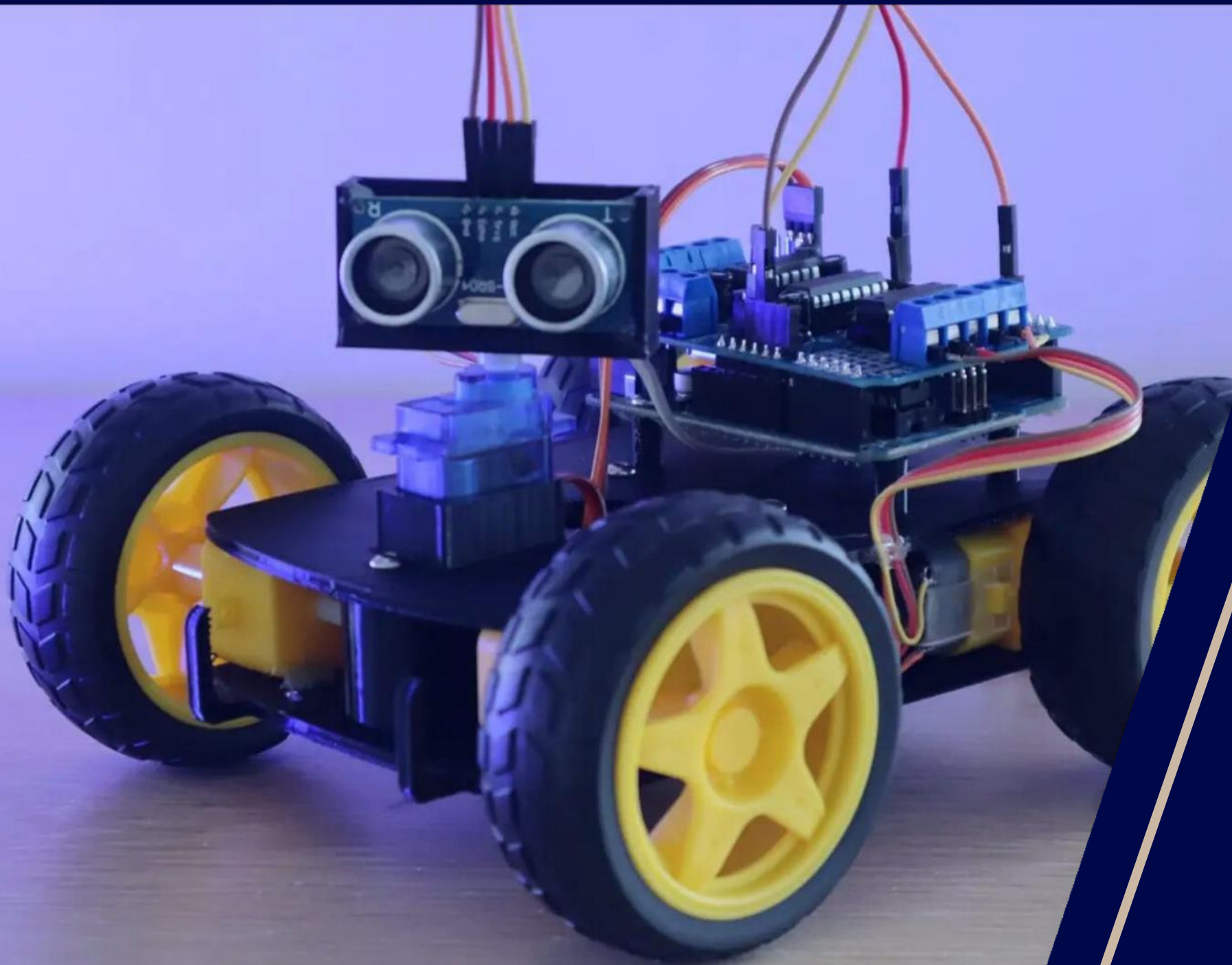


MINS

SUN SEEKING DRYER ROBOT





Specification

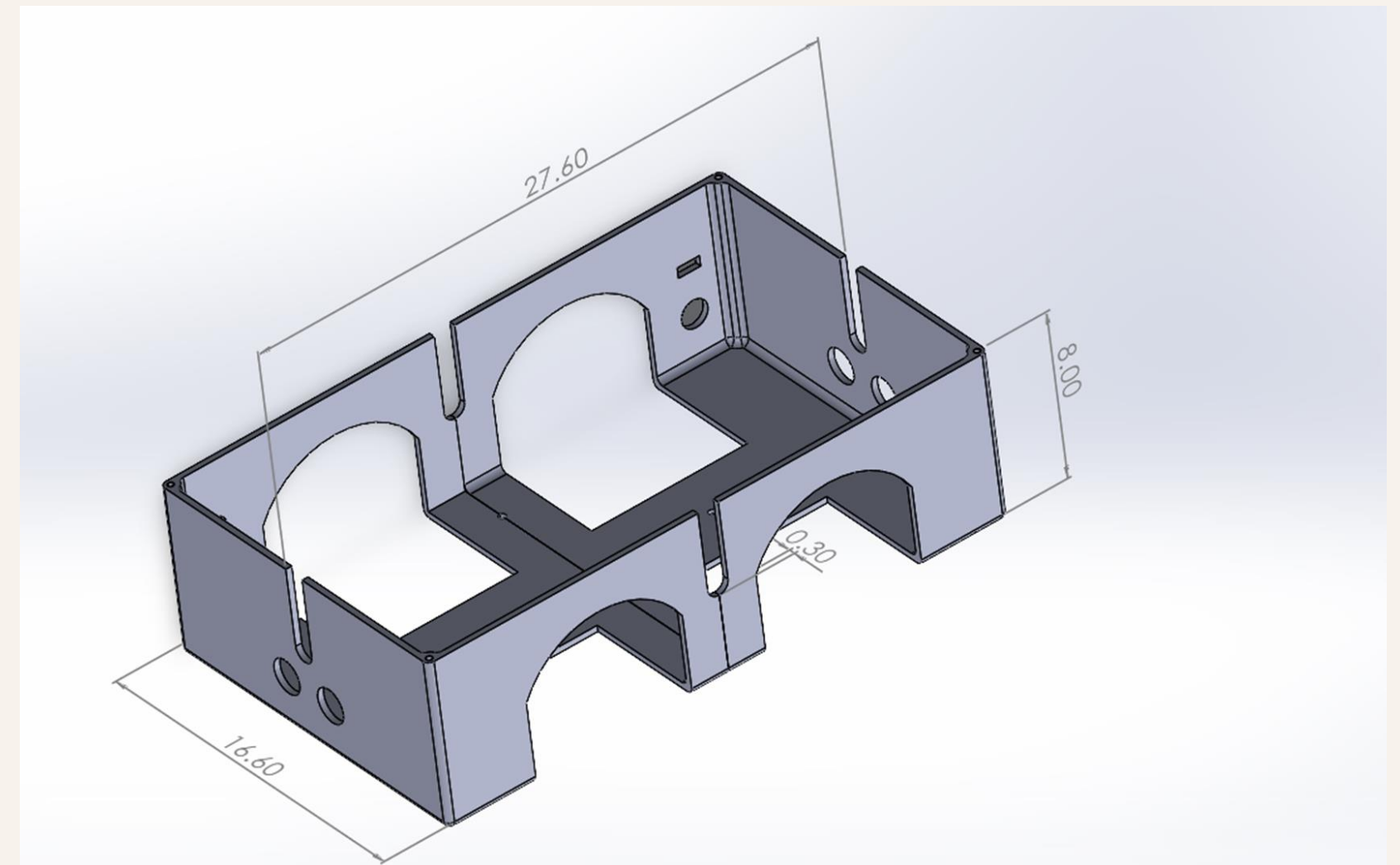
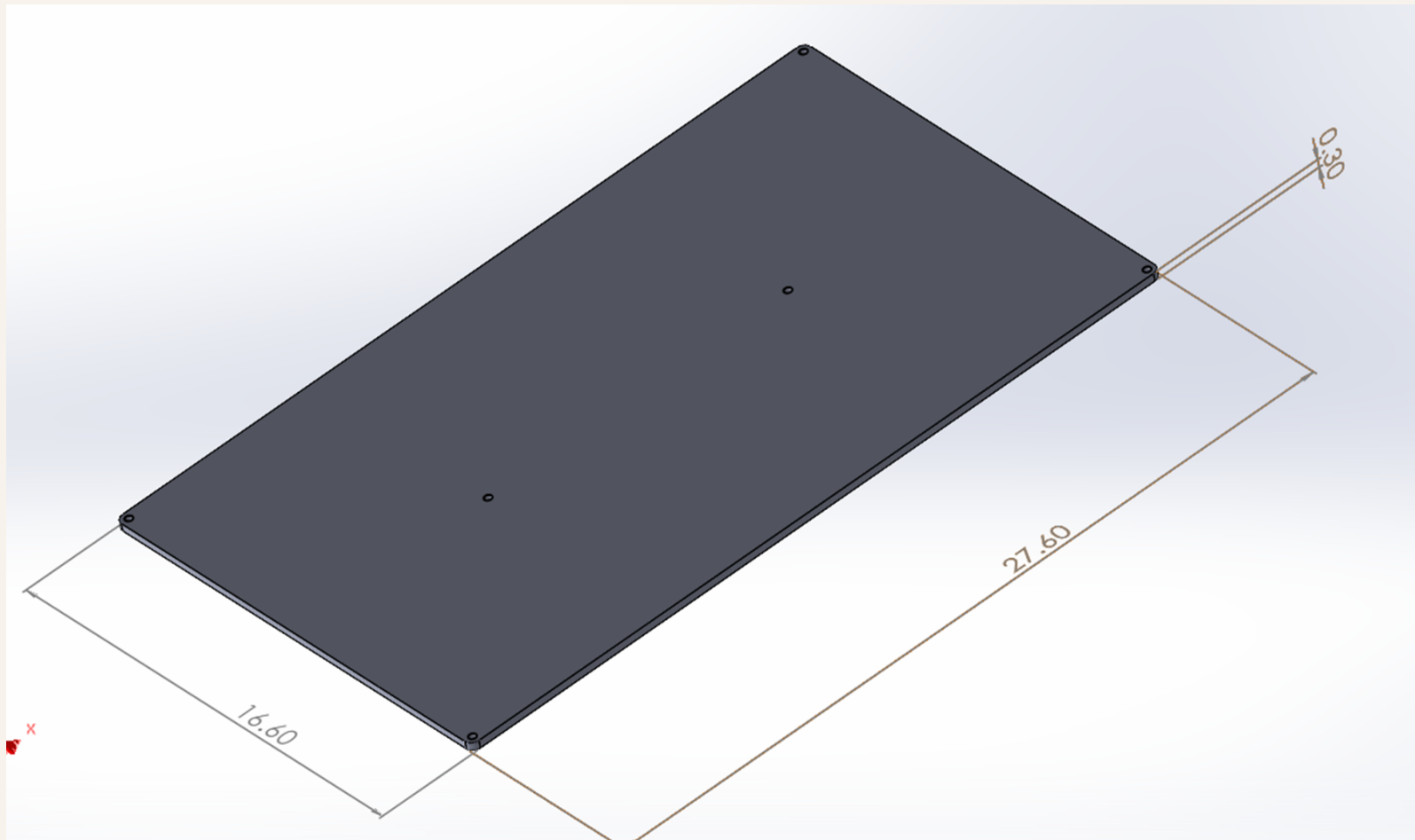
The team of MINS proudly presents the ‘ SelfoDryer’ ; a sun seeking dryer robot

