

LTTA – Learning Trainig and Teaching Activity

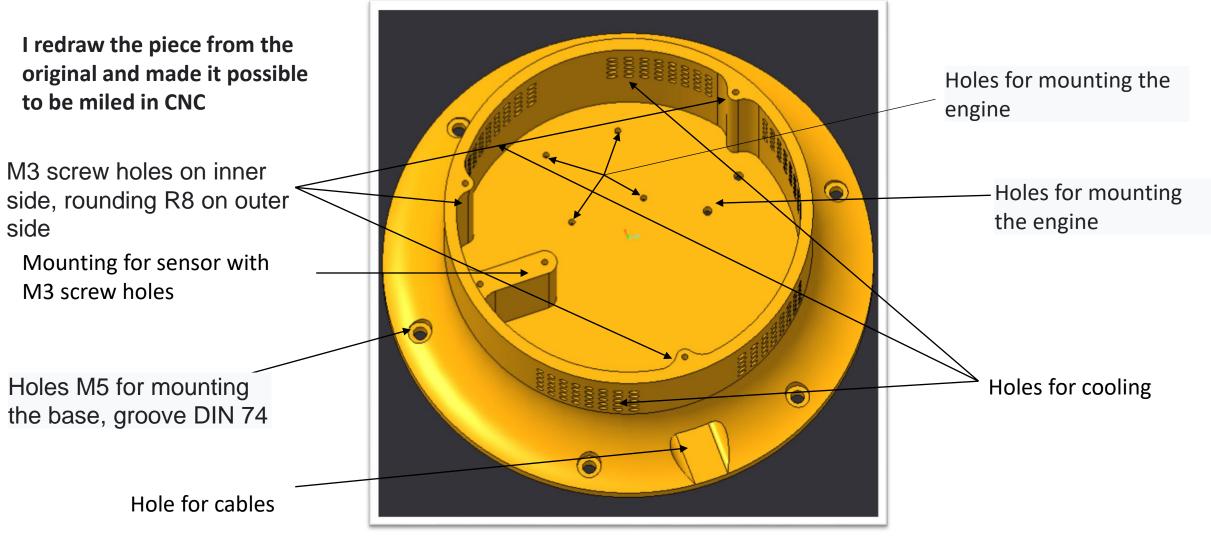
PROJEKT VACIDE ROBOT THOR

Pivk Aljaž

20. May 2021

VACIDE LTTA activity – presented online by ŠC Škofja Loka

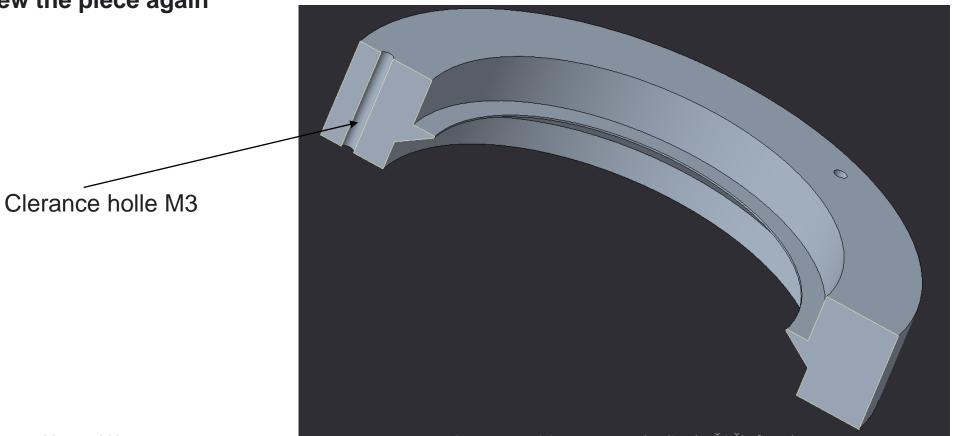
Basebot



VACIDE LTTA activity – presented online by ŠC Škofja Loka



