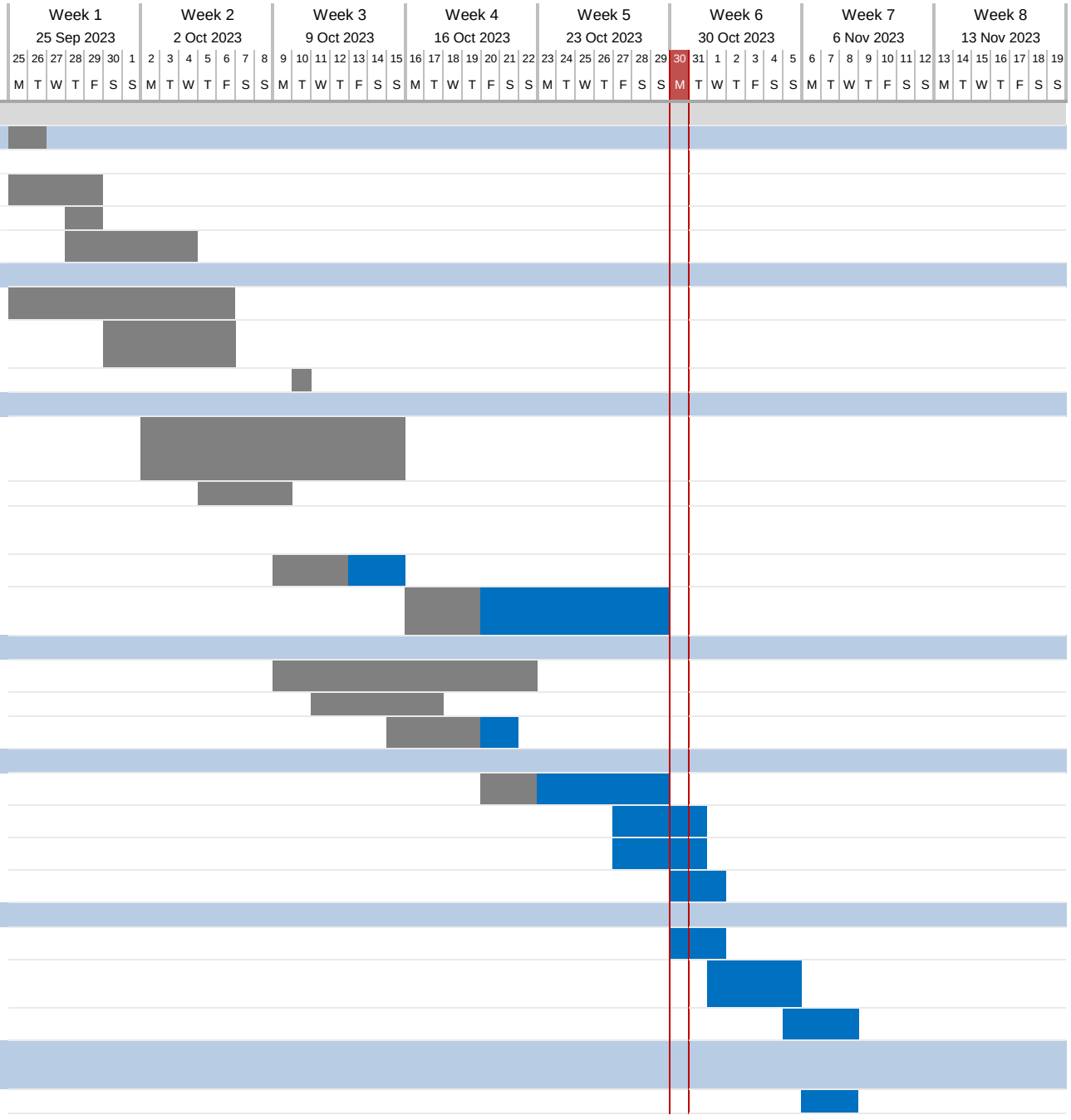
openFloat V1 Project Schedule

Project Start Date: 9/27/2023 (Wednesday) | Display Week: 1 | Project Lead: Caleb Flaim

