

ME 1403 Engineering Practice & Graphics

# Lecture 1

Instructor:

Syed Hasib Akhter Faruqui

[Email: shafnehal@gmail.com](mailto:shafnehal@gmail.com)

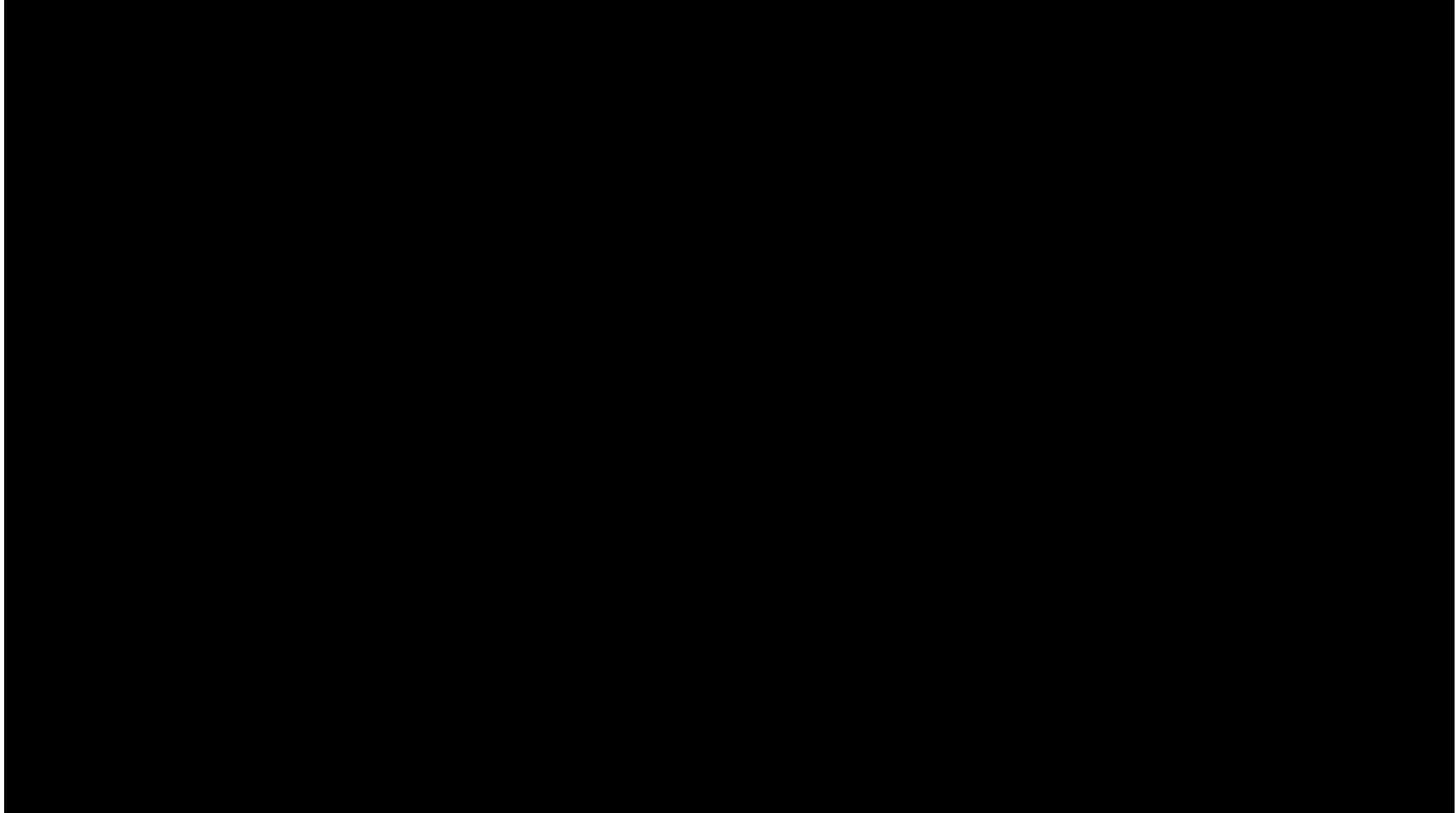
# Outline

- Engineering CAD Software's
- What is Solidworks?
- Text Book
- Rules and Regulations
- Environment
  - Opening Solidworks
  - Introduction to Solidworks Environment
- What kind of Document?
  - Part
  - Assembly
  - Drawing
- Setting up Units and Dimension Standard
  - Drawing Standard (**ISO/ANSI**)
  - Unit System (**MKS/MMGS**)
- Mouse Gestures
- Sketching
  - Plane