I picked up the measurements from the model we got and drew the piece again

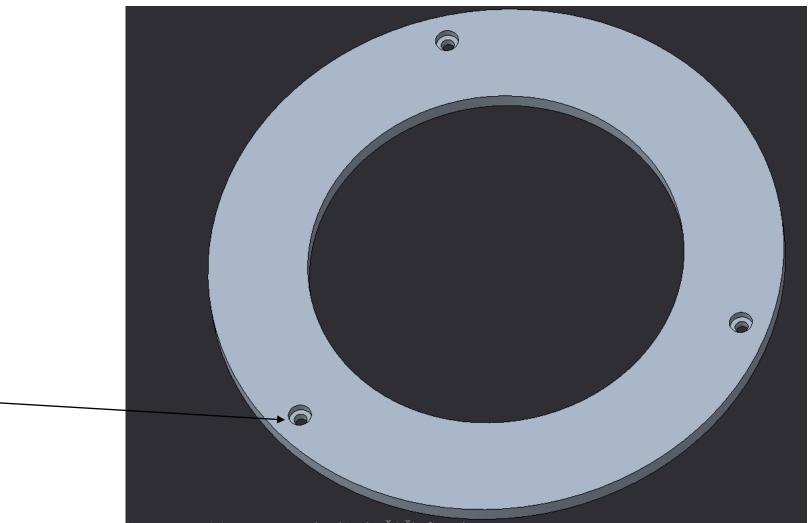


20. May 2021

VACIDE LTTA activity – presented online by SC Skofja Loka

Basebearingfix

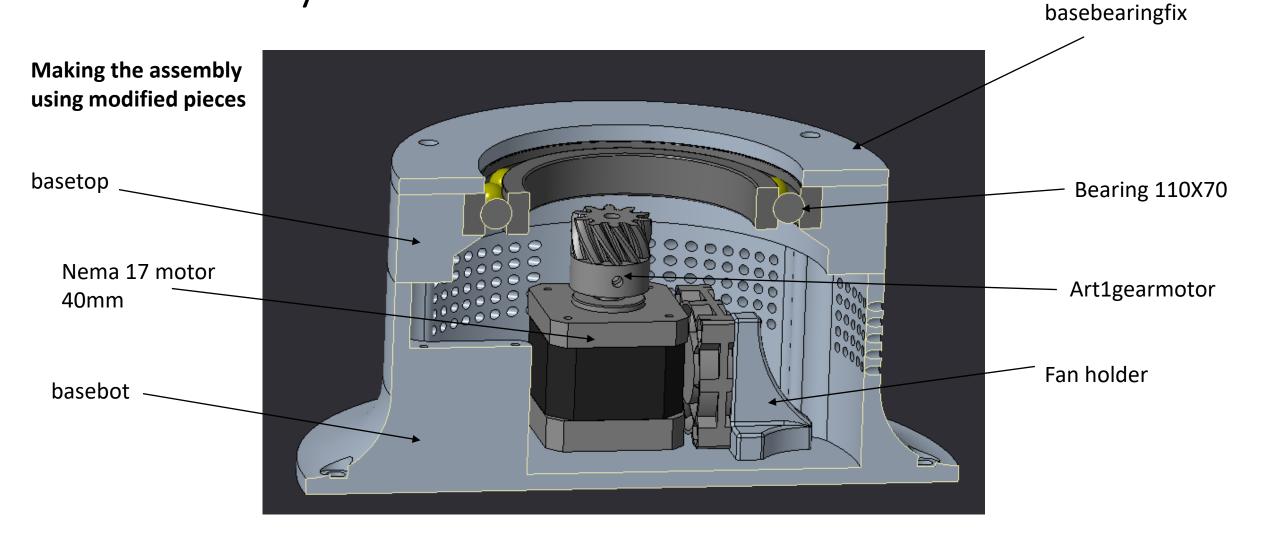
I picked up the measurements from the model we got and drew the piece again



