

University	University of Assuit
Competition Code	EVER V
Year	2024
No. #	27

Total Cost	\$18,421.59
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Line Num.	Area of Commodity	Asm/Prt #	Rev. Lvl.	Asm	Component	Description	Unit Cost	Quantity	Material Cost	Process Cost	Fastener Cost	Tooling Cost	Total Cost	Details Page Number
	Brake System	Assembly_ BR0101	AB	Part_BR01001	Pedal Box		\$266.90	1	46.48	40.44	0	180	\$266.90	
	Brake System		AB	Part_BR01002	Brake Pedal		\$97.30	1	18.55	18.77	0.96	60	\$97.30	
	Brake System		AB	BR01011	Master Cyilnder		\$80.00	1	80		0.96		\$80.00	
	Brake System		AB	BR01012	Lamp, Brake with Housing		\$20.00	1	40		0.48		\$20.00	
	Brake System	Assembly_ br0103	AB	BR_01003	Rear Disc		\$46.20	2	35	11.3	1.44	0	\$92.40	
	Brake System		AB	BR_01031	Brake Caliper		\$15.00	2	15		0.96	0	\$30.00	
	Brake System		AB	BR_01032	Brake Pads		\$40.00	4	40		0	0	\$160.00	
	Brake System	Assembly_br0102	AB	BR_01021	Front brake rotor		\$120.00	2	120		2.4	8	\$240.00	
	Brake System		AB	BR_01022	Brake Caliper		\$15.00	2	15		0.96		\$30.00	
	Brake System		AB	BR_01023	Brake Pads		\$40.00	4	40		0	0	\$160.00	
	Brake System	sub Assembly_BR0104	AB	BR_01041	brake hard line		\$9.00	0.3	30		38	8	\$2.70	
	Brake System		AB	BR_01042	hose rubber		\$8.00	0.16	50				\$1.28	
	Brake System		AB	BR_01043	fluit oil		\$5.00	0.25	20			8	\$1.25	
	Brake System		AB	BR_01044	Tee flare-flare		\$30.00	2	30				\$60.00	
	Brake System		AB	BR_01045	plug flare steel		\$8.00	2	8		3.3	8	\$16.00	
	Brake System		AB	BR_01046	Handbrake		\$3.00	2	3				\$6.00	
	Brake System		AB	BR_01047	banjo fitting steel		\$15.00	4	15				\$60.00	
	Brake System				Area Total				\$1,039.03	\$81.81	\$31.92	\$276.40	\$1,323.83	
	Motor & Drivetrain	Assembly_MO0201	AB	MO_02011	4KW Wheel Hub Motor	all details mentioned in DBR .	\$1,000.00	2	1000	0	0	0	\$2,000.00	
	Motor & Drivetrain		AB	MO_02012	ECU Assembly		\$640.00	2	640	0	0	0	\$1,280.00	
	Motor & Drivetrain		AB	MO_02013	main kill switch		\$30.00	1	30	0	0	0	\$30.00	
	Motor & Drivetrain		AB	MO_02014	Fan		\$10.00	1	10	0	0	0	\$10.00	
	Motor & Drivetrain		AB	MO_02015	Relay		\$5.00	1	5	0	0	0	\$5.00	
	Motor & Drivetrain		AB	MO_02016	precharge resistor		\$7.00	1	7	0	0	0	\$7.00	
	Motor & Drivetrain		AB	MO_02017	fuse		\$2.00	1	2	0	0	0	\$2.00	
	Motor & Drivetrain		AB	MO_02018	diode		\$5.00	0.004	5	0	0	0	\$0.02	