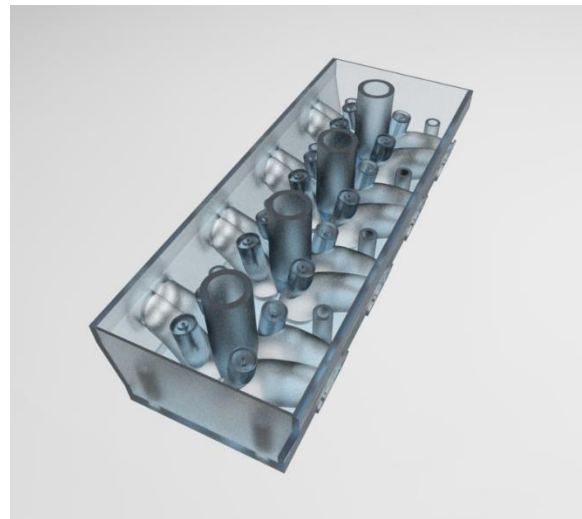
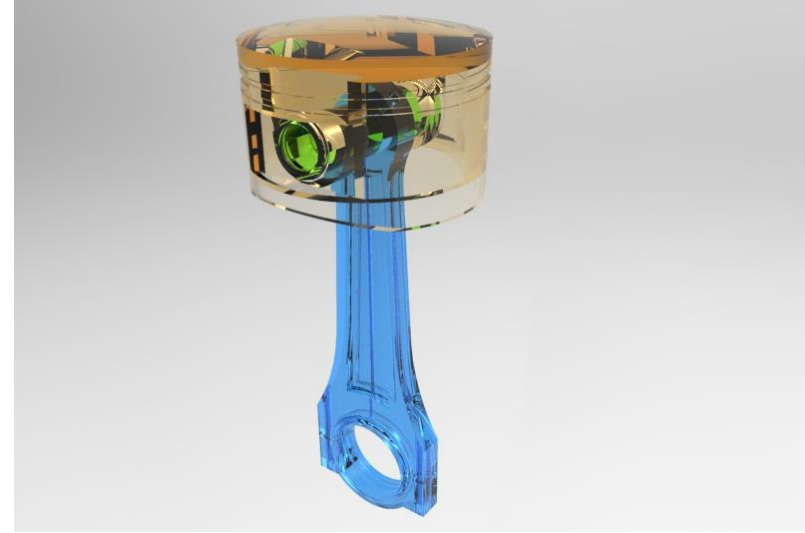
# Engineering CAD Software's

- 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, CAD/CIM Technologies, ISBN: 978-1-942689-18-8.

or

S. Tickoo, ***SolidWorks 2017 for Designers***, 15th ed., 2017, CAD/CIM Technologies, ISBN: 978-1-942689-75-1.

Lectures will be available at the following link

[http://www.shafnehal.com/ME1403/fall\\_2018/lecture\\_notes](http://www.shafnehal.com/ME1403/fall_2018/lecture_notes)

# Submission Rules

- Homework's are due **at the Sunday 11.59 P.M.** of the following week (*More Discussion on next class*).
- Quiz's will be taken (*More Discussion on later classes!*).
- Submit everything via **Blackboard**.
- Copying your assignments are **prohibited**. If you do so, you and the individual you copied from will receive a **grade zero**, plus both of you will be referred for actions as described in the university's policy for academic dishonesty. ([Read Section 203 of the Student Code of Conduct 2013-2013 UTSA Information Bulletin.](#))



# 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:
  - *(section)\_(your myUTSA id)\_(Number/Name of the HomeWork)*
- For Example if your in section, “**L1**”, your myUTSA id is, “**abc123**” and You are submitting, “**HW1**”. Then your submission file name should be, “**L1\_abc123\_HW1**”

# Emailing Regarding Problems

- Email either
  - through **Blackboard**
  - or at [shafnehal@gmail.com](mailto:shafnehal@gmail.com)
- 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 - 2018]\_(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:  
*“[ME 1403: Engineering Practice & Graphics Fall - 2018]\_abc123\_HW1 problem”*
- Any email that doesn't follow the above convention will not be responded.

Most Important Rule of the Class

**“Ask Questions!”**

# Solidworks

- You can get access to Solidworks via-
  - Lab Computers
  - myUTSA apps
    - Follow this [pdf file](#).



# Practice

- We will do some practices on Next Lecture!