Tolerance Brochure

Project Overview:

You will be creating a brochure which highlights examples of different tolerances or dimensions.

Directions:

- 1. Select a group of sample tolerances from the list below:
 - GD&T Form Tolerances (flatness, cylindricity, roundness, straightness, circularity)
 - GD&T Orientation Tolerances (angularity, perpendicularity, parallelism)
 - bilateral tolerances & limit dimensions
- 2. Research how your selected tolerances is used and defined.
 - Look for example engineering applications that typically utilize the selected tolerance
 - · take notes in the designated space
- 3. Note three examples of the selected tolerance types in engineering drawings to get an idea of how they are used in industry. *Hint: Many industrial suppliers of components or robotics will provide engineering drawings of the parts they sell.*
- 4. Design a brochure communicating what you learned about your selected tolerance types. Start assembling your brochure, researching any additional information as necessary. Your brochure must include the following sections:
 - title
 - explanation of what the dimension specifies and how it would appear in an engineering drawing
 - three examples of an example part and the specific feature where specifying this type of tolerance would be appropriate and your justification
 - description of the machine or manufacturing process that would be used to manufacture one of those parts
 - bibliography, with properly cited sources
- 5. Submit your finished brochure according to your instructor's directions.

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	Research Notes	
Use & Defined		
Measurement		
Examples		
Precision Requirements		

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Rubric

Description	Possible Points	Your Score
 Research & Organization: Proper research was conducted to complete the assignment Sources were cited appropriately based on instructions provided Information was presented in a logical organized manner 	45	
 Concept & Understanding: Understanding of the concept is clearly evident Effective strategies were used to achieve the end product Logical thinking was utilized to arrive at the conclusion 	35	
 Creativity/Craftmanship: End product is unique and reflects the student's or group's individuality End product is clearly high quality 	10	
Production/Effort: Class time provided for the project was used efficiently Time and effort are evident in the execution of the end product	10	
Total Points	100	

Additional Comments: