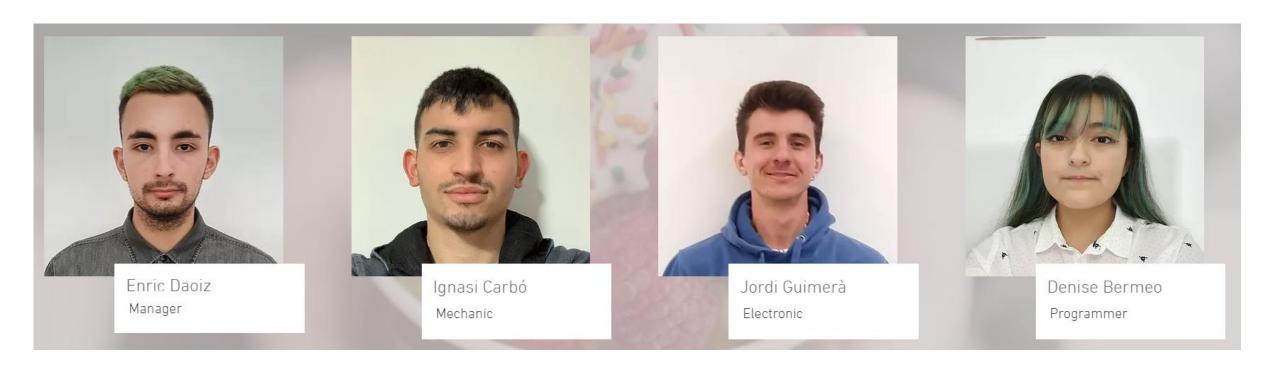
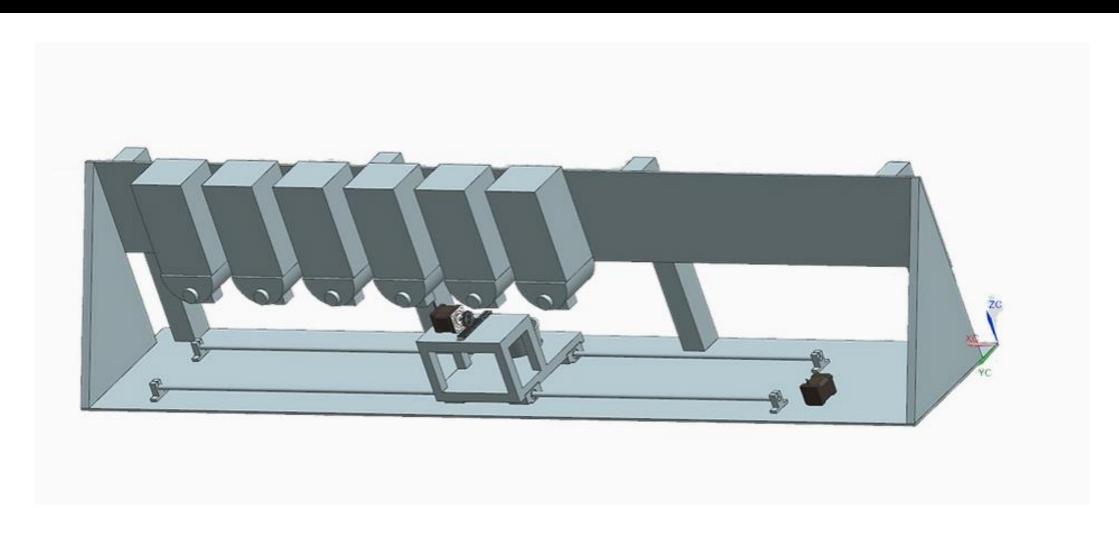
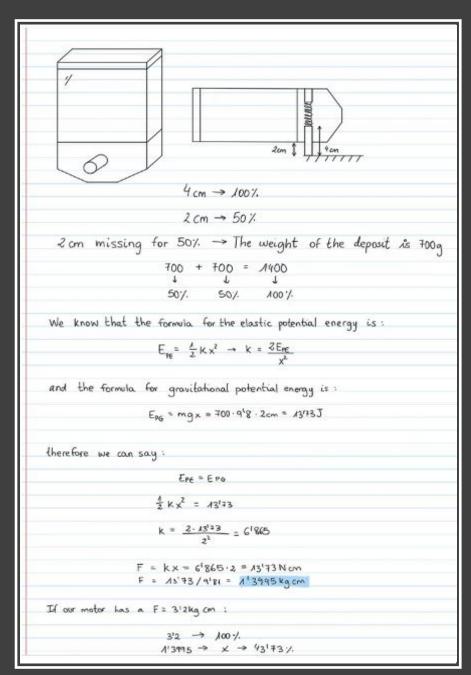