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	Motor & Drivetrain		AA				\$0.00						\$0.00	
	Motor & Drivetrain		AA				\$0.00						\$0.00	
	motor & Drivetrain				Area Total				\$4,021.02	\$2.04	\$20.40	\$0.00	\$4,034.22	
	Frame & Body	Assembly	AB	FR0301	chassis assembly		\$1,328.00	1	1208	38	82.02	0	\$1,328.00	
	Frame & Body	Part	AB	FR03007	Chassis with Brackets		\$1,552.98	1	1152.75	380.23	0	20	\$1,552.98	
	Frame & Body	Assembly	AB	FR0302	Door Of The Body Asembly		\$327.05	1	213	18.2	15.85	80	\$327.05	
	Frame & Body	Part	AB	FR03001	Doors		\$140.00	2	60	68	0	12	\$280.00	
	Frame & Body	Assembly	AB	FR0303	rear Panel+ EL Assembly		\$113.05	1	98.5	9.2	5.6	0	\$113.05	
	Frame & Body	Part	AB	FR03004	Rear Panel		\$307.85	1	147.85	130.75	0	29.25	\$307.85	
	Frame & Body	Part	AB	FR03002	Trunk		\$62.65	1	20.4	34	0	8.25	\$62.65	
	Frame & Body	Assembly	AB	FR0304	front Panel with bumper		\$10.00	1	\$6.24	2.7	1.14	0	\$10.00	
	Frame & Body	Part	AB	FR03005	hood		\$73.31	1	31.3	35.83	0	6.18	\$73.31	
	Frame & Body	Part	AB	FR03006	front Panel With Bumber		\$400.52	1	165	172.52	30	33	\$400.52	
	Frame & Body	Assembly	AB	FR0305	body with chassis	roof with chassis with windshield	\$270.10	1	242.65	25.94	1.51	0	\$270.10	
	Frame & Body	Part	AB	FR03003	roof		\$226.30	1	109.5	94.9	0	21.9	\$226.30	
	Frame & Body		AB				\$0.00	1	0	0	0	0		
	Frame & Body		AB		Shifter Cable / Linkage		\$0.00						\$0.00	
	Frame & Body				Area Total				\$3,515.19	\$1,078.27	\$136.12	\$222.58	\$4,951.81	
	Electrical	Assembly_	AB	EL0401	POWERTRAIN (batteries/dc-dc converters )		\$3,222.64	1	3064	10.12	147.92	0	\$3,222.64	
	Electrical	Assembly_	AB	EL0402	Dash panel electronics		\$222.17	1	217.53	0	4.64	0	\$222.17	
	Electrical	Assembly_	AB	EL0403	Vehicle measurements system		\$213.94	1	213.94	0	0	0	\$213.94	
	Electrical	Assmebly_	AB	EL0404	lighting and horn system		\$294.80	1	288.2	0	6.6	0	\$294.80	
	Electrical		AA				\$0.00			0		0	\$0.00	
	Electrical		AA				\$0.00						\$0.00	
	Electrical		AA				\$0.00						\$0.00	
	Electrical		AA				\$0.00						\$0.00	

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	Electrical		AA				\$0.00						\$0.00	
	Electrical		AA				\$0.00						\$0.00	
	Electrical		AA				\$0.00						\$0.00	
	Electrical		AA				\$0.00						\$0.00	
	Instruments & Wiring				Area Total				\$3,783.67	\$10.12	\$159.16	\$0.00	\$3,953.55	
	Miscellaneous, Fit & Finish	ASM-03001	AA		Driver Safety Pack		\$40.00	1	40				\$40.00	
	Miscellaneous, Fit & Finish		AA		hook		\$30.00	2	30				\$60.00	
	Miscellaneous, Fit & Finish		AA		Heat Barrier		\$20.00	1	20				\$20.00	
	Miscellaneous, Fit & Finish		AA		Paint		\$90.00	3	90				\$270.00	
	Miscellaneous, Fit & Finish		AA		Seat		\$100.00	1	100				\$100.00	
	Miscellaneous, Fit & Finish		AA		Mirrors (See 3.4.3.2)		\$0.00						\$0.00	
	Miscellaneous, Fit & Finish		AA				\$0.00						\$0.00	
	Miscellaneous, Fit & Finish		AA				\$0.00						\$0.00	
	Miscellaneous, Fit & Finish				Area Total				\$490.00	\$0.00	\$0.00	\$0.00	\$490.00	
	Steering System	Assembly_ST0401	AB	ST04006	upper_column	Upper_steering assem	\$53.25	1	\$45.50	\$7.75	\$0.00	\$0.00	\$53.25	
	Steering System		AB	ST04004	lower_column	Upper_steering assem	\$51.62	1	\$3.58	\$48.04	\$0.00	\$0.00	\$51.62	
	Steering System		AB	ST04002	Flange2	Upper_steering assem	\$7.42	1	\$6.13	\$1.29	\$0.00	\$0.00	\$7.42	
	Steering System		AB	ST04011	Flange1	Upper_steering assem	\$21.88	1	\$9.85	\$12.03	\$0.00	\$0.00	\$21.88	
	Steering System		AB	ST04007	Steering upper_sleeve	Upper_steering assem	\$89.86	1	\$20.06	\$69.80	\$0.00	\$0.00	\$89.86	
	Steering System		AB	Assembly_ST0401	Steering assembly1	Upper_steering assem	\$450.83	1	\$60.00	\$9.27	\$371.56	\$10.00	\$450.83	
	Steering System	Assembly_ST0402	AB	ST04001	Rack	Lower_steering assem	\$35.64	1	\$26.56	\$9.08	\$0.00	\$0.00	\$35.64	
	Steering System		AB	ST04005	pinion	Lower_steering assem	\$14.04	1	\$5.60	\$8.44	\$0.00	\$0.00	\$14.04	
	Steering System		AB	ST04009	sleeve	Lower_steering assem	\$105.15	2	\$5.60	\$99.55	\$0.00	\$0.00	\$210.30	
	Steering System		AB	ST04010	C joint	Lower_steering assem	\$7.79	2	\$4.06	\$3.73	\$0.00	\$0.00	\$15.58	
	Steering System		AB	ST04008	tie rod	Lower_steering assem	\$39.87	2	\$4.10	\$31.77	\$4.00	\$0.00	\$79.74	
	Steering System		AB	ST04003	Drag link	Lower_steering assem	\$25.35	2	\$15.75	\$9.60	\$0.00	\$0.00	\$50.70	
	Steering System		AB	ST04012	Cover of Housing	Lower_steering assem	\$5.74	2	\$4.09	\$1.65	\$0.00	\$0.00	\$11.48	
	Steering System		AB	ST04013	lower_bracket	Lower_steering assem	\$9.03	2	\$5.50	\$3.53	\$0.00	\$0.00	\$18.06	

