ME 1403 Engineering Practice & Graphics

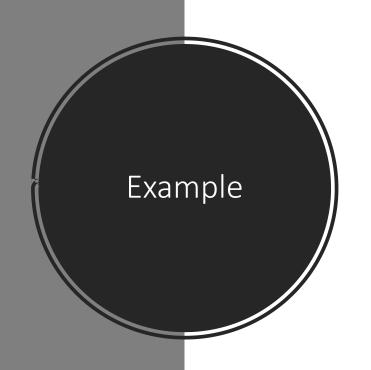
Group Project Guidelines

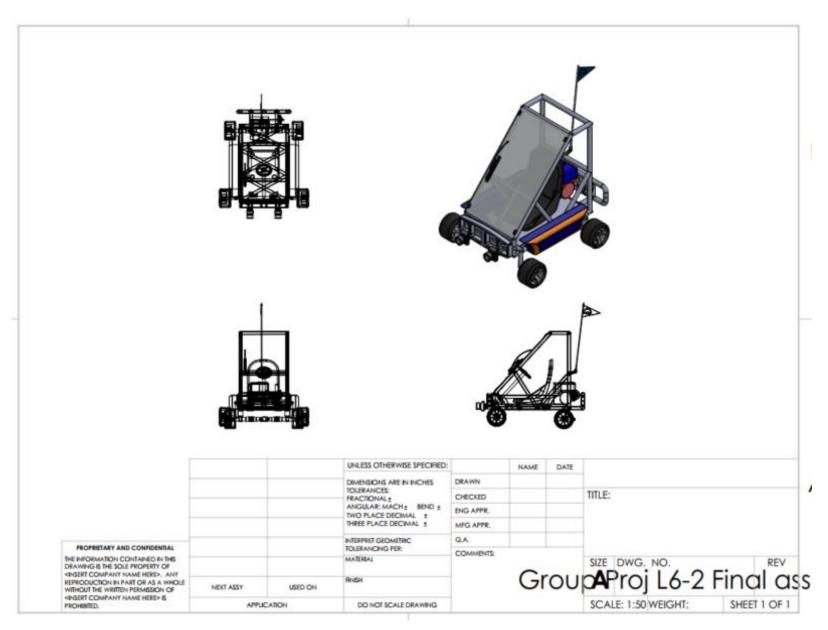
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Project?

- 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.





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 (4x5=) 20.
- All parts should have at least three (3) features!
- 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.



| | Date | Project Schedule (Assignment) | Submission (Sunday) |
|---------|-----------------|---|--------------------------|
| Week 6 | Sep 24 – Sep 30 | Introduction Assignment 1: Forming Project Group | No Submission this week |
| Week 7 | Oct 1 – 7 | Assignment 2: Blueprint/Draft Vehical Dimension Submission | Assignment 1: Submission |
| Week 8 | Oct 8 – 14 | Part 1 | Assignment 2: Submission |
| Week 9 | Oct 15 – 21 | Part 2 | Part 1: Submission |
| Week 10 | Oct 22 – 28 | Part 3 | Part 2: Submission |
| Week 11 | Oct 29 – Nov 4 | Part 4 | Part 3: Submission |
| Week 12 | Nov 5 – 11 | Part 5 | Part 4: Submission |
| Week 13 | Nov 12 – 18 | Assembly Status & Discussion on Report | Part 5: Submission |
| Week 14 | Nov 19 – 25 | Assembly Status & Discussion on Presentation | |
| Week 15 | Nov 26 – Dec 2 | Project Full Package Submission (Report, Presentation, Part files, Assemblies and Drawings) | |
| Week 16 | Dec 3 – 9 | Final Exam: Monday and Tuesday -December 3 & December 4. | |

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?