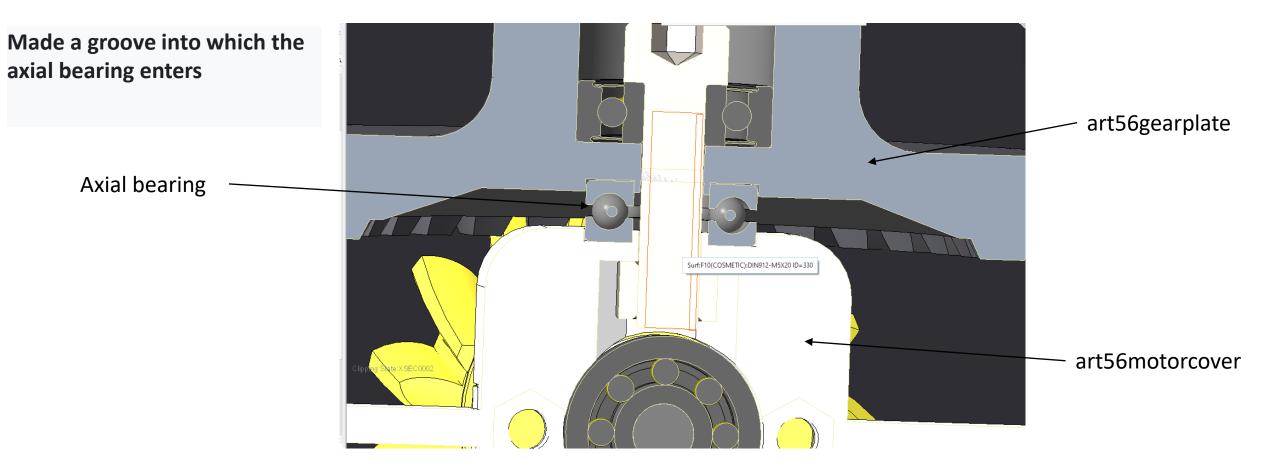
Clerance holle with groove DIN 74 _

VACIDE LTTA activity – presented online by SC Skofja Loka

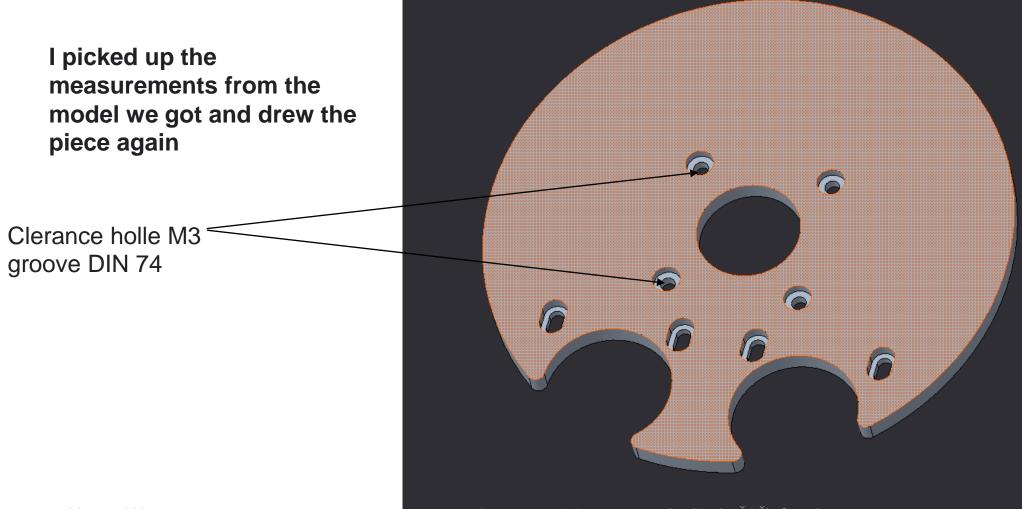
Assembly



Art56 Gearplate, Motorcover



Art2bodyAcover1



VACIDE LTTA activity – presented online by SC Skofja Loka

Other

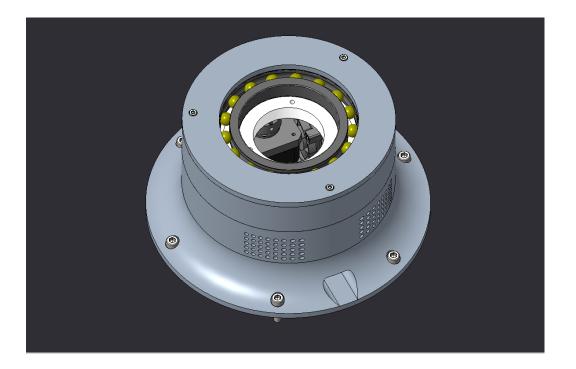
- Created a group on the discord where we have meetings every day and exchange information
- Editing our exel fille
- Collected technical drawings of motorcycles and fans