We designed the automatic sun seeking dryer in a way that it feature an advanced sun tracking system that precisely follows the sun's movement throughout the daytime with the use of LDR sensors. This system will utilize cutting-edge sensors and technology to ensure accurate alignment with the sun's position, optimizing the exposure of materials to sunlight for efficient drying.

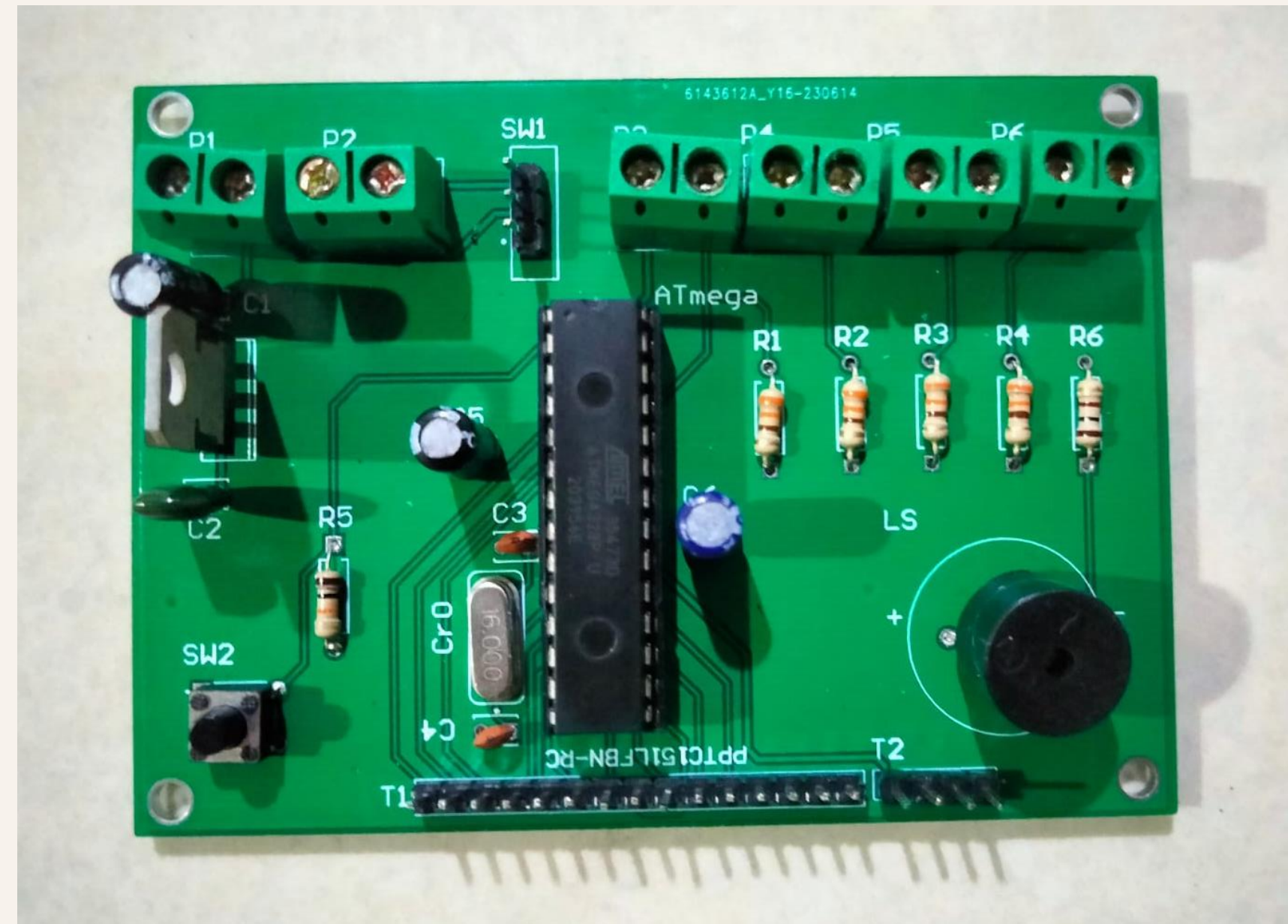
‘sun seeking dryer’ would enable households in rural areas to dry clothes and other materials more efficiently, without the need for electricity or manual labor

