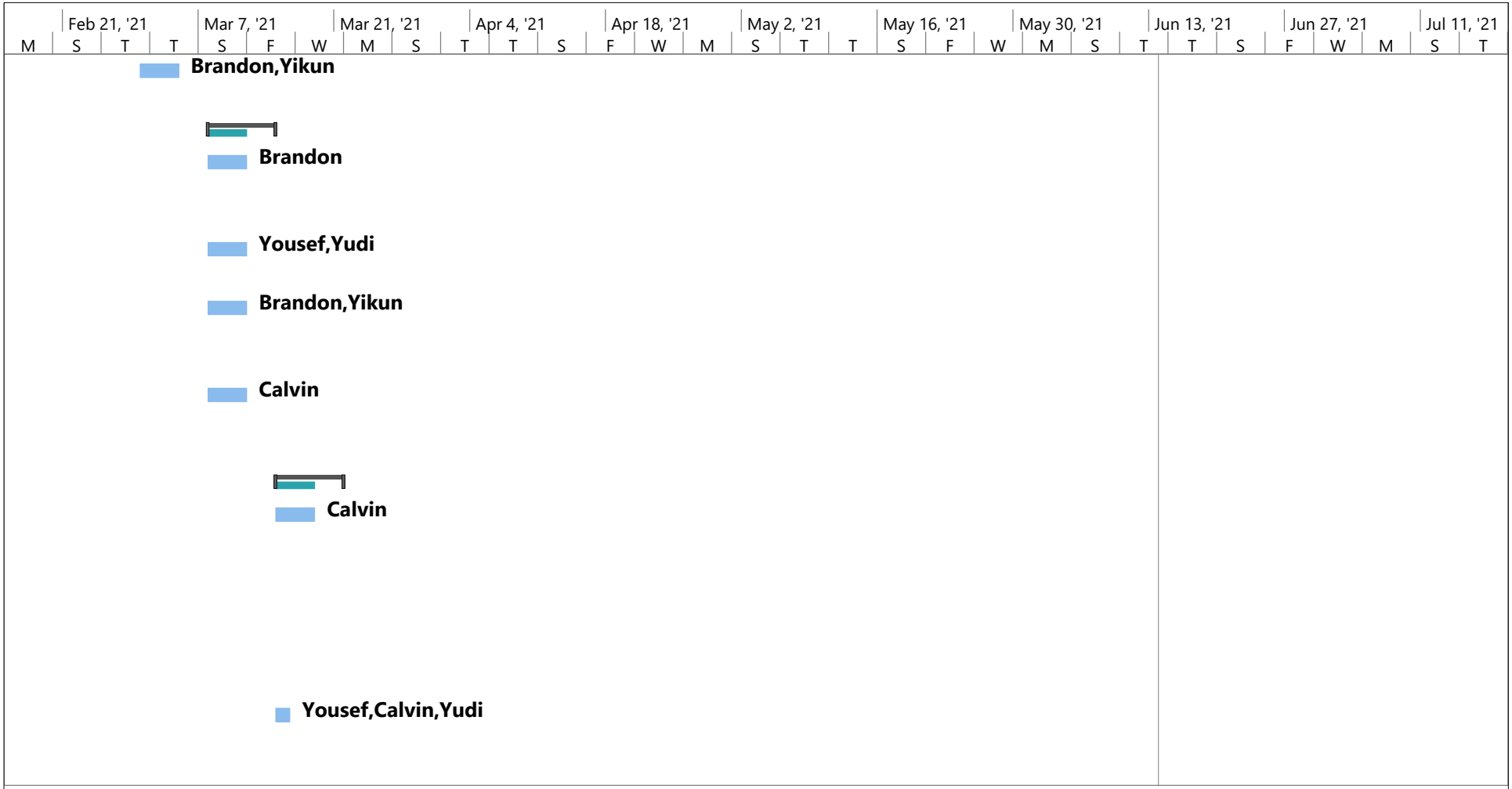
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



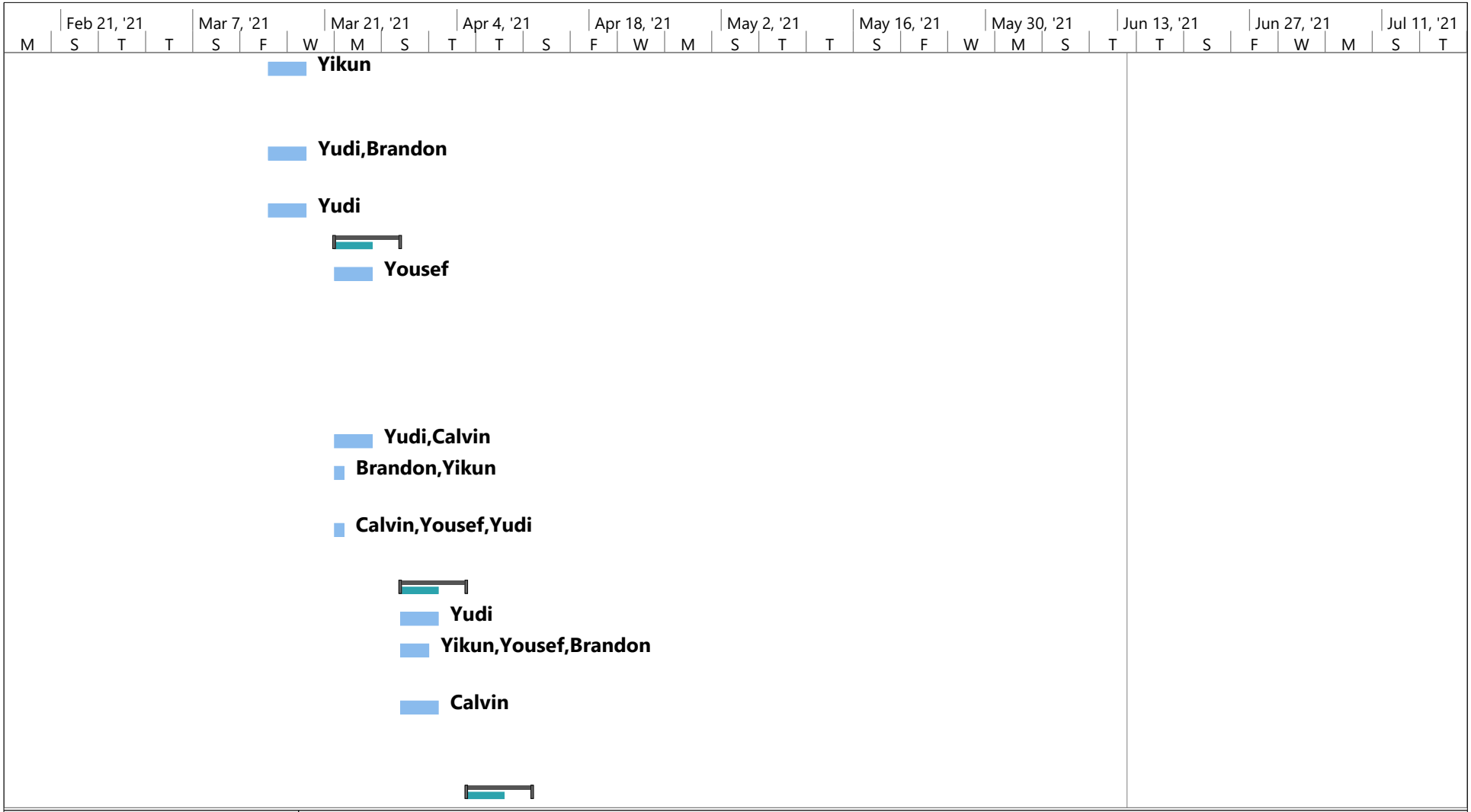
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



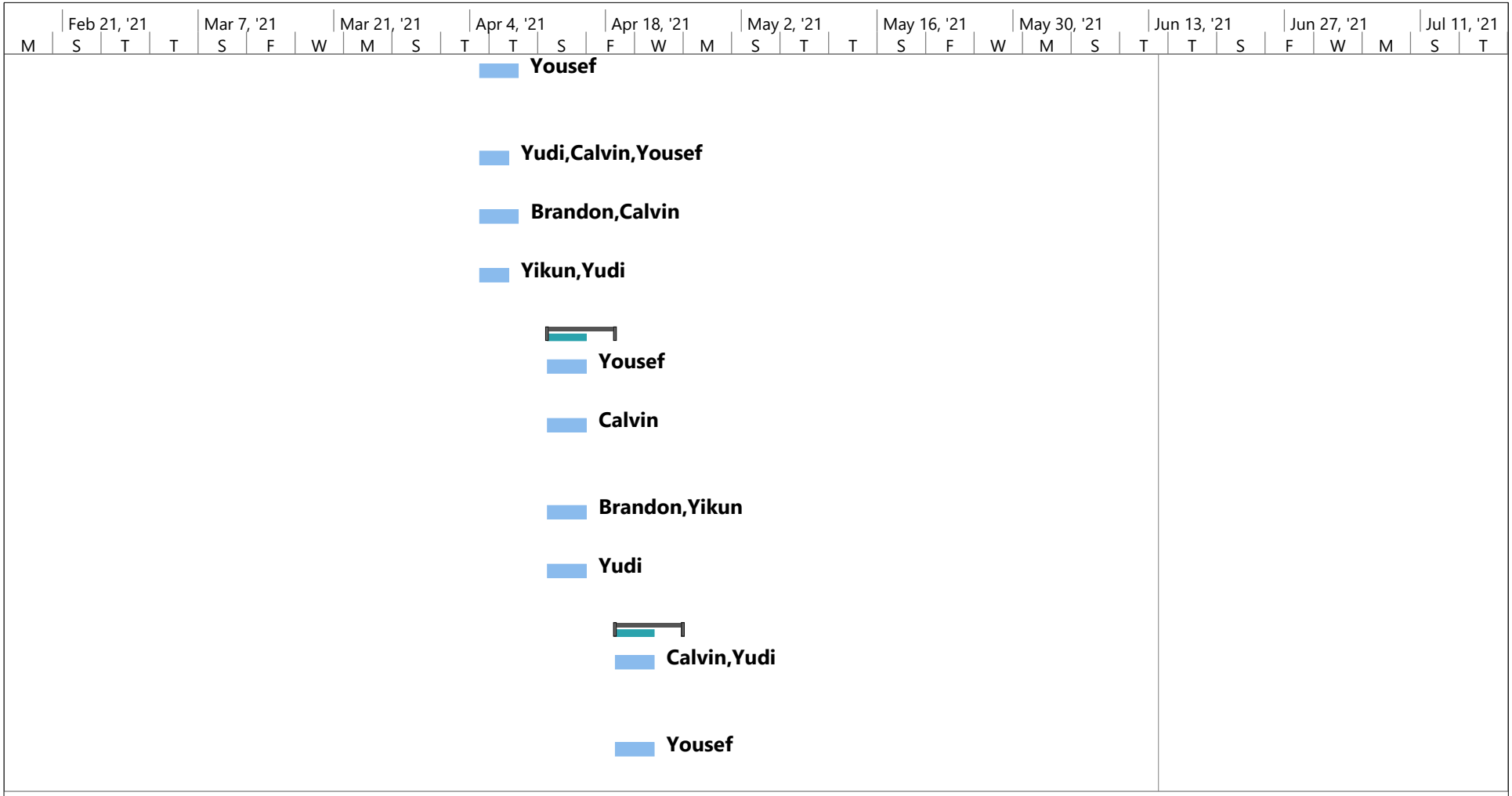
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



