

THE UNIVERSITY OF TEXAS AT AUSTIN  
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING  
3050 UNIVERSITY DRIVE  
AUSTIN, TEXAS 78712-1000  
TEL: 512/475-1000 FAX: 512/475-1000





Roller Coaster Data		
Time (s)	Position (m)	Velocity (m/s)
0	0	0
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60
7	70	70
8	80	80
9	90	90
10	100	100
11	110	110
12	120	120
13	130	130
14	140	140
15	150	150
16	160	160
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22	220	220
23	230	230
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32	320	320
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46	460	460
47	470	470
48	480	480
49	490	490
50	500	500
51	510	510
52	520	520
53	530	530
54	540	540
55	550	550
56	560	560
57	570	570
58	580	580
59	590	590
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61	610	610
62	620	620
63	630	630
64	640	640
65	650	650
66	660	660
67	670	670
68	680	680
69	690	690
70	700	700
71	710	710
72	720	720
73	730	730
74	740	740
75	750	750
76	760	760
77	770	770
78	780	780
79	790	790
80	800	800
81	810	810
82	820	820
83	830	830
84	840	840
85	850	850
86	860	860
87	870	870
88	880	880
89	890	890
90	900	900
91	910	910
92	920	920
93	930	930
94	940	940
95	950	950
96	960	960
97	970	970
98	980	980
99	990	990
100	1000	1000



TABLE 1			
Row	Col 1	Col 2	Col 3
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TABLE 1		
NO.	DESCRIPTION	UNIT
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100		



TABLE 1.1

Sl. No.	Parameter	Value	Unit
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99			
100			



MECHANISM ANALYSIS		
Mechanism	Input Link	Output Link
Vertical Pumpjack	Crank	Slider
Horizontal Pumpjack	Crank	Slider
Horizontal Pumpjack	Slider	Crank
Horizontal Pumpjack	Crank	Slider
Horizontal Pumpjack	Slider	Crank
Horizontal Pumpjack	Crank	Slider
Horizontal Pumpjack	Slider	Crank
Horizontal Pumpjack	Crank	Slider
Horizontal Pumpjack	Slider	Crank
Horizontal Pumpjack	Crank	Slider
Horizontal Pumpjack	Slider	Crank



ANATOMY OF A ZEBRA			
1	Ear	2	Mane
3	Body	4	Tail
5	Leg	6	Hoof
7	Mane	8	Body
9	Leg	10	Hoof
11	Mane	12	Body
13	Leg	14	Hoof
15	Mane	16	Body
17	Leg	18	Hoof
19	Mane	20	Body
21	Leg	22	Hoof
23	Mane	24	Body
25	Leg	26	Hoof
27	Mane	28	Body
29	Leg	30	Hoof
31	Mane	32	Body
33	Leg	34	Hoof
35	Mane	36	Body
37	Leg	38	Hoof
39	Mane	40	Body
41	Leg	42	Hoof
43	Mane	44	Body
45	Leg	46	Hoof
47	Mane	48	Body
49	Leg	50	Hoof
51	Mane	52	Body
53	Leg	54	Hoof
55	Mane	56	Body
57	Leg	58	Hoof
59	Mane	60	Body
61	Leg	62	Hoof
63	Mane	64	Body
65	Leg	66	Hoof
67	Mane	68	Body
69	Leg	70	Hoof
71	Mane	72	Body
73	Leg	74	Hoof
75	Mane	76	Body
77	Leg	78	Hoof
79	Mane	80	Body
81	Leg	82	Hoof
83	Mane	84	Body
85	Leg	86	Hoof
87	Mane	88	Body
89	Leg	90	Hoof
91	Mane	92	Body
93	Leg	94	Hoof
95	Mane	96	Body
97	Leg	98	Hoof
99	Mane	100	Body





Bones of the Human Skeleton			
Category	Bone Name	Location	
Skull	Frontal bone	Forehead	
	Parietal bone	Sides of the head	
	Temporal bone	Temples	
	Occipital bone	Back of the head	
	Sphenoid bone	Base of the skull	
	Ethmoid bone	Bridge of the nose	
	Mandible	Lower jaw	
	Maxilla	Upper jaw	
	Chest	Clavicle	Collarbone
		Scapula	Shoulder blade
		Humerus	Upper arm
		Radius	Forearm (lateral)
		Ulna	Forearm (medial)
		Carpals	Wrist
		Metacarpals	Hand
		Phalanges	Fingers
		Vertebrae	Spine
		Pelvis	Lower torso
		Femur	Thigh
		Tibia	Shin
	Fibula	Shin	