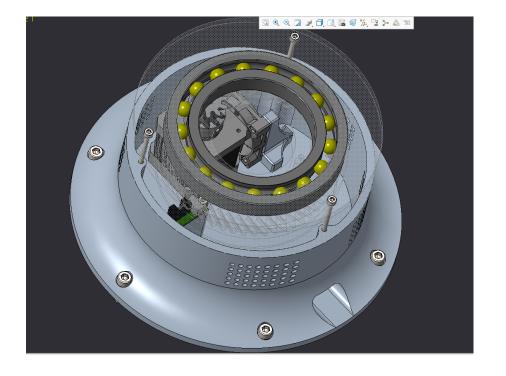
THOR ROBOT BASE

Aljaž Pivk

VACIDE LTTA activity – presented online by ŠC Škofja Loka

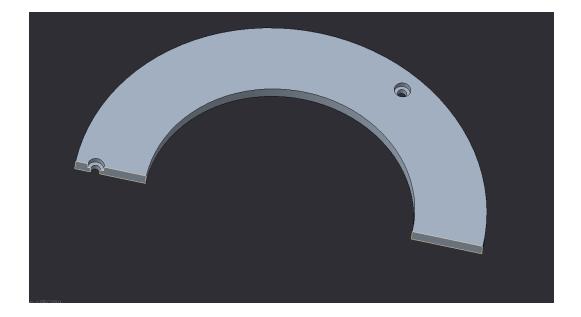
ASSEMBLY OF BASE





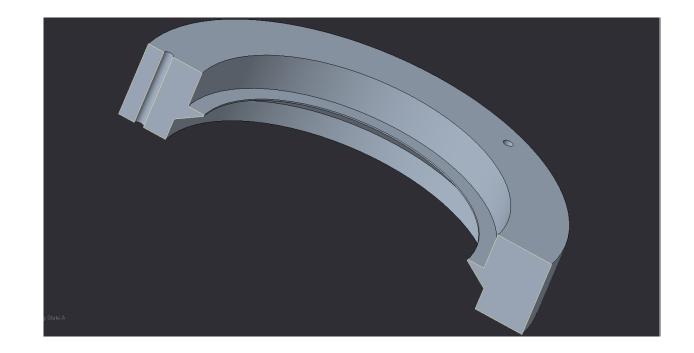
Alteration of Basebearingfix

 Added 3 M3 Clearance holes with counter holes for mounting the pice on Basebot



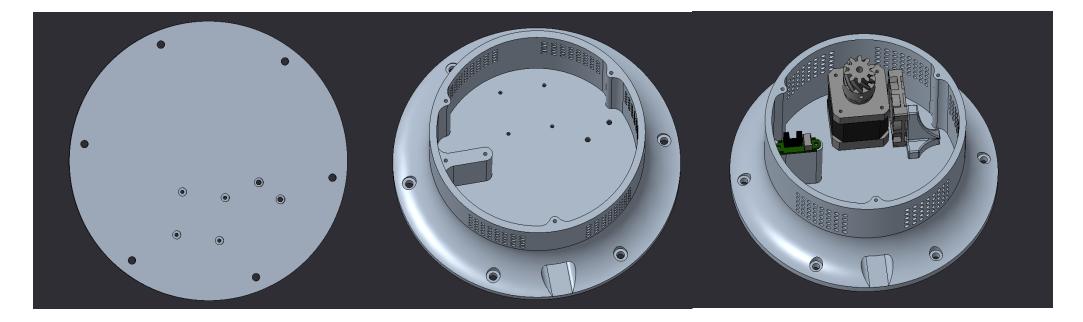
Alteration of Basetop

• Added 3 M3 Clearance holes for mounting the pice on Basebot



Alteration of Basebot

- Adition of holes to cool the motor
- aded holes for mounting fanholder
- Added holes with wich Basebearingfix and basetop get mounted on Basebot
- Rounded the corners so that the pice can be milled on CNC



Assembely of base bot



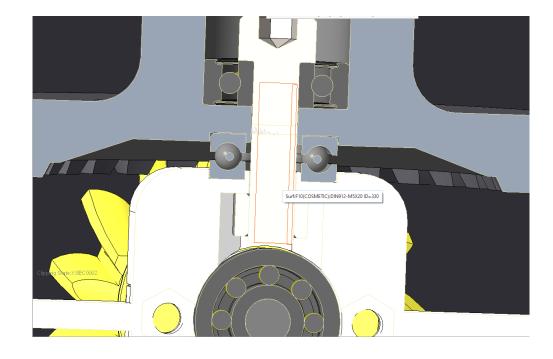
Firstly the motor is screwed to the basebot. Secondly we assemble fanholder and fan and screw that to basebot aswell. Then optoswitch is screwd in place.

Lastly a bearing is put betwen Basebearingfix and basetop. Then everyting gets screwd together onto Basebot.



modifying Art54gearplate and Art54motorcover

 Made a slot in Art54gearplate and Art54motorcover into which goes an axial bearing



Other

- Made a table in exel which contains all screws used in the robot