‘

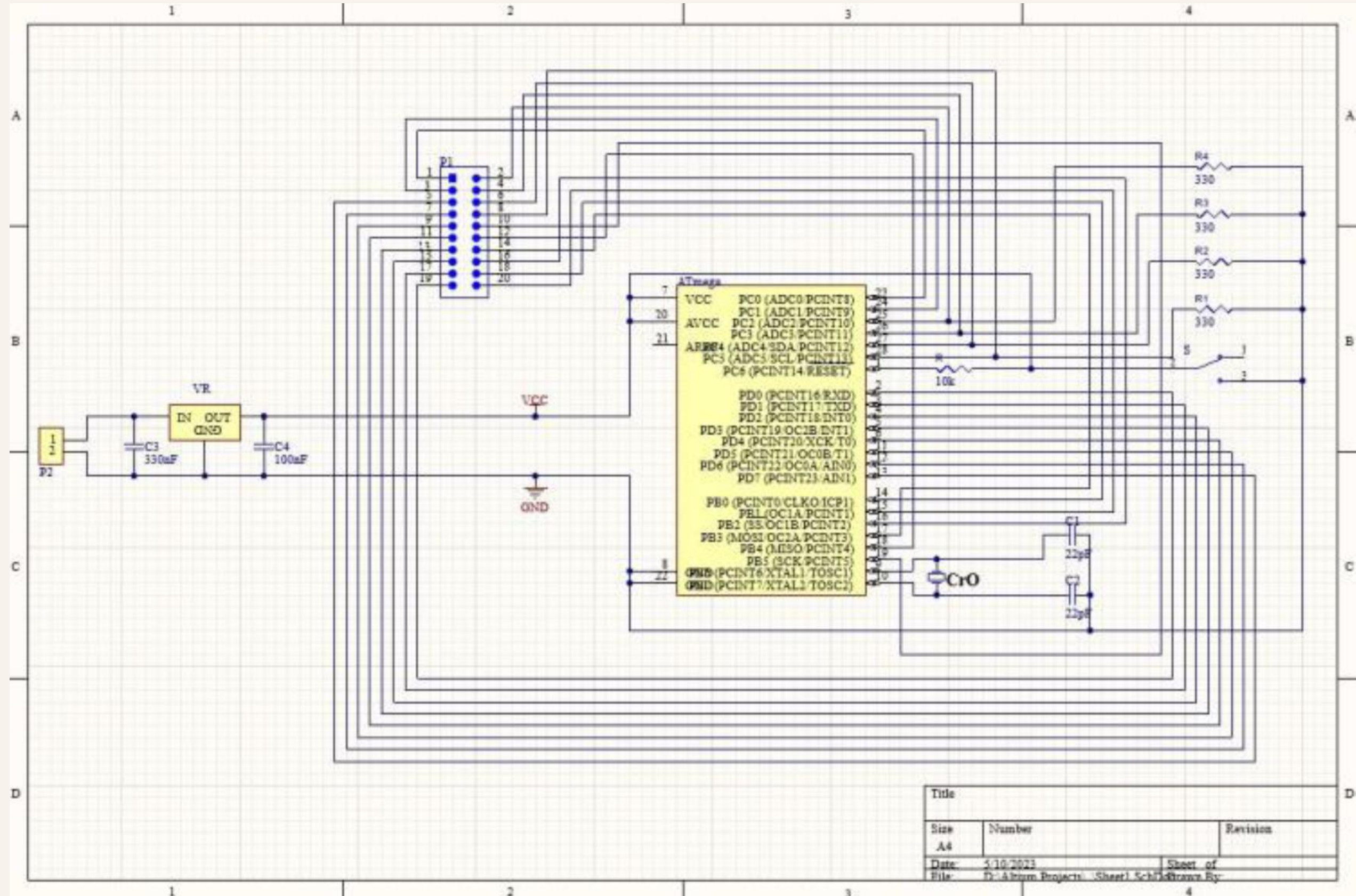
Enclosure Design



PLA



Circuit Diagram

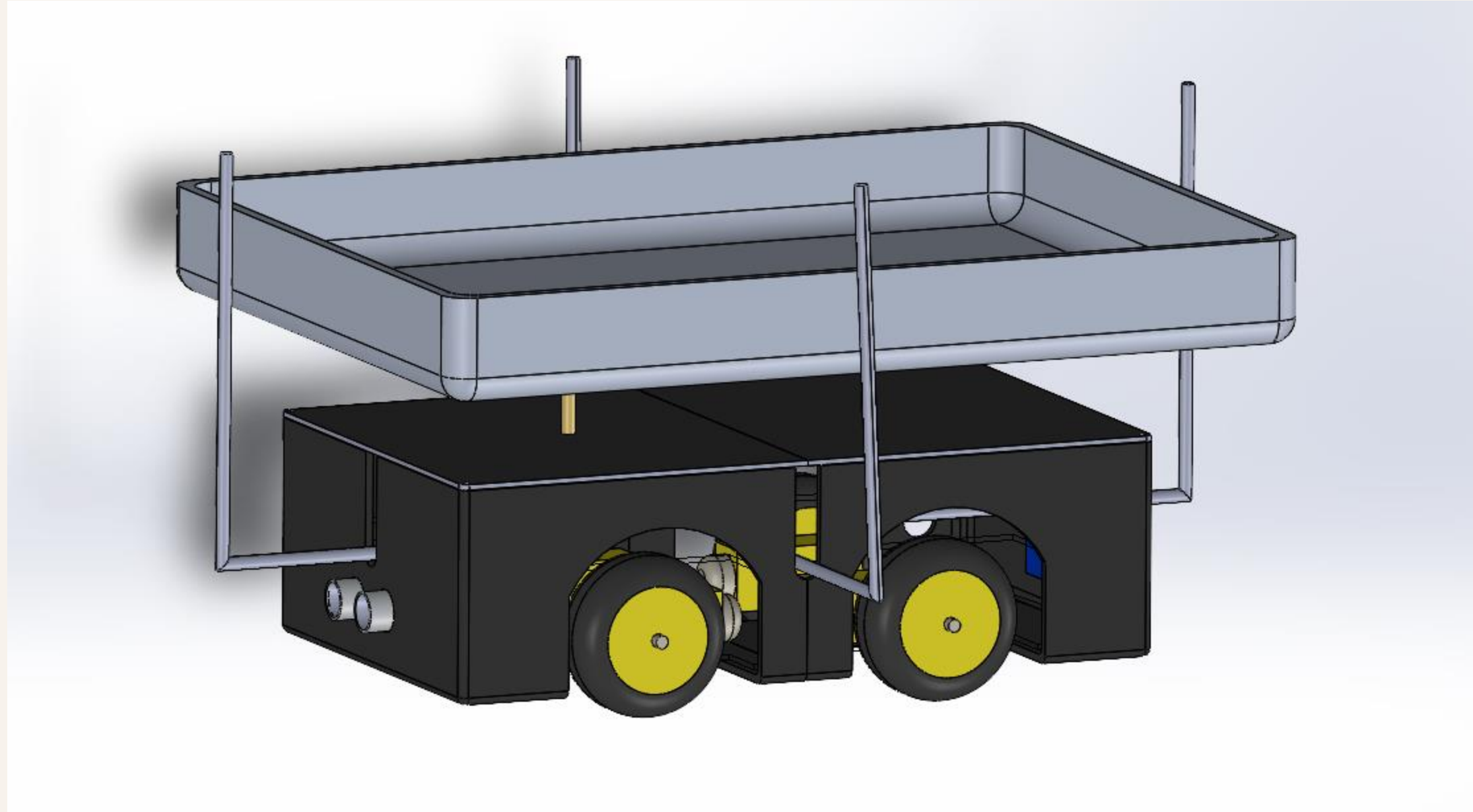


Budget with BOQ

Sun Seeking Dryer Robot - Budget Plan				
	Component	Unit price(LKR)	Quantity	Amount(LKR)
	Wheel with DC gear motor	280	4	1120
	ATMEGA 328P microcontroller	1800	1	1800
	Ultrasonic sensors	280	2	560
	16 MHz oscillator	40	1	40
	Motor driver	500	1	500
	BMS	500	1	500
	IC holder	8	1	8
	3.7V 4000MA battery	450	2	900
	Battery holder - 2 cell	120	1	120
	220 Ω resistor	3	4	12
	330 Ω resistor	3	4	12
	1k Ω resistor	3	4	12
	LDR	15	4	60
	0.1 μ F capacitor	2	1	2
	22 pF capacitor	3	2	6
	0.33 μ F capacitor	3	1	3
	2 Pole ON/OFF switch	50	1	50
	7806 voltage regulator	60	1	60
	Tray	930	1	930
			Total(LKR)	6695

Price of components	6695
PCB printing	580
3D printing	3240
Other expenses	150
Total Expense	10665
Profit	4334
Total Product Price	Rs.14999

Final Design



Final Product



Sample demo



Group Members



**Induwara
Gayashan**



**Nilupulee
Amarathunga**



**Samudra
Uduwaka**



**Mihiraja
Kuruppu**



Task Allocation

Member	Task
Nilupulee Amarathunga	PCB Design
Induwara Gayashan	Enclosure Design
Mihiraja Kuruppu	Coding, Circuit Design
Samudra Uduwaka	Coding , Circuit Design



THANK YOU ...