### TABLE 1

Year	Q1	Q2	Q3	Q4
2018	100	100	100	100
2019	100	100	100	100
2020	100	100	100	100
2021	100	100	100	100
2022	100	100	100	100
2023	100	100	100	100
2024	100	100	100	100
2025	100	100	100	100
2026	100	100	100	100
2027	100	100	100	100
2028	100	100	100	100
2029	100	100	100	100
2030	100	100	100	100
2031	100	100	100	100
2032	100	100	100	100
2033	100	100	100	100
2034	100	100	100	100
2035	100	100	100	100
2036	100	100	100	100
2037	100	100	100	100
2038	100	100	100	100
2039	100	100	100	100
2040	100	100	100	100
2041	100	100	100	100
2042	100	100	100	100
2043	100	100	100	100
2044	100	100	100	100
2045	100	100	100	100
2046	100	100	100	100
2047	100	100	100	100
2048	100	100	100	100
2049	100	100	100	100
2050	100	100	100	100



MICROSCOPE PARTS			
Part Name	Function	Location	Diagram Label
Eyepiece	Viewing lens	Top	1
Objective lens	Magnification	Middle	2
Stage	Specimen placement	Center	3
Base	Support	Bottom	4
Handle	Adjustment	Side	5
Coarse focus	Large movement	Side	6
Fine focus	Small movement	Side	7
Stage clips	Specimen holding	Stage	8
Condenser lens	Light focusing	Below stage	9
Revolving nosepiece	Objective switching	Center	10
Slide	Specimen carrier	Stage	11
Cover slip	Specimen protection	Slide	12
Light source	Illumination	Bottom	13
Aperture	Light control	Bottom	14
Field of view	Observation area	Center	15
Resolution	Detail clarity	Center	16
Magnification	Size increase	Center	17
Depth of field	Focus range	Center	18
Working distance	Specimen clearance	Center	19
Resolution limit	Detail threshold	Center	20
Resolution power	Detail capability	Center	21
Resolution distance	Detail spacing	Center	22
Resolution angle	Detail angle	Center	23
Resolution frequency	Detail rate	Center	24
Resolution speed	Detail rate	Center	25
Resolution time	Detail duration	Center	26
Resolution area	Detail range	Center	27
Resolution volume	Detail range	Center	28
Resolution mass	Detail range	Center	29
Resolution energy	Detail range	Center	30
Resolution power	Detail range	Center	31
Resolution flux	Detail range	Center	32
Resolution density	Detail range	Center	33
Resolution pressure	Detail range	Center	34
Resolution force	Detail range	Center	35
Resolution torque	Detail range	Center	36
Resolution moment	Detail range	Center	37
Resolution work	Detail range	Center	38
Resolution heat	Detail range	Center	39
Resolution energy	Detail range	Center	40
Resolution power	Detail range	Center	41
Resolution flux	Detail range	Center	42
Resolution density	Detail range	Center	43
Resolution pressure	Detail range	Center	44
Resolution force	Detail range	Center	45
Resolution torque	Detail range	Center	46
Resolution moment	Detail range	Center	47
Resolution work	Detail range	Center	48
Resolution heat	Detail range	Center	49
Resolution energy	Detail range	Center	50



SKELETON			
Part	Number	Color	Notes
Skull	1	Red	
Spine	1	Red	
Pelvis	1	Red	
Ribs	12		
Legs	2		
Arms	2		
Hands	2		
Feet	2		
Neck	1		
Shoulders	2		
Elbows	2		
Wrists	2		
Ankles	2		
Clavicles	2		
Stapes	2		
Mandibles	2		
Hyoid	1		
Scapulae	2		
Humeri	2		
Radius	2		
Ulna	2		
Metacarpals	20		
Phalanges	28		
Tarsals	14		
Metatarsals	14		
Phalanges	14		
Vertebrae	26		
Cervical	7		
Thoracic	12		
Lumbar	5		
Sacrum	1		
Coccyx	1		
Skull	1		
Hyoid	1		
Mandibles	2		
Stapes	2		
Clavicles	2		
Scapulae	2		
Humeri	2		
Radius	2		
Ulna	2		
Metacarpals	20		
Phalanges	28		
Tarsals	14		
Metatarsals	14		
Phalanges	14		
Vertebrae	26		
Cervical	7		
Thoracic	12		
Lumbar	5		
Sacrum	1		
Coccyx	1		
Skull	1		
Hyoid	1		
Mandibles	2		
Stapes	2		
Clavicles	2		
Scapulae	2		
Humeri	2		
Radius	2		
Ulna	2		
Metacarpals	20		
Phalanges	28		
Tarsals	14		
Metatarsals	14		
Phalanges	14		
Vertebrae	26		
Cervical	7		
Thoracic	12		
Lumbar	5		
Sacrum	1		
Coccyx	1		

