

Š O L S K I  C E N T E R

Š K O F J A L O K A

Višja strokovna šola za strojništvo in lesarstvo



**LT TA – Learning Trainig and Teaching Activity**

PROJECT VACIDE ROBOT THOR

Urban Verbič

# Overview of Pieces

- Review of pieces
- Determination of acceptability of pieces

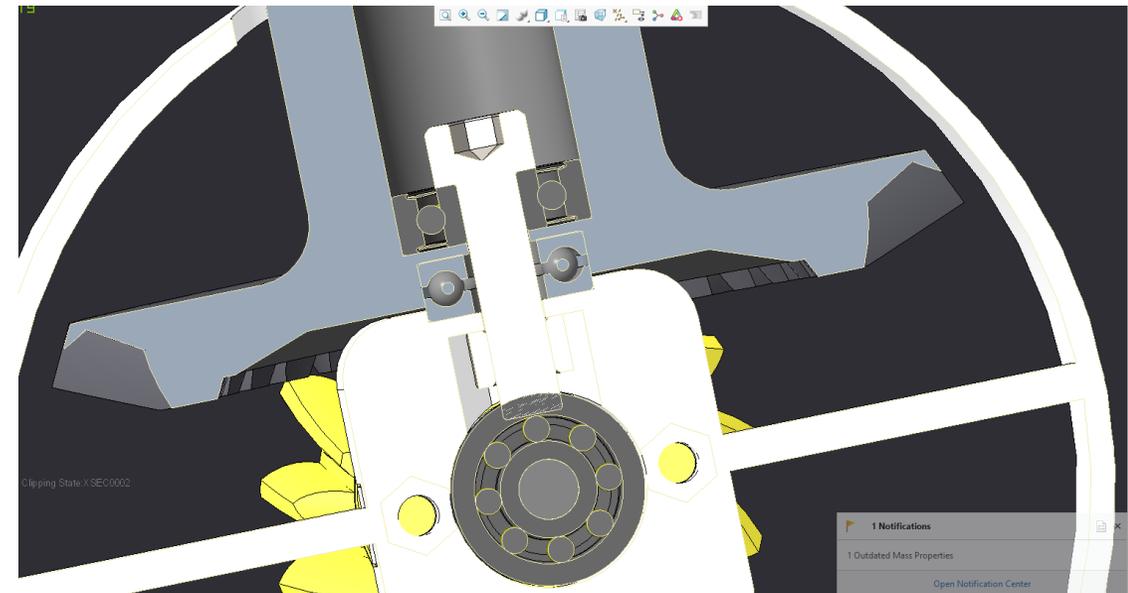
No.	Component name	Quantity	make/buy	provider	Costs
1	Barrel Jack Connector Control PCB	1	PP	VHS BW	0.57 €
2	Female Pins Control PCB	112	PP	VHS BW	2.34 €
3	3 Wire female connectors Sensor PCBs	5	PP	VHS BW	2.02 €
5	Motor Nema 17; L=40mm; Holding torque: 39.22 N.cm	1	PP	VHS BW	124.99 €
6	Motor Nema 17; L=34mm; 5.18:1 mechanical reduction; Holding torque: 121.2 N.cm	3	PP	VHS BW	
7	Motor Nema 17 L=34mm; Holding torque: 21.57 N.cm	3	PP	VHS BW	
13	Cooper Plate 36x16mm Sensor PCBs	4	PP	VHS BW	4.98 €
24	Bus Wire 2x36 Control PCB	1	PP	VHS BW	29.90 €
35	40mm Fan Control PCB	6	PP	VHS BW	10.15 €
40	Arduino Mega	1	PP	VHS BW	7.84 €
41	Micro Endstop (Straight type)	1	PP	VHS BW	1.66 €
42	Cooper Plate 120x91mm Control PCB (9x15)	1	PP	VHS BW	1.10 €
43	A4988 Stepper Motor Driver Control PCB	7	PP	VHS BW	19.95 €
44	25V 100uF Capacitor Control PCB	7	PP	VHS BW	0.53 €
45	10kΩ Resistor Control PCB	7	PP	VHS BW	0.38 €
46	Male angled pin Sensor PCBs	12	PP	VHS BW	78.00 €
47	Male Pins Control PCB	97	PP	VHS BW	11.05 €
48	10kΩ Resisto Sensor PCBs	4	PP	VHS BW	0.83 €
49	220Ω Resistor Sensor PCBs	4	PP	VHS BW	0.79 €
50	Optocoupler Sensor PCBs	4	PP	VHS BW	0.88 €
51	Metters of wire Sensor PCBs	3	PP	VHS BW	55.50 €
					353.46 €

# Overview of Mechanisms

- Inspected where everything could get into trouble
- Watched a few videos on the others approached making and assembling a robot
- Example <https://github.com/AngelLM/Thor>

# Lower Wrist

- Landed assistance



# Assembling the Robot

- Making a plan of assembly
- Solution for the connectors between the robot assemblies

# Helping others

- Because I joined the team when they have already divided the work, I assisted them in any way I could