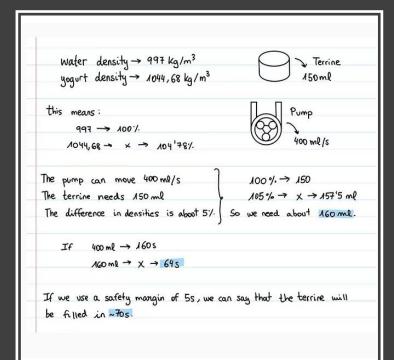
Objectives and motivation

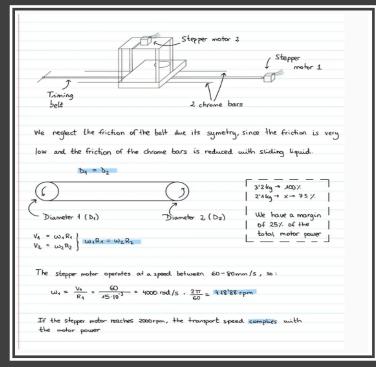


Specifications for the device you are designing







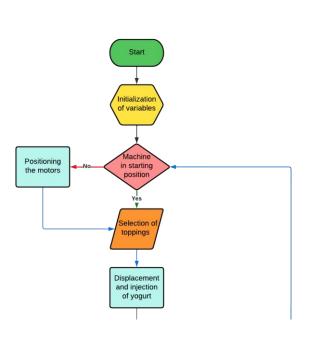


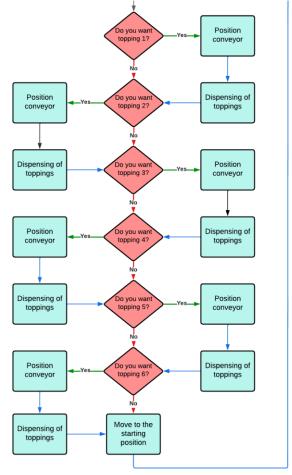
PUMP

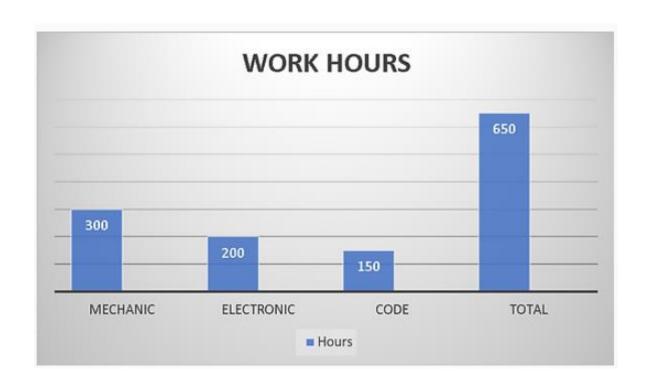
MOTOR 1

Mechanical calculations

Demonstrators







Material	Preu / Unitat	Quantitat	Total
Stepper motor NEMA 17	10,85 €	2,00	21,70 €
Pololu A4988 stepper driver	1,79 €	2,00	3,58 €
ESP32	7,88 €	1,00	7,88 €
MEC-SLU16-DQ-A	6,97 €	4,00	27,88 €
MEC-SHSUPV16-DT-A	3,18 €	4,00	12,72 €
Mega 2560	13,03 €	0,00	0,00 €
Endstop	0,59 €	2,00	1,18€
DC-DC converter (12V to 5V)	9,49 €	1,00	9,49 €
AC power supply 12V	11,38€	1,00	11,38€
Micro water pump	2,95 €	1,00	2,95 €
T2 timing pulley 20 teeth 5mm bore	1,99 €	1,00	1,99 €
GT2 6mm wide timing belt Price for meter->	1,99 €	4,00	7,96 €
Synchro Toothed Pulley GT2	2,49 €	1,00	2,49 €
Dispenser Container	6,90 €	6,00	41,40 €
Corretja T5 10mm Price for meter->	12,10€	4,00	48,40 €
Cadena portacables 06.16.018.0	29,35€	1,00	29,35 €
Bomba Peristáltica 3x5	26,47 €	1,00	26,47 €
			256,82 €

Extra materials	Price
Wood	25,00 €
Metal Bars	33,00 €
Toppings	15,00€
Price /h	15,00€
Total work hours	650
Total price (work)	9750
Total price	9.823,00 €

Budget





Any questions?