NAME: \_\_\_\_\_



Face	Edges	Color
Front Face	Top-Left	Green
	Top-Right	Green
	Bottom-Left	Black
	Bottom-Right	Black
Back Face	Top-Left	Green
	Top-Right	Green
	Bottom-Left	Black
	Bottom-Right	Black
Vertical Edges	Front-Left	Green
	Front-Right	Green
	Back-Left	Green
	Back-Right	Green



Category	Item 1	Item 2	Item 3
Category 1	Item 1.1	Item 1.2	Item 1.3
Category 2	Item 2.1	Item 2.2	Item 2.3
Category 3	Item 3.1	Item 3.2	Item 3.3
Category 4	Item 4.1	Item 4.2	Item 4.3
Category 5	Item 5.1	Item 5.2	Item 5.3
Category 6	Item 6.1	Item 6.2	Item 6.3
Category 7	Item 7.1	Item 7.2	Item 7.3
Category 8	Item 8.1	Item 8.2	Item 8.3
Category 9	Item 9.1	Item 9.2	Item 9.3
Category 10	Item 10.1	Item 10.2	Item 10.3
Category 11	Item 11.1	Item 11.2	Item 11.3
Category 12	Item 12.1	Item 12.2	Item 12.3
Category 13	Item 13.1	Item 13.2	Item 13.3
Category 14	Item 14.1	Item 14.2	Item 14.3
Category 15	Item 15.1	Item 15.2	Item 15.3
Category 16	Item 16.1	Item 16.2	Item 16.3
Category 17	Item 17.1	Item 17.2	Item 17.3
Category 18	Item 18.1	Item 18.2	Item 18.3
Category 19	Item 19.1	Item 19.2	Item 19.3
Category 20	Item 20.1	Item 20.2	Item 20.3
Category 21	Item 21.1	Item 21.2	Item 21.3
Category 22	Item 22.1	Item 22.2	Item 22.3
Category 23	Item 23.1	Item 23.2	Item 23.3
Category 24	Item 24.1	Item 24.2	Item 24.3
Category 25	Item 25.1	Item 25.2	Item 25.3
Category 26	Item 26.1	Item 26.2	Item 26.3
Category 27	Item 27.1	Item 27.2	Item 27.3
Category 28	Item 28.1	Item 28.2	Item 28.3
Category 29	Item 29.1	Item 29.2	Item 29.3
Category 30	Item 30.1	Item 30.2	Item 30.3
Category 31	Item 31.1	Item 31.2	Item 31.3
Category 32	Item 32.1	Item 32.2	Item 32.3
Category 33	Item 33.1	Item 33.2	Item 33.3
Category 34	Item 34.1	Item 34.2	Item 34.3
Category 35	Item 35.1	Item 35.2	Item 35.3
Category 36	Item 36.1	Item 36.2	Item 36.3
Category 37	Item 37.1	Item 37.2	Item 37.3
Category 38	Item 38.1	Item 38.2	Item 38.3
Category 39	Item 39.1	Item 39.2	Item 39.3
Category 40	Item 40.1	Item 40.2	Item 40.3
Category 41	Item 41.1	Item 41.2	Item 41.3
Category 42	Item 42.1	Item 42.2	Item 42.3
Category 43	Item 43.1	Item 43.2	Item 43.3
Category 44	Item 44.1	Item 44.2	Item 44.3
Category 45	Item 45.1	Item 45.2	Item 45.3
Category 46	Item 46.1	Item 46.2	Item 46.3
Category 47	Item 47.1	Item 47.2	Item 47.3
