ME 1403 Engineering Practice & Graphics Fall - 2017

Lecture 1

Instructor:

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Engineering CAD Software's

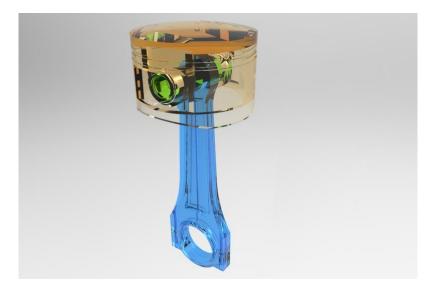
- Top End Market
 - a. CATIA by Dassault Systems
 - b. NX by Siemens PLM
- Mid level Market
 - a. SolidWork by Dassault Systems
 - b. SolidEdge by Siemens PLM
 - c. Inventor by Autodesk
 - d. PTC Creo (Pro-E) by PTC
 - e. Rhino
 - d. IronCAD
- Entry Level Market
 - a. AutoCAD
 - b. Google Sketchup Pro
 - c. DraftSight
 - d. SpaceClaim
 - e. Alibre
 - f. FreeCAD

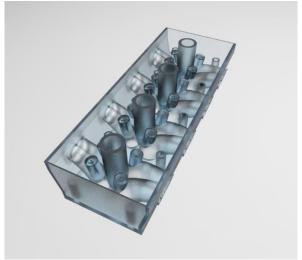
What is Solidworks?



Samples







Recommended Textbook

S. Tickoo, *SolidWorks 2016 for Designers*, 14th ed., 2016, CADCIM Technologies, ISBN: 978-1-942689-18-8.

Submission Rules

- Homework's are due at the <u>beginning of the first lab</u> of the following week (*More Discussion on next class*).
- Quiz's will be taken (More Discussion on next class).
- Submit everything via <u>Blackboard</u>.
- Copying your assignments are <u>prohibited</u>. If you do so, you and the individual you copied from will receive a <u>grade zero</u>, plus both of you will be referred for actions as described in the university's policy for academic dishonesty. (<u>Read Section 203 of the Student Code of Conduct 2013-2013 UTSA Information Bulletin.</u>)

Submission Rules

 Any submission after deadline will not be accepted and thus will receive a grade of zero.

Grading Criteria for Late Submission:

• Submission on Time : 100%

• Submission a week late : 75%

• Submission two week late : 0%

Submission Rules

- Naming Convention for your submission files:
 - (your myUTSA id)_(Number/Name of the HomeWork)
- For Example if your myUTSA id is "abc123" and You are submitting "HW1". Then your submission file name should be "abc123_HW1"

Emailing Regarding Problems

- Email either
 - through Blackboard
 - or at <u>shafnehal@gmail.com</u>
- Email between: 8:00 A.M. to 5:00 P.M.
- Subject line should follow the below mentioned convention:
 - [ME 1403: Engineering Practice & Graphics Fall 2017]_(Your myUTSA ID)_(Summery of your Issue)
- For Example if your myUTSA id is "abc123" and You are emailing regarding problem in "HW1". Then your email subject line should be:

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"[ME 1403: Engineering Practice & Graphics Fall – 2017]_abc123_HW1 problem"
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Any email that doesn't follow the above convention will not be responded.

Outline

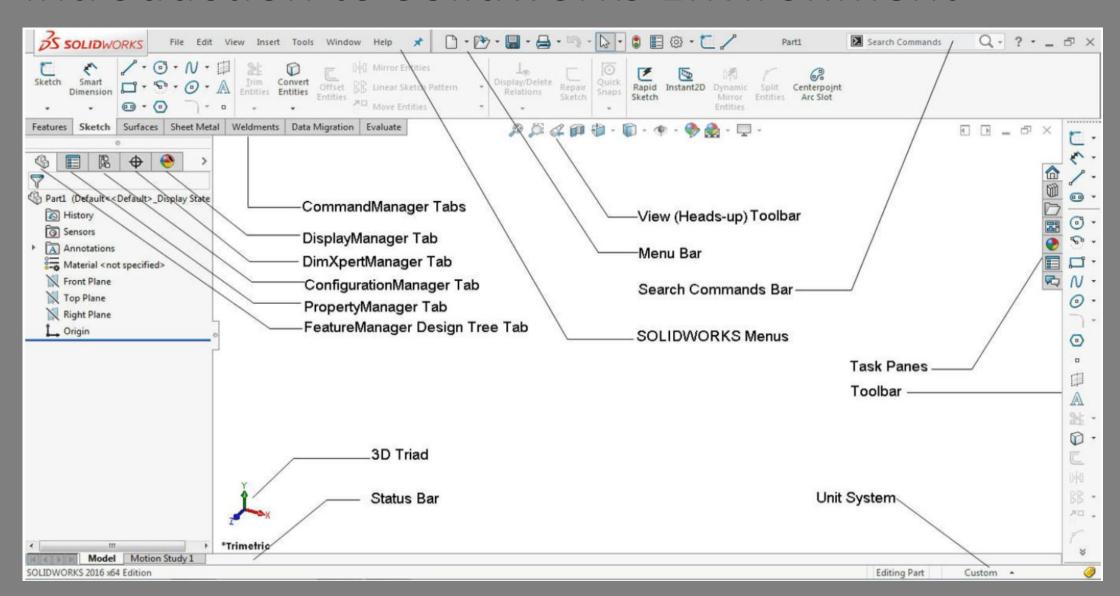
- Environment
 - Opening Solidworks
 - Introduction to Solidworks Environment
- What kind of Document?
 - Part
 - Assembly
 - Drawing
- Drawing Units (Use as per Instruction in the class)
 - Drawing Standard (ISO/ANSI)
 - Unit System (MKS/MMGS)