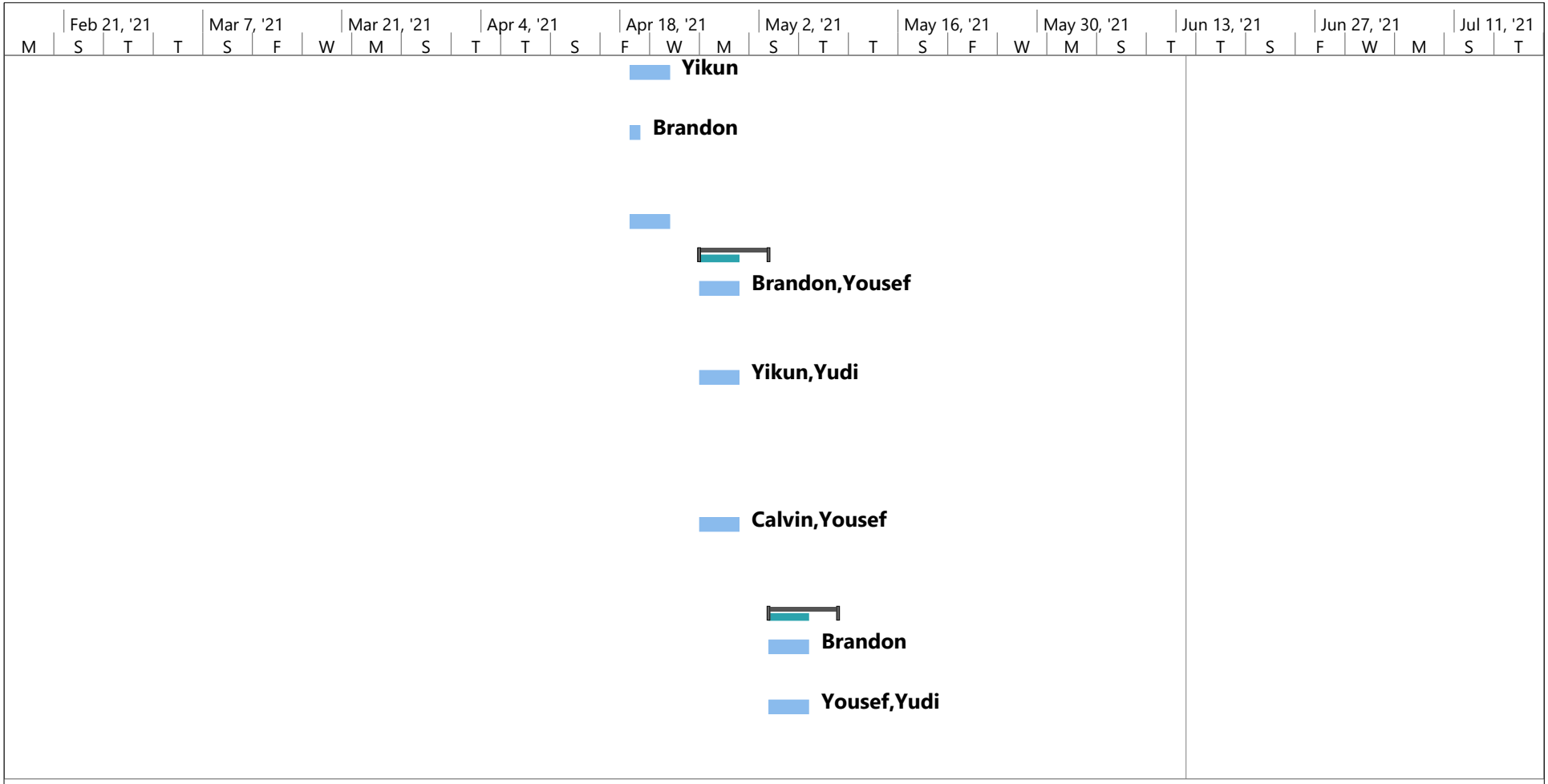
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



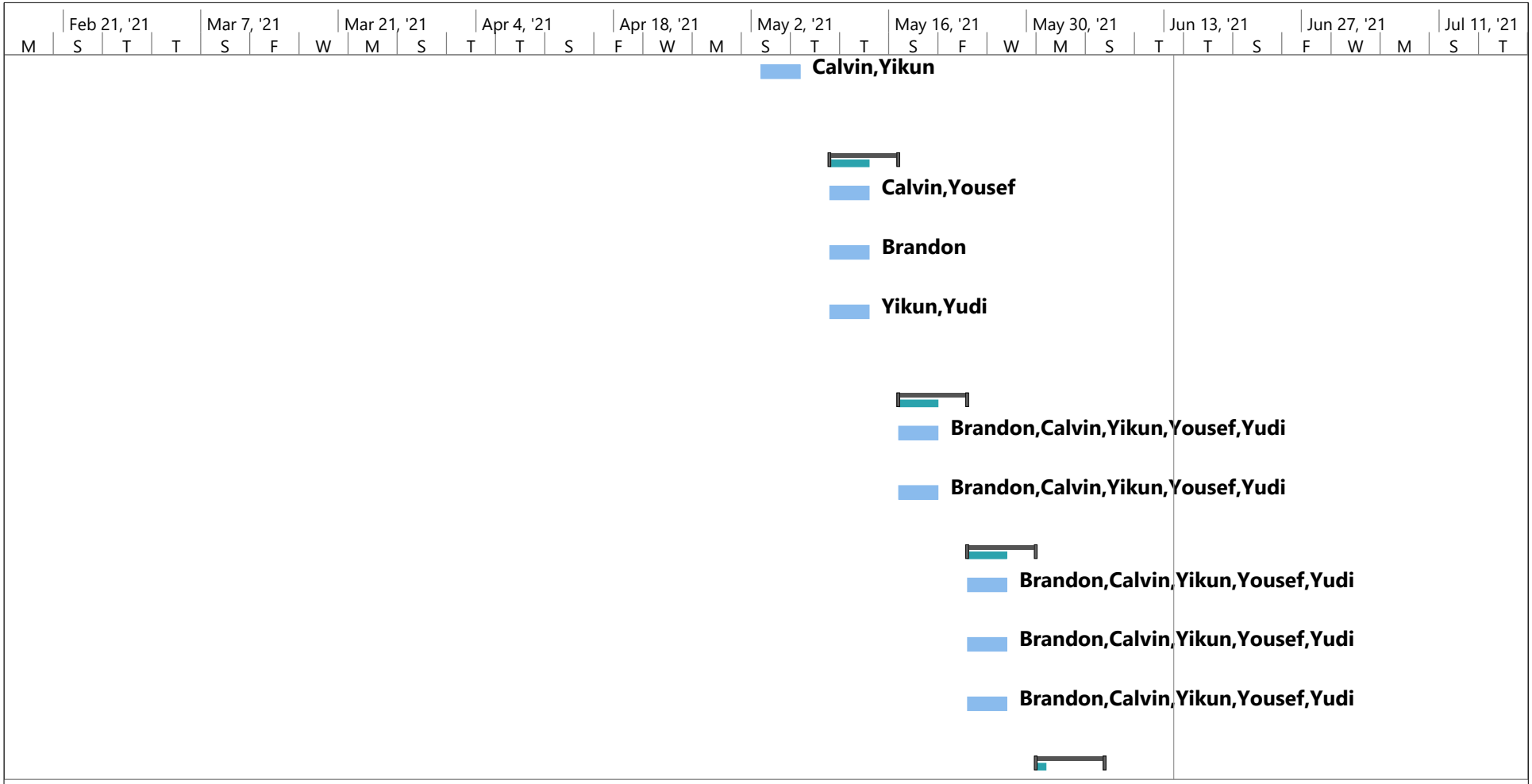
