610 Huntington Ave, Boston, MA 02115 04/20/2021 Professor R. Roberts Online Wentworth Institute of Technology, Boston, MA 02115 Dear Professor Roberts, Attached is my final project of the wheel assembly. The task of this project is to model all parts of this wheel assembly as well as constructing appropriate drawings of the parts and exploded assembly. Also required is an interface checklist showing tolerances within the assembly. Using SolidWorks design software, I was able to model each individual part and then create the assembly. Using the same software, technical, multi-view drawings were created of each part and finally a bill of materials was created and added to the exploded assembly drawing. Using techniques learned in Engineering Graphics (MECH2300), I was able to complete the project as required and is attached for your grading.

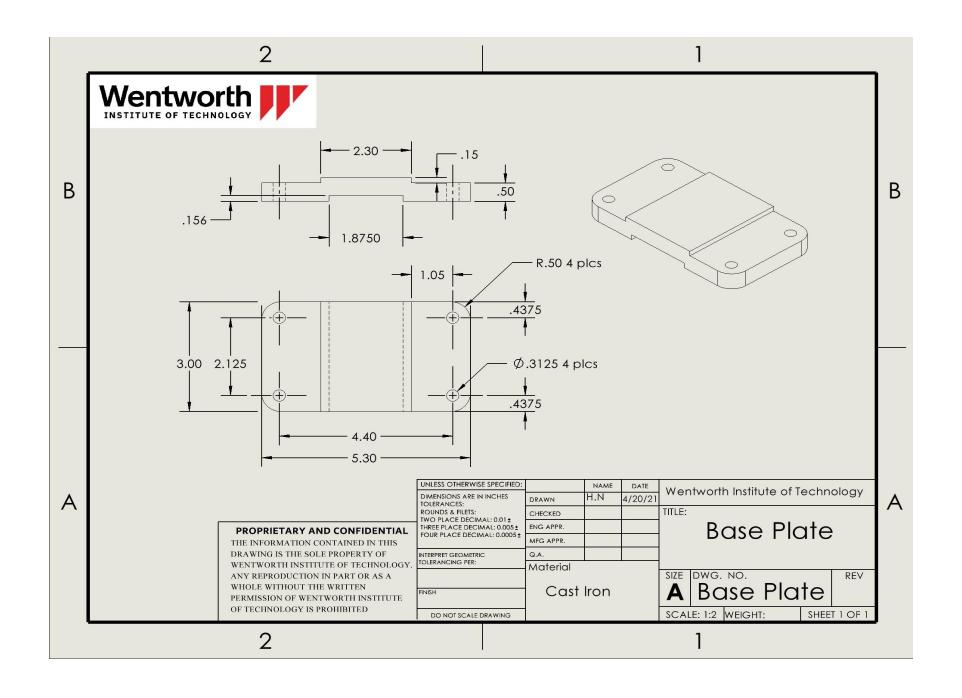
Thank you,

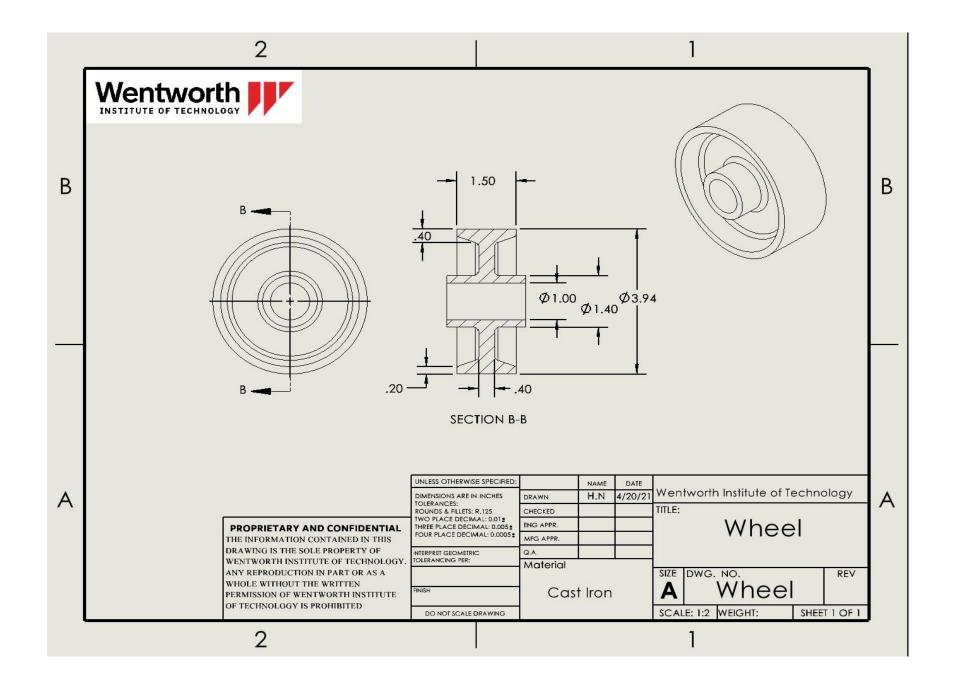
Hideyuki Nakanishi

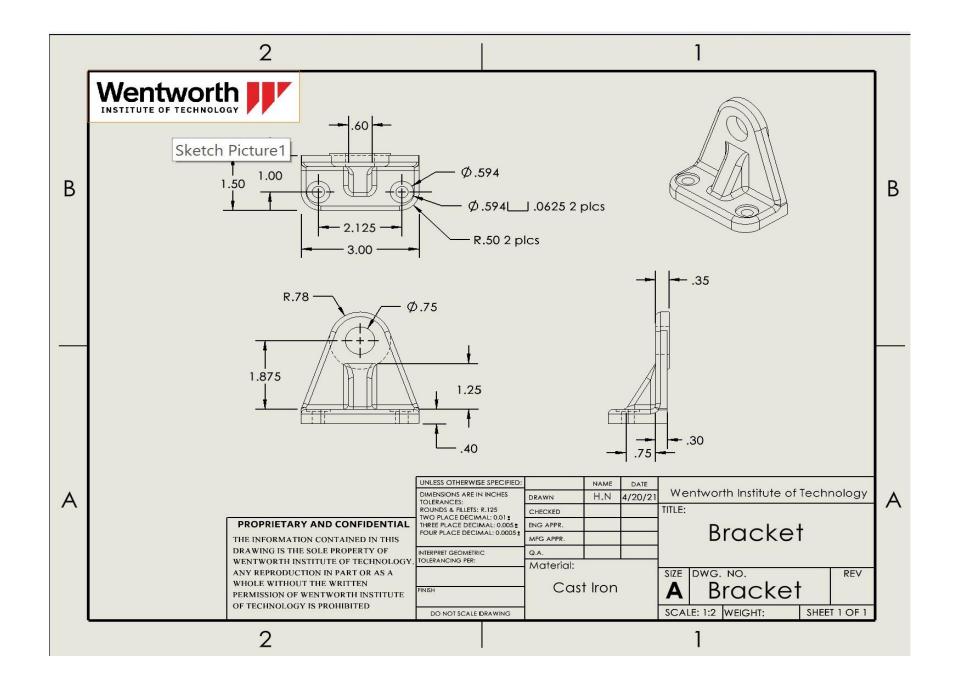
**Electromechanical Engineering** 

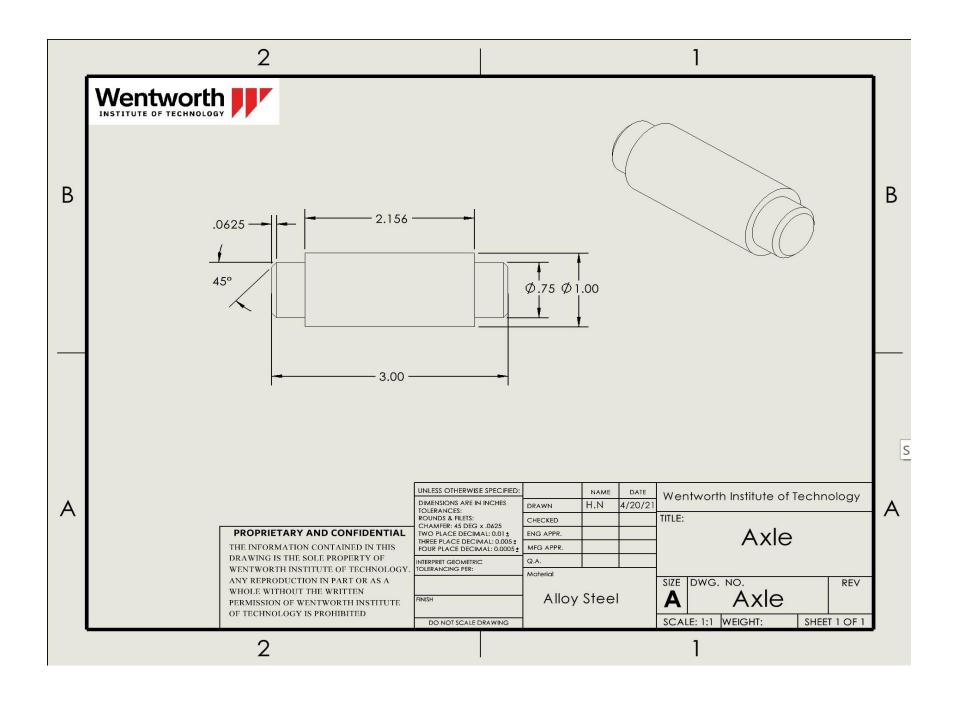
Wentworth Institute of Technology '23

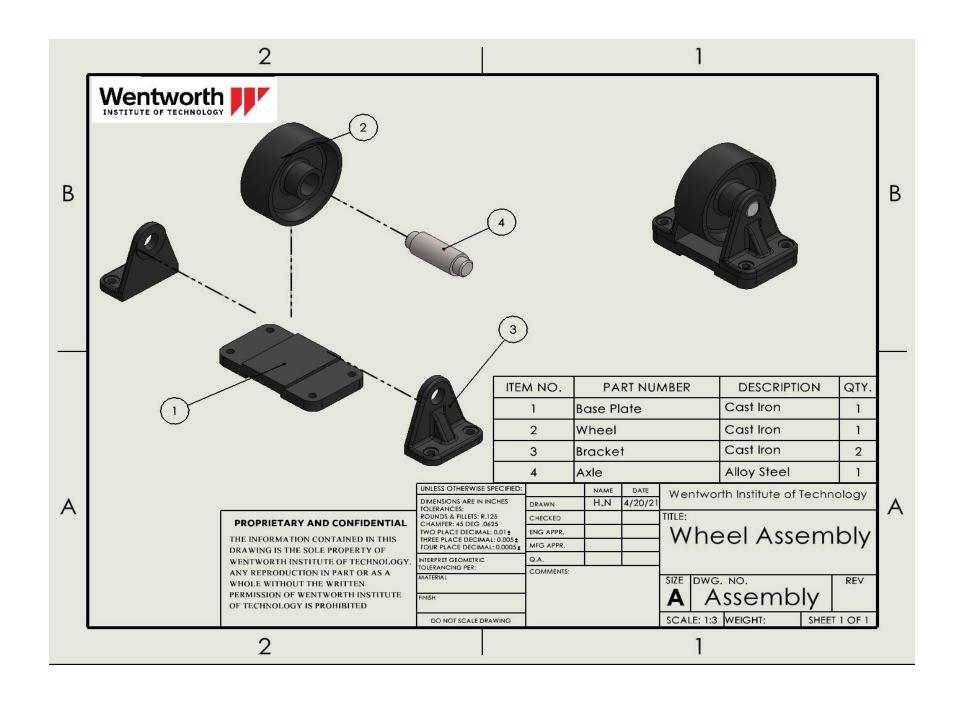
Email/phone number: nakanishih@wit.edu / +1 617-818-3938











Interface Number	Interface Description	Part	Nominal Size, Inch	FITS	Min Hole	Max Hole	Min Shaft	Max Shaft	L.F.	T.F.
1	Bracket to Axle	3,4	0.750	FN5	0.75	0.7512	0.7522	0.753	-0.001	-0.003
2	Wheel to Axle	2,4	1.00	RC8	1.00	1.0035	0.9935	0.9955	0.01	0.0045
		General tolerances are	provided in report i	equirem	ent file					
Part Number	Part Description	mponent or Material Selecti	Additional Notes							
1	Base Plate	Cast Iron								
2	Bracket	Cast Iron								
3	Wheel	Cast Iron								
4	Axle	SAE 1112								