

ME 1403 Engineering Practice & Graphics

Spring 2018

Group Project Guidelines

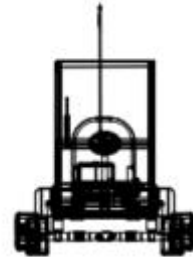
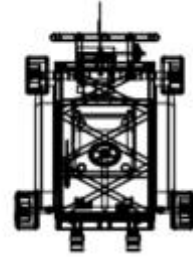
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Project?

- Create a Solidworks model of a vehicle.
 - Plane
 - Bicycle
 - Car, etc.
- It can be any vehicle. But you must list / create 20 different parts of the vehicle.

Example



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES	DRAWN			TITLE:
		TOLERANCES:	CHECKED			
		FRACTIONAL ±	ENG APPR.			
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				Group Proj L6-2 Final ass
		MATERIAL				
NEXT ASSY	USED ON	FINISH				SCALE: 1:50 WEIGHT: SHEET 1 OF 1
	APPLICATION	DO NOT SCALE DRAWING				

Courtesy: Group L6-2 (Fall 2017)

Requirements

- 5 parts per member per group.
 - i.e. if your group has 4 members, then the total number of part submission will be $(4 \times 5 =) 20$.
- Final assembly should look like the actual vehicle you have selected
 - No frame or wheels rolling around,.
 - If you are doing a car it has to look like that car.
 - Concept designs are accepted but has to be approved of from the instructor at the initial planning stage.
- Vehicle must be life size
 - No scaled model.

Submission Schedule

Date	Project Schedule	Submission
Jan 8 – 12	No Project Activity	
Jan 15 – 20		
Jan 22 - 27		
Jan 29 - Feb 3		
Feb 5 – 10	Introduction Assignment 1: Forming Project Group	No Submission this week
Feb 12 – 17	Assignment 2: Blueprint/Draft Vehical Dimension Submission	Assignment 1: Submission
Feb 19 - 24	Part 1	Assignment 2: Submission
Feb 26 - Mar 3	Part 2	Part 1: Submission
Mar 5 – 10	Part 3	Part 2: Submission
Mar 12 – 17	Spring Break	
Mar 19 - 24	Part 4	Part 3: Submission
Mar 26 - 31	Part 5	Part 4: Submission
Apr 2 – 7	Assembly Status & Discussion on Report	Part 5: Submission
Apr 9 – 14	Assembly Status & Discussion on Presentation	
Apr 16 – 21	<i>Project Full Package Submission & Project Presentation</i>	
Apr 23 - 28	Final Exam: Mon, Tue April 23, 24	

Submission Requirements (Part Submissions)

- Drawings and Part Files:
 - Drawing MUST be a PDF.
 - Solidworks Drawing Files will not be graded.
 - All the dimensions in the drawings should be in mm.
- Requirements:
 - Format = A(ANSI) Landscape.
 - Front, Top, Right Side, and Isometric Views.
 - Even if they look identical, INCLUDE THEM.
 - All Dimensions! (No dimensions on the isometric view).
 - Show the texture in the isometric view.
 - Your Name and Group Number.
 - Vehicle Name.
 - Part Name.
 - **MUST BE A PDF.**
 - **Everything should be uploaded in the Blackboard.**

Submission Requirements (Final Submissions)

- **Must Include:**
 - **All** SolidWorks Part Files (**Not PDF's**).
 - All parts and assembly files has to be in a single zip folder (Group-members included).
 - Report (Only submit 1 report per group).
- Make sure to Include
 - Assembly Solidworks file.
 - Assembly drawing PDF (**no dimensions**).
 - All updated part files. Make sure all the parts fit together. (some of your parts may not fit together, so modify them as necessary, and make sure to submit the modified version of parts).

Create Groups

- Each Group will have 4 members.
- Fill up the provided group form (**One per group**).
- The form is uploaded in Blackboard.

Questions?