Category 48	Item 48.1	Item 48.2	Item 48.3
Category 49	Item 49.1	Item 49.2	Item 49.3
Category 50	Item 50.1	Item 50.2	Item 50.3
Category 51	Item 51.1	Item 51.2	Item 51.3
Category 52	Item 52.1	Item 52.2	Item 52.3
Category 53	Item 53.1	Item 53.2	Item 53.3
Category 54	Item 54.1	Item 54.2	Item 54.3
Category 55	Item 55.1	Item 55.2	Item 55.3
Category 56	Item 56.1	Item 56.2	Item 56.3
Category 57	Item 57.1	Item 57.2	Item 57.3
Category 58	Item 58.1	Item 58.2	Item 58.3
Category 59	Item 59.1	Item 59.2	Item 59.3
Category 60	Item 60.1	Item 60.2	Item 60.3
Category 61	Item 61.1	Item 61.2	Item 61.3
Category 62	Item 62.1	Item 62.2	Item 62.3
Category 63	Item 63.1	Item 63.2	Item 63.3
Category 64	Item 64.1	Item 64.2	Item 64.3
Category 65	Item 65.1	Item 65.2	Item 65.3
Category 66	Item 66.1	Item 66.2	Item 66.3
Category 67	Item 67.1	Item 67.2	Item 67.3
Category 68	Item 68.1	Item 68.2	Item 68.3
Category 69	Item 69.1	Item 69.2	Item 69.3
Category 70	Item 70.1	Item 70.2	Item 70.3
Category 71	Item 71.1	Item 71.2	Item 71.3
Category 72	Item 72.1	Item 72.2	Item 72.3
Category 73	Item 73.1	Item 73.2	Item 73.3
Category 74	Item 74.1	Item 74.2	Item 74.3
Category 75	Item 75.1	Item 75.2	Item 75.3
Category 76	Item 76.1	Item 76.2	Item 76.3
Category 77	Item 77.1	Item 77.2	Item 77.3
Category 78	Item 78.1	Item 78.2	Item 78.3
Category 79	Item 79.1	Item 79.2	Item 79.3
Category 80	Item 80.1	Item 80.2	Item 80.3
Category 81	Item 81.1	Item 81.2	Item 81.3
Category 82	Item 82.1	Item 82.2	Item 82.3
Category 83	Item 83.1	Item 83.2	Item 83.3
Category 84	Item 84.1	Item 84.2	Item 84.3
Category 85	Item 85.1	Item 85.2	Item 85.3
Category 86	Item 86.1	Item 86.2	Item 86.3
Category 87	Item 87.1	Item 87.2	Item 87.3
Category 88	Item 88.1	Item 88.2	Item 88.3
Category 89	Item 89.1	Item 89.2	Item 89.3
Category 90	Item 90.1	Item 90.2	Item 90.3
Category 91	Item 91.1	Item 91.2	Item 91.3
Category 92	Item 92.1	Item 92.2	Item 92.3
Category 93	Item 93.1	Item 93.2	Item 93.3
Category 94	Item 94.1	Item 94.2	Item 94.3
Category 95	Item 95.1	Item 95.2	Item 95.3
Category 96	Item 96.1	Item 96.2	Item 96.3
Category 97	Item 97.1	Item 97.2	Item 97.3
Category 98	Item 98.1	Item 98.2	Item 98.3
Category 99	Item 99.1	Item 99.2	Item 99.3
Category 100	Item 100.1	Item 100.2	Item 100.3



