

Task /Subtasks	Job Position / Title						Total Hours
	SPM	SUP	PrE	HSS	EIT	INT	
Task 1: Research	2	0	4	3	8	0	17
1.1: Past Competition Teams	1	0	1	0	1	0	3
1.2: Competition Rules	1	0	3	3	1	0	8
1.3: Structural Systems	0	0	0	0	5	0	5
1.4: Material Availability	0	0	0	0	1	0	1
Task 2: Design Selection	2	3	6	0	8	0	19
2.1: Brainstorm Structural Systems	0	1	2	0	3	0	6
2.2: Viable Design Options	1	1	2	0	2	0	6
2.3: Select Design	1	1	2	0	3	0	7
Task 3: Final Structural Analysis & Design	5	0	54	0	76	0	135
3.1: Draft Framing Plan	0	0	2	0	2	0	4
3.2: Gravity Design	0	0	8	0	21	0	29
3.2.1: Roof Design	0	0	2	0	4	0	6
3.2.1: Second Floor Bearing Wall Design	0	0	2	0	6	0	8
3.2.3: Second Floor Design	0	0	2	0	6	0	8
3.2.4: First Floor Bearing Wall Design	0	0	2	0	5	0	7
3.3: Diaphragm Design	0	0	10	0	5	0	15
3.3.1: Calculate Diaphragm Forces	0	0	4	0	2	0	6
3.3.2: Select Diaphragm	0	0	2	0	1	0	3
3.3.3: Diaphragm Connection Design	0	0	4	0	2	0	6
3.4: Shear Wall Design	0	0	12	0	10	0	22
3.4.1: Shear Wall Forces	0	0	4	0	4	0	8
3.4.2: Shear Wall Parameters	0	0	4	0	4	0	8
3.4.3: Shear Wall Connection Design	0	0	4	0	2	0	6
3.5: Uplift Connection Design	1	0	3	0	6	0	10
3.6: Tiedown and Anchor Design	1	0	3	0	6	0	10
3.7: Cantilever Beam Design	0	0	2	0	4	0	6
3.7.1: Beam Member Selection	0	0	1	0	2	0	3
3.7.2: Overturning Stability Check	0	0	1	0	2	0	3
3.8: Final Calculation Packet	1	0	6	0	8	0	15
3.9: Final Structural Drawings	1	0	4	0	6	0	11
3.10: Building Information Model	1	0	4	0	8	0	13
Task 4: Pre-Competition Construction Phase	0	39	12	33	36	36	156
4.1: Material Procurement Phase	0	6	3	0	3	3	15
4.2: Prefabrication Phase	0	24	0	24	24	24	96
4.2.1: Wall Panel Prefab	0	15	0	15	15	15	60
4.2.2: Floor Panel Prefab	0	3	0	3	3	3	12
4.2.3: Roof Assembly Prefab	0	6	0	6	6	6	24
4.3: Mock Assembly & Practice	0	7	7	7	7	7	35
4.4: Transportation Preparation	0	2	2	2	2	2	10

Task 5: Competition Construction Process	0	5	5	5	5	5	25
5.1: 90-Minute Competition Construction	0	3	3	3	3	3	15
5.2: Deconstruction Phase	0	2	2	2	2	2	10
Task 6: Impact Assessment	2	0	4	0	6	0	12
6.1: Carbon Footprint Calculation	1	0	2	0	3	0	6
6.2: Triple Bottom Line Assessment	1	0	2	0	3	0	6
Task 7: Deliverables	11	10	32	6	30	3	92
7.1: Competition Deliverables	6	6	17	1	10	1	41
7.1.1: Intent & Eligibility Form	0	0	0	0	1	0	1
7.1.2: Ladder Safety Training	1	1	1	1	1	1	6
7.1.3: Phase 1A	1	0	4	0	4	0	9
7.1.4: Phase 1B	1	0	4	0	4	0	9
7.1.5: Phase 2 Presentation	1	2	2	0	0	0	5
7.1.6: Change Orders & Final Submittals	1	2	5	0	0	0	8
7.1.7: Phase 3 Electronic File	1	1	1	0	0	0	3
7.2: Capstone Deliverables	5	4	15	5	20	2	51
7.2.1: 30% Deliverable	1	0	3	1	4	0	9
7.2.2: 60% Deliverable	1	0	3	1	4	0	9
7.2.3: 90% Deliverable	1	0	3	1	4	0	9
7.2.4: Final Presentation	1	2	3	1	4	1	12
7.2.5: Final Report & Website	1	2	3	1	4	1	12
Task 8: Project Management	34	26	52	26	42	42	222
8.1: Team Coordination	10	10	36	10	36	36	138
8.2: Outreach & Volunteers	3	3	3	0	0	0	9
8.3: Safety Oversight & Training	3	3	3	10	3	3	25
8.4: Quality Control & Compliance	18	10	10	6	3	3	50
8.4.1: Mock Inspections	3	3	3	3	3	3	18
8.4.2: Drawings & Rules Review	12	4	4	2	0	0	22
8.4.3: Pre-Competition Structural Audit	3	3	3	1	0	0	10
Total Hours	SPM	SUP	PrE	HSS	EIT	INT	TOTAL
	56	83	169	73	211	86	678