- Copied tecnical documentation of motors and fans into a folder

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		vijaki za nabavo			1	Matice za nabavo			1		art3	_	
	vijaka	dolžina	Količina	Opomba		Standard vijaka	Navoj	Količina	Opomba		Sklop:	+	
	-	M2x6	2		1	DIN 934-8-10	M2	2				art4	
	DIN 912	M2X10	2		1	DIN 934-8-10	M3	53			Standard	Vijak	
	DIN 912	M3x6	26			DIN439_B	M3	6			DIN 912	M2X10	
	DIN 912	M3x8	27			DIN439_B	M4	1			DIN 912	M3x6	
	DIN933	M3x8	1		1	DIN 934-8-12	M6	4		1	DIN 912	M3x8	
	DIN 912	M3x10	13		1	Vložki vijaka	M3	4	Vtisk v plastiko		DIN 912	M3x10	
	DIN 912	M3x14	12								DIN 912	M3x14	
	DIN7991	M3x16	8	Vijak z vgreznjeno glavo							DIN 912	M3x18	
	DIN 912	M3x18	4			DIN125A		4	Podložka		DIN 912	M3x25	
	DIN 912	M3x20	10								DIN 912	M5x25	
	DIN 912	M3x25	10								DIN 7991!!	M3X25	
	DIN 912	M3x30	4								Matice	Navoj	
	DIN 912	M3x35	3								DIN 934-8-10	M2	
	DIN 912	M3x45	10								DIN 934-8-10	M3	
	DIN 912	M3x50	11								DIN 934-8-10	M5	
	DIN 912	M4x12	4								Vložki vijaka	M3	
	DIN 912	M4x20	4										_
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	DIN 913	M5x20	6										
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THANK YOU FOR YOUR ATENTION!