Solidworks

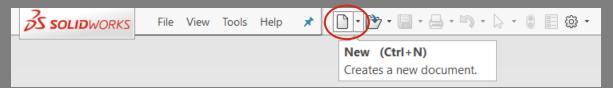
- You can get access to Solidworks via-
 - Lab Computers
 - myUTSA apps
 - Follow this pdf file.

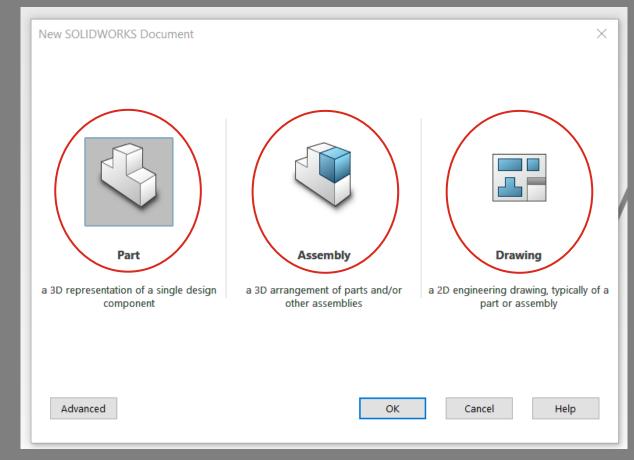


Introduction to Solidworks Environment

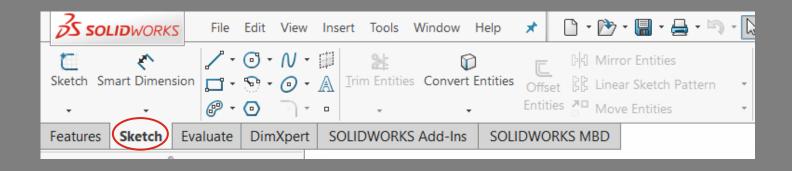


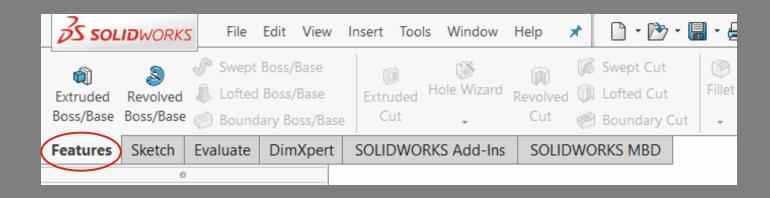
Creating New Documents



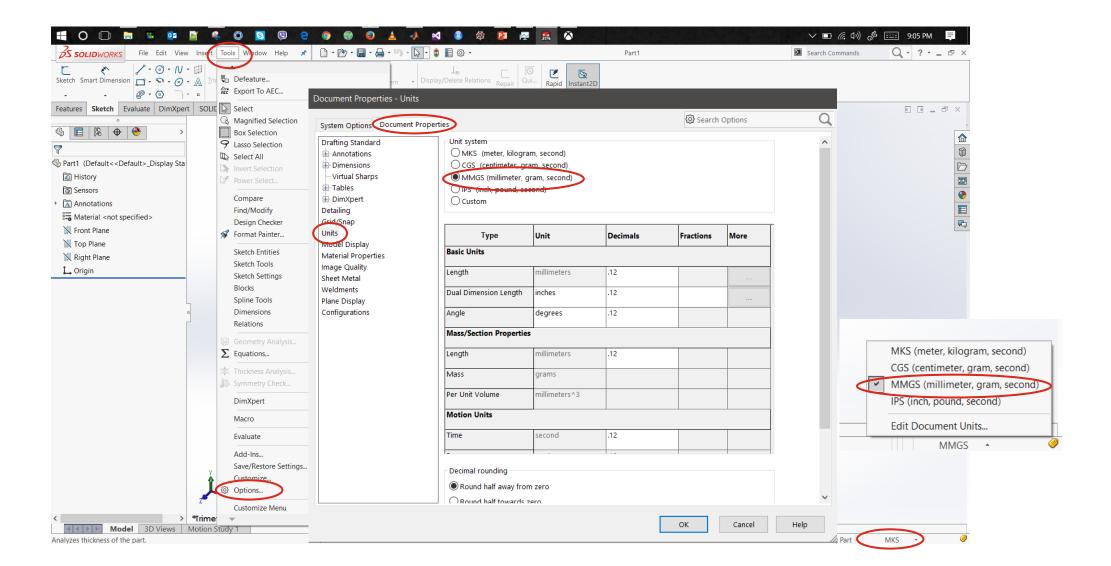


User Tabs/Pans





Changing the Unit of Document



Snap & Grid Setting