WBS	TASK	LEAD	START	END	DAYS	% DONE	WORK DAYS
1	**Float Devolpment Stage**			-			-
1.1	Concept development	[Name]	Mon 9/25/23	Tue 9/26/23	2	100%	2
1.1.1	Propose Ideas						
1.1.2	Develop general science questions		Mon 9/25/23	Fri 9/29/23	5	100%	5
1.1.3	Settle on idea		Thu 9/28/23	Fri 9/29/23	2	100%	2
1.1.4	Brainstorm general design of project		Thu 9/28/23	Wed 10/04/23	7	100%	5
1.2	Find and order parts						
1.2.1	Figure out variables to measure		Mon 9/25/23	Fri 10/06/23	12	100%	10
1.2.2	Determine sensors for measuring above variables		Sat 9/30/23	Fri 10/06/23	7	100%	5
1.2.3	Order parts		Tue 10/10/23	Tue 10/10/23	1	100%	1
1.3	Background Research						
1.3.1	General literature/youtube review for project tech components		Mon 10/02/23	Sun 10/15/23	14	100%	10
1.3.2	How do floats work?		Thu 10/05/23	Mon 10/09/23	5	100%	3
1.3.3	Learn about ways to change a floats volume		Wed 2/14/18	Fri 2/16/18	3	100%	3
1.3.4	Determine best float coding structure		Mon 10/09/23	Sun 10/15/23	7	70%	5
1.3.5	Learn about state machines and how to code one		Mon 10/16/23	Sun 10/29/23	14	30%	10
1.4	Electronics design						
1.4.1	Determine preliminary wiring		Mon 10/09/23	Sun 10/22/23	14	100%	10
1.4.2	Read sensor/controler datasheets		Wed 10/11/23	Tue 10/17/23	7	100%	5
1.4.3	Write/find test code for sensors		Sun 10/15/23	Sat 10/21/23	7	80%	5
1.5	Electronics build						
1.5.1	Build electronics prototype		Fri 10/20/23	Sun 10/29/23	10	30%	6
1.5.2	Test sensor functionality		Fri 10/27/23	Tue 10/31/23	5	0%	3
1.5.3	Test data telemetry and range		Fri 10/27/23	Tue 10/31/23	5	0%	3
1.5.4	Sanity check coding to verify functionality		Mon 10/30/23	Wed 11/01/23	3	0%	3
1.6	General programming						
1.6.1	Read sensor values and write to SD card		Mon 10/30/23	Wed 11/01/23	3	0%	3
1.6.2	Send data files over Radio to "basestation" controller		Wed 11/01/23	Sun 11/05/23	5	0%	3
1.6.3	Simulate float profile sequence (If time)		Sun 11/05/23	Wed 11/08/23	4	0%	3
1.7	Float testng and deployment without profiling cabability						
1.7.1	Test drifter in test tank		Mon 11/06/23	Wed 11/08/23	3	0%	3



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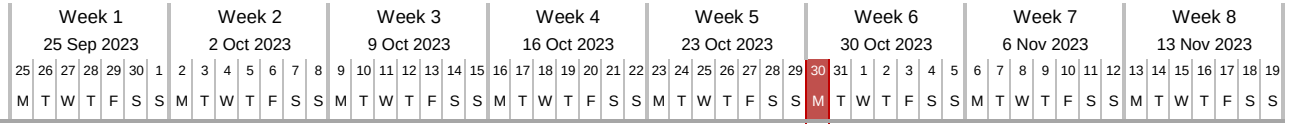
1.7.2	Overnight test in water		Tue 11/07/23	Wed 11/08/23	2	0%	2
1.7.3	Deploy float prototype near Shillshole		Fri 11/10/23	Fri 11/10/23	1	0%	1
1.8	Buoyancy engine design						
1.8.1	Brainstorm designs to talk to Trevor about		Mon 10/23/23	Sun 11/05/23	14	0%	10
1.8.2	Research moving gaskets and seals		Fri 10/27/23	Tue 10/31/23	5	0%	3
1.8.3	Meet with Trevor to finalize design		Mon 10/30/23	Fri 11/03/23	5	0%	5
1.9	Buoyancy engine build						
1.9.1	Begin building VBD system		Sat 11/04/23	Fri 11/17/23	14	0%	10
1.9.2	Hit snaggs		Wed 11/08/23	Sat 11/11/23	4	0%	3
1.9.3	Figure out snaggs		Thu 11/09/23	Wed 11/15/23	7	0%	5
1.9.4	Finish VBD		Sat 11/18/23	Mon 11/20/23	3	0%	1
1.10	Float assembly						
1.10.1	Attach VBD to float		Mon 11/20/23	Wed 11/22/23	3	0%	3
1.10.2	Program VBD to integrate with existing drifter code		Tue 11/21/23	Thu 11/23/23	3	0%	3
1.10.3	Verify sensing and buoyancy control systems work together		Fri 11/24/23	Sun 11/26/23	3	0%	1
1.11	Final float testing and deployment						
1.12	Overnight tests in test tank		Mon 11/27/23	Sun 12/03/23	7	0%	5
1.12.1	Ensure float can, at a minimum, broadcast GPS position over radio		Mon 11/27/23	Sun 12/03/23	7	0%	5
1.13	Deployment in Colvos Passage		Tue 12/05/23	Tue 12/05/23	1	0%	1
2	**Winter break**			-			-
2.1	finals and break		Wed 12/13/23	Wed 1/03/24	22	0%	16
3	**Data analysis stage**			-			-
3.1	Make basic profile plots from float data		Wed 1/03/24	Sun 1/07/24	5	0%	3
3.2	Make basic profile plots from seaglider data		Wed 1/03/24	Sun 1/07/24	5	0%	3
3.3	Numerically compared difference in values between float and glider data		Fri 1/05/24	Thu 1/11/24	7	0%	5
3.4	Come up with a metric for determing how good the float data re relative to the glider data		Sun 1/07/24	Thu 1/11/24	5	0%	4
3.4.1	Learn needed statistics		Sun 1/07/24	Thu 1/11/24	5	0%	4
3.5	Make comparison plots for float and glider data		Tue 1/09/24	Sat 1/13/24	5	0%	4
3.6	Make transect plots from float and glider data		Thu 1/11/24	Mon 1/15/24	5	0%	3



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3.7	Make engineering plots of float performance		Sat 1/13/24	Wed 1/17/24	5	0%	3
4	**Paper writing stage**			-			-
4.1	Follow ocean 444 assignment deadlines		Wed 1/03/24	Tue 3/12/24	70	0%	50

Week 1							Week 2							Week 3							Week 4							Week 5							Week 6							Week 7							Week 8						
25 Sep 2023							2 Oct 2023							9 Oct 2023							16 Oct 2023							23 Oct 2023							30 Oct 2023							6 Nov 2023							13 Nov 2023						
25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S