

# Design Portfolio



Zinia Sultana Joti



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**Mechanical Engineering Graduate**

## Contact Information

Phone: 01736-089168  
Email: ziniasultana032@outlook.com  
Website: ziniasjoti.me  
Address: Chattogram, Bangladesh

## Reference

### Noushad Sojib

Assistant Professor  
Dept. of CSE, NEUB  
Mobile: +8801738610213  
Email: noushad.sust@gmail.com

### Mohammad Samiul Hasan

Deputy Assistant Director  
Walton Hi-Tech Industries PLC  
Mobile: +8801608984741  
Email: samiulhasan823@gmail.com

## Objective

To gain a dynamic career that enables me to apply my technical and organizational abilities to benefit, but also to provide valuable engineering experience and acquaintance with well-known tools and techniques that will assist me in my future professional aspirations.

## Education

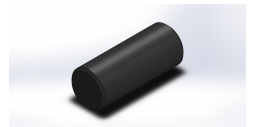
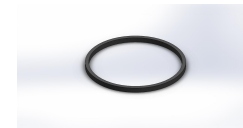
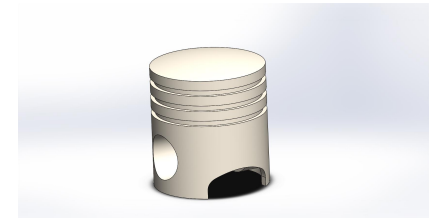
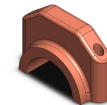
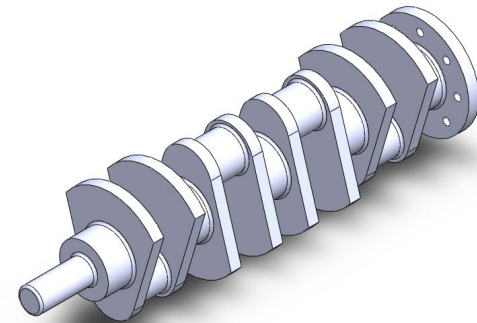
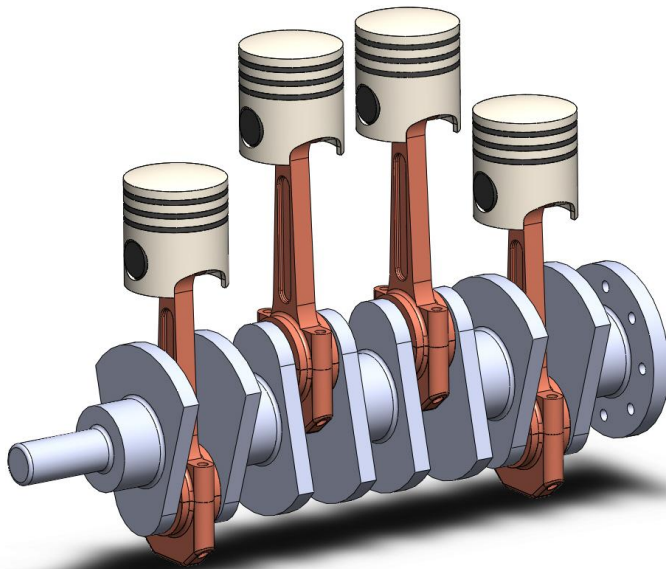
### BSc (Engg) in Mechanical Engineering

Shahjalal University of Science Technology, Sylhet.  
CGPA 3.37 (out of 4.0)

**Relevant Coursework:** Mechanical Engineering Drawing - I & II, Machine Design - I & II, Refrigeration and Building Mechanical Systems, Numerical Analysis, Applied Engineering Mathematics, Engineering Mechanics, Fluid Mechanics, Solid Mechanics.

## Expertise

**CAD & CAE:** Solidworks, AutoCAD, Abaqus, MATLAB  
**Graphic Design:** Adobe Illustrator, Adobe Photoshop,  
**Programming Language:** Python, GNU Octave  
**Office:** MS Excel, MS Powerpoint, MS Word, Google Docs