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



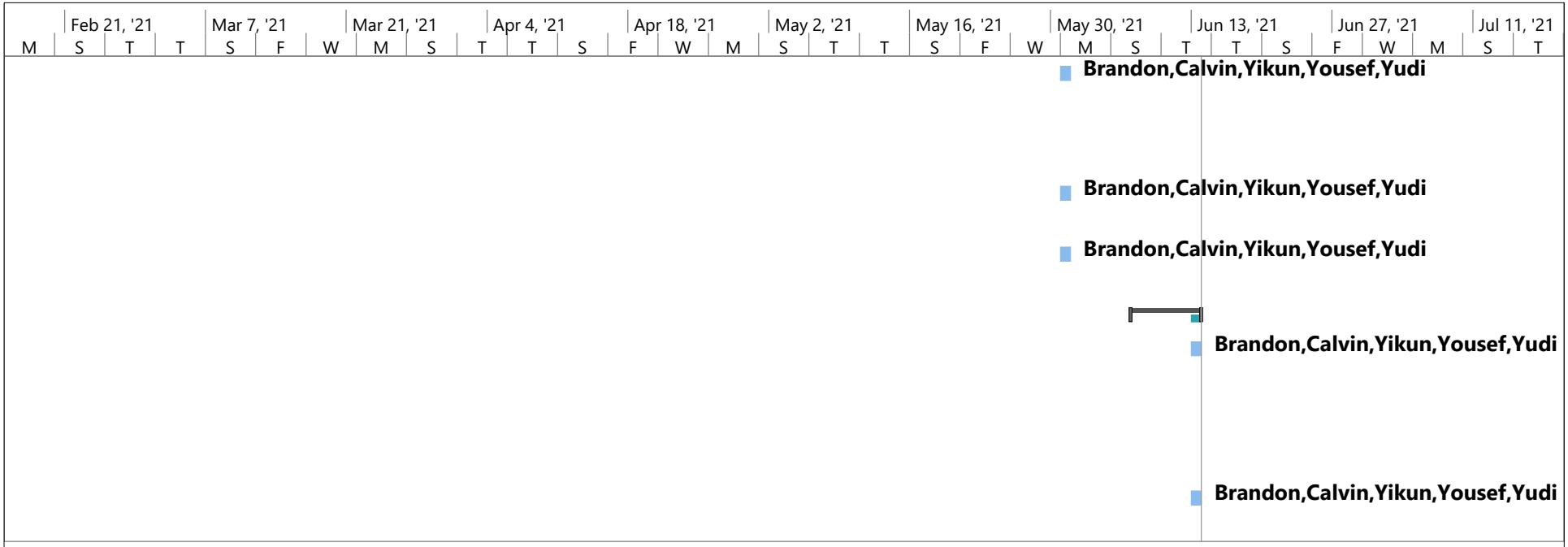
Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			



Project: Sensor Suite - Team 20
Date: Feb 5 '21

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			