### ASSEMBLY BOM

ITEM NO.	DESCRIPTION	QTY	UNIT



Bicycle Parts		
Part Name	Material	Quantity
Frame	Aluminum	1
Front Fork	Steel	1
Rear Fork	Steel	1
Headset	Steel	1
Seatpost	Aluminum	1
Saddle	Synthetic	1
Handlebars	Aluminum	1
Shifters	Aluminum	2
Brake Levers	Aluminum	2
Brake Pads	Carbon	4
Brake Ropes	Steel	2
Spokes	Steel	36
Rim Strips	Rubber	2
Hub Caps	Steel	2
Pedals	Aluminum	2
Chainrings	Steel	2
Cassette	Steel	1
Chain	Steel	1
Fenders	Aluminum	2
Knobs	Rubber	2
Stems	Aluminum	2
Seat	Aluminum	1
Wheels	Steel	2
Tools	Various	1
Accessories	Various	1
Total		





Figure 1: Schematic of the system architecture.

Component	Function	Input	Output
Input Module	Receives external data	Raw Data	Processed Data
Processing Unit	Handles core logic	Processed Data	Intermediate Results
Output Module	Generates final results	Intermediate Results	Final Output
Control System	Manages system flow	Control Signals	System Status
Storage Layer	Stores data and logs	Data Logs	Archived Data
Monitoring Interface	Provides system visibility	System Data	Visual Reports
Reporting Engine	Generates system reports	System Data	System Reports
Security Module	Ensures data integrity	Security Parameters	Security Logs
Integration Layer	Connects to external systems	External Data	Integrated Data
Configuration Manager	Handles system settings	Configuration Files	System Config
Logging Service	Records system events	System Events	Event Logs
Alerting System	Notifies of anomalies	Alert Conditions	Alert Notifications
Backup Module	Performs data backups	Backup Schedules	Backup Files
Recovery System	Restores system data	Backup Files	Restored Data
Performance Analyzer	Monitors system efficiency	Performance Metrics	Performance Reports
System Scheduler	Coordinates task execution	Scheduled Tasks	Task Execution
System Health Monitor	Checks system status	Health Checks	Health Status
System Update Manager	Handles software updates	Update Packages	Updated System
System Configuration Editor	Allows system adjustments	Configuration Parameters	Updated Config
System Audit Trail	Tracks system changes	System Changes	Audit Logs
System Compliance Checker	Ensures regulatory adherence	Compliance Rules	Compliance Status
System Backup Scheduler	Schedules automatic backups	Backup Schedules	Backup Execution
System Recovery Tester	Tests system recovery process	Recovery Scenarios	Recovery Test Results
System Performance Optimizer	Improves system efficiency	Performance Bottlenecks	Optimized System
System Security Auditor	Reviews system security	Security Audits	Security Audit Reports
System Integration Tester	Tests system integrations	Integration Scenarios	Integration Test Results
System Configuration Auditor	Verifies system settings	Configuration Audits	Configuration Audit Reports
System Health Reporter	Generates system health reports	System Health Data	System Health Reports
System Update Scheduler	Schedules system updates	Update Schedules	Update Execution
System Configuration Manager	Manages system settings	Configuration Parameters	System Config
System Audit Logger	Records system events	System Events	Audit Logs
System Compliance Auditor	Ensures regulatory adherence	Compliance Rules	Compliance Status
System Backup Scheduler	Schedules automatic backups	Backup Schedules	Backup Execution
System Recovery Tester	Tests system recovery process	Recovery Scenarios	Recovery Test Results
System Performance Optimizer	Improves system efficiency	Performance Bottlenecks	Optimized System
System Security Auditor	Reviews system security	Security Audits	Security Audit Reports
System Integration Tester	Tests system integrations	Integration Scenarios	Integration Test Results
System Configuration Auditor	Verifies system settings	Configuration Audits	Configuration Audit Reports
System Health Reporter	Generates system health reports	System Health Data	System Health Reports
System Update Scheduler	Schedules system updates	Update Schedules	Update Execution



## THE PROJECT PLAN

Task	Start Date	End Date	Duration
Task 1			
Task 2			
Task 3			
Task 4			
Task 5			
Task 6			
Task 7			
Task 8			
Task 9			
Task 10			
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Task 20			
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Task 24			
Task 25			
Task 26			
Task 27			
Task 28			
Task 29			
Task 30			









TABLE 1

Item No.	Description	Quantity	Unit	Material
1	Shaft	1	ft	Steel
2	Top Cap	1	pc	Aluminum
3	Support Arm	1	ft	Steel
4	Base Plate	1	sq ft	Steel
5	Fastener	10	pc	Steel
6	Bracket	1	pc	Aluminum
7	Seal	1	pc	Rubber
8	Washer	5	pc	Steel
9	Nut	5	pc	Steel
10	Pin	2	pc	Steel



### ASSEMBLY SEQUENCE

STEP	DESCRIPTION
1	Place the diamond-shaped top plate onto the central support.
2	Insert the central support into the rectangular frame.
3	Attach the horizontal bar to the side of the central support.
4	Insert the vertical rod into the top of the central support.
5	Attach the small circular component to the bottom of the vertical rod.
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TABLE 1		
Year	Value	Value
2010	100	100
2011	100	100
2012	100	100
2013	100	100
2014	100	100
2015	100	100
2016	100	100
2017	100	100
2018	100	100
2019	100	100
2020	100	100
2021	100	100
2022	100	100
2023	100	100
2024	100	100
2025	100	100
2026	100	100
2027	100	100
2028	100	100
2029	100	100
2030	100	100







TABLE 1			
NO.	DESCRIPTION	QTY.	UNIT
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