### Learning Key Points:

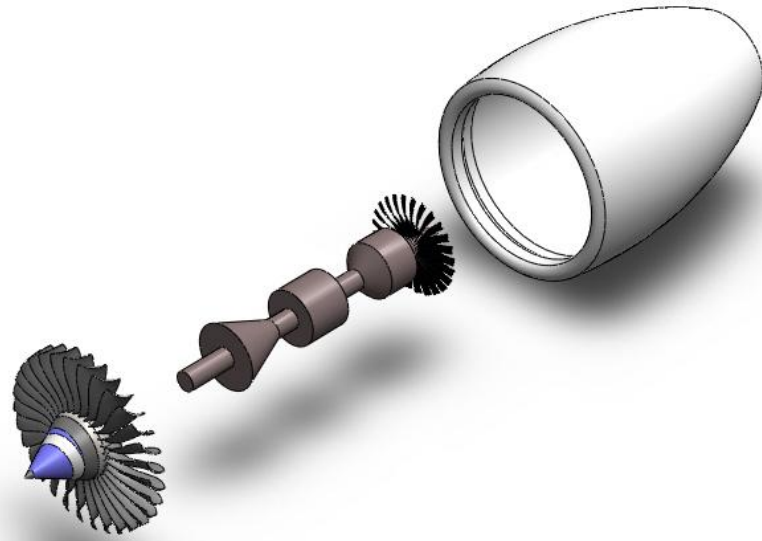
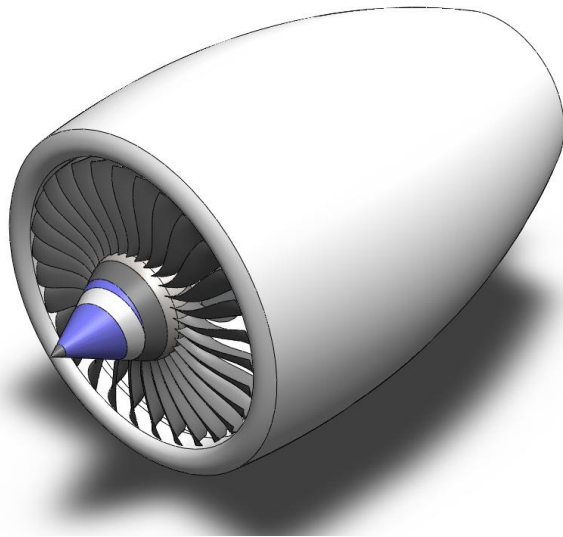
Sketch tools

Assembly Tools

Mates

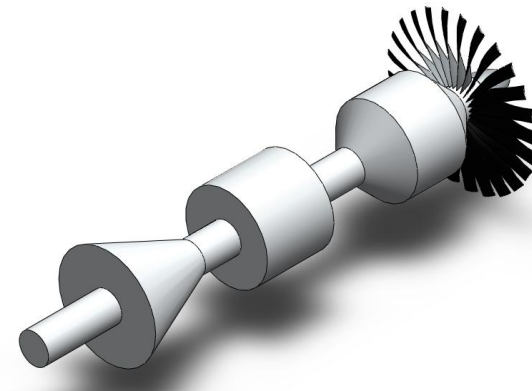
Different Features.

**Project Name: In-line Engine Crankshaft - Piston Assembly**

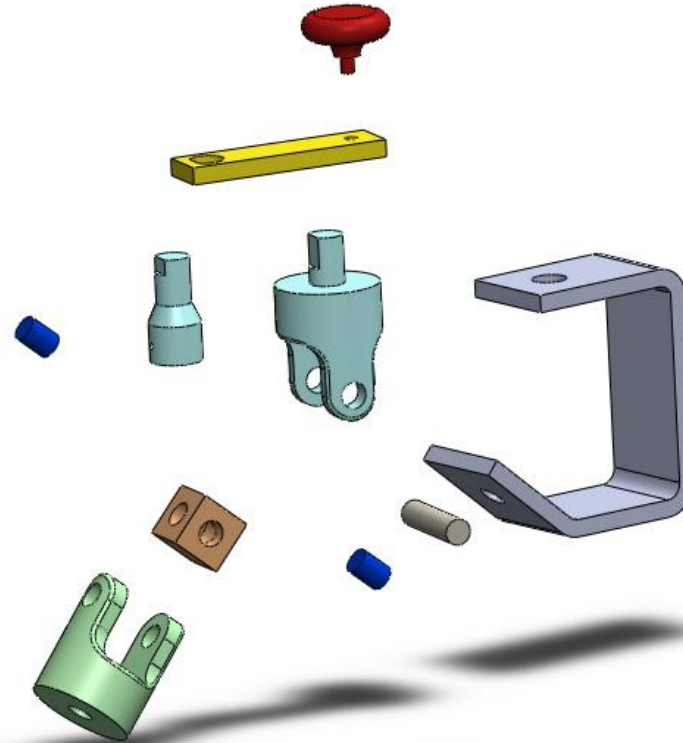
