

SAE Aero Regular Class

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WBS		Project Start Date		9/1/2025 (Monday)		Display Week		1		Week 1					Week 2					Week 3					Week 4					Week 5					Week 6					Week 7					Week 8									
		Project Lead		William Alcorn						1 Sep 2025					8 Sep 2025					15 Sep 2025					22 Sep 2025					29 Sep 2025					6 Oct 2025					13 Oct 2025					20 Oct 2025									
										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			
TASK		LEAD		START		END		DAYS		% DONE		WORK DAYS																																										
1 Capstone 1 Specific Deliverables																																																						
1.1	Presentation #1	Will	Tue 9/02/25	Mon 9/15/25	14	100%	10																																															
1.1.1	QFD Creation	Dom	Sat 9/06/25	Fri 9/12/25	7	100%	5																																															
1.1.2	Background & Benchmarking Research	All	Mon 9/08/25	Fri 9/12/25	5	100%	5																																															
1.1.3	Literature Review	All	Thu 9/04/25	Fri 9/12/25	9	100%	7																																															
1.1.4	Mathematical Modeling	Tylee	Mon 9/08/25	Fri 9/12/25	5	100%	5																																															
1.1.5	Gantt Chart Creation	Gavin	Sun 9/07/25	Sat 9/20/25	14	100%	10																																															
1.1.6	Anticipated Budget & Fundraising	Tyler	Mon 9/08/25	Fri 9/12/25	5	100%	5																																															
1.2	Glider Prototype	Gavin+Dom	Fri 9/19/25	Sun 10/05/25	17	100%	11																																															
1.2.1	Rough Airfoil design, begin adding controls	Gavin	Thu 9/25/25	Sun 10/05/25	11	100%	7																																															
1.3	Presentation #2	Will	Wed 9/17/25	Tue 10/07/25	21	100%	15																																															
1.3.1	Black Box Model	Gavin	Sat 9/20/25	Fri 9/26/25	7	100%	5																																															
1.3.2	Concept Generations	All	Tue 9/16/25	Sun 9/21/25	6	100%	4																																															
1.3.3	Engineering Calculations	Tylee	Sat 9/20/25	Sun 9/28/25	9	100%	5																																															
1.3.4	Concept Evaluations	All	Sun 9/28/25	Wed 10/01/25	4	100%	3																																															
1.3.5	Rough CAD Model	Dom	Wed 10/01/25	Tue 10/07/25	7	100%	5																																															
1.3.6	Estimated Budget/BoM/Fundraising	Tyler	Thu 9/25/25	Fri 10/03/25	9	100%	7																																															
1.4	Report #1	Will	Sun 10/05/25	Sat 10/18/25	14	100%	10																																															
1.4.1	HoQ (House of Quality)	Dom	Fri 10/03/25	Tue 10/14/25	12	100%	8																																															
1.4.2	Functional Decomposition Chart	Gavin	Mon 9/29/25	Tue 10/14/25	16	100%	12																																															
1.5	Flying Training	Tyler/Will	Fri 10/17/25	Thu 12/18/25	63	65%	45																																															
1.6	Website Check #1	Tylee	Sat 10/11/25	Fri 10/24/25	14	100%	10																																															
1.6.1	Active & Published Website	Tylee	Sat 10/18/25	Mon 10/20/25	3	100%	1																																															
1.6.2	Four Pages with at least minimal content	All	Thu 9/25/25	Wed 10/22/25	28	100%	20																																															
1.7	Presentation #3	Will	Wed 10/22/25	Tue 11/04/25	14	100%	10																																															
1.7.1	ERs and CRs	Tylee	Tue 10/14/25	Thu 10/23/25	10	100%	8																																															
1.7.2	High-quality top-level design	Dom	Tue 10/14/25	Thu 10/23/25	10	100%	8																																															
1.7.3	Flow Charts of design	Gavin	Tue 10/14/25	Mon 10/20/25	7	100%	5																																															
1.7.4	Part specifications and quantifiable metrics based on calculations	Gavin+Dom	Fri 10/17/25	Sun 10/26/25	10	100%	6																																															
1.7.5	FMEA	Gavin	Tue 10/21/25	Sun 11/02/25	13	100%	9																																															
1.8	1st Prototype Demo	Gavin	Tue 10/28/25	Mon 11/10/25	14	100%	10																																															
1.8.1	1 Physical Prototype	Gavin	Fri 9/26/25	Sun 11/09/25	45	100%	31																																															
1.8.1.1	1 to 1 Scale of final aircraft, no cargo or control surfaces	Gavin	Fri 9/26/25	Sun 11/09/25	45	100%	31																																															
1.8.2	1 Virtual Prototype	Gavin	Fri 10/03/25	Sun 11/09/25	38	100%	26																																															
1.8.2.1	ANSYS Fluent for Control Surfaces	Gavin	Fri 10/03/25	Sun 11/09/25	38	100%	26																																															
1.9	Report #2	Will	Tue 11/11/25	Mon 11/24/25	14	100%	10																																															
1.9.1	Updated HoQ (House of Quality)	Dom	Tue 11/11/25	Sat 11/22/25	12	100%	9																																															
1.9.2	Updated Functional Decomposition Chart	Gavin	Tue 11/11/25	Sat 11/22/25	12	100%	9																																															
1.10	2nd Prototype Demo	Gavin	Wed 11/19/25	Tue 12/02/25	14	50%	10																																															
1.10.1	1 Updated Physical Prototypes	Gavin	Mon 11/10/25	Sun 11/30/25	21	75%	15																																															
1.10.1.1	Low Fidelity prototype or several subsystem prototypes	Gavin	Mon 11/10/25	Sun 11/30/25	21	75%	15																																															
1.10.2	1 Updated Virtual Prototypes	Dom/Tyler	Mon 11/10/25	Sun 11/30/25	21	50%	15																																															
1.10.2.1	Complex modeling, motion studies, VR/AR simulations	Dom/Tyler	Mon 11/10/25	Sun 11/30/25	21	50%	15																																															
1.11	Final CAD and Final BOM	Dom/Tyler	Sat 11/22/25	Fri 12/05/25	14	60%	10																																															
1.12	Website Check #2	Tylee	Mon 10/27/25	Sat 12/06/25	41	70%	30																																															
1.12.1	Website up-to date all documents, gallery of prototypes	All	Mon 10/27/25	Fri 12/05/25	40	70%	30																																															
1.13	Project Management	Will	Thu 1/08/26	Mon 1/12/26	5	0%	3																																															
1.14	Engineering Model Summary	Dom	Mon 1/12/26	Fri 1/23/26	12	0%	10																																															
1.15	33% Build	Gavin	Mon 1/12/26	Tue 2/10/26	30	0%	22																																															

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