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	Steering System		AB	ST04014	cover cylinder	Lower_steering assem	\$4.25	2	\$0.35	\$3.90	\$0.00	\$0.00	\$8.50	
	Steering System		AB	Assembly_ST0402	steering assembly 2	Lower_steering assem	\$207.52	1	\$0.00	\$0.00	\$207.52	\$0.00	\$207.52	
	Steering System						\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

	Steering System				Area Total				\$210.68	\$465.41	\$587.08	\$10.00	\$1,326.42	
	Suspension	Assembly-SU0701	AB	SU07001	Front A-Arms or Equivalent	upper wishbone	\$29.71	2	6.65	6.16	6.9	10	\$59.42	
	Suspension		AB	SU07003	Front A-Arms or Equivalent	lower wishbones	\$73.61	2	15.75	11.86	6	40	\$147.22	
	Suspension		AB	SU07004	Front Uprights	upright brackets	\$31.00	2	16.8	14.2	0	0	\$62.00	
	Suspension		AB	SU07002	Front Uprights	upright	\$50.10	2	42.7	7.4	0	0	\$100.20	
	Suspension		AB	SU07005	Front wheel axe	Dead axe	\$122.70	2	22.4	100.3	0	0	\$245.40	
	Suspension		AB	Assembly-SU0701	suspension assembly	front suspension assembly	\$124.60	2	80	10	34.6	0	\$249.20	
	Suspension	Assembly-SU0702	AB	SU07006	Trail arm	rear suspension	\$248.76	2	146.51	32.25	0	70	\$497.52	
	Suspension		AB	Assembly-SU0702	suspension assembly	rear suspension assembly	\$150.40	2	80	19	51.4	0	\$300.80	
	Suspension		AA				\$0.00							
	Suspension		AA				\$0.00							
	Suspension		AA				\$0.00							
	Suspension		AA				\$0.00						\$0.00	
	Suspension		AA				\$0.00						\$0.00	
	Suspension		AA				\$0.00						\$0.00	
	Suspension		AA				\$0.00						\$0.00	
	Suspension & Shocks				Area Total				\$821.62	\$402.34	\$197.80	\$240.00	\$1,661.76	
	Wheels & Tires	ASM-03001	AA		Tire		\$200.00	2	200	0	0	0	\$400.00	
	Wheels & Tires		AA		Wheel Center, Any Size		\$140.00	2	140	0	0	0	\$280.00	
	Wheels & Tires		AA		Tires		\$0.00						\$0.00	
	Wheels & Tires		AA		Valve Stems		\$0.00						\$0.00	
	Wheels & Tires		AA		Wheel Weights		\$0.00						\$0.00	
	Wheels & Tires		AA		Wheel Bearings		\$0.00						\$0.00	
	Wheels & Tires		AA		Wheel Studs		\$0.00						\$0.00	
	Wheels & Tires		AA		Rear Hubs		\$0.00						\$0.00	

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	Wheels & Tires		AA		Front Hubs		\$0.00						\$0.00	
	Wheels & Tires				Area Total				\$680.00	\$0.00	\$0.00	\$0.00	\$680.00	
	Vehicle Total				Total				\$14,561.21	\$2,039.99	\$1,132.48	\$748.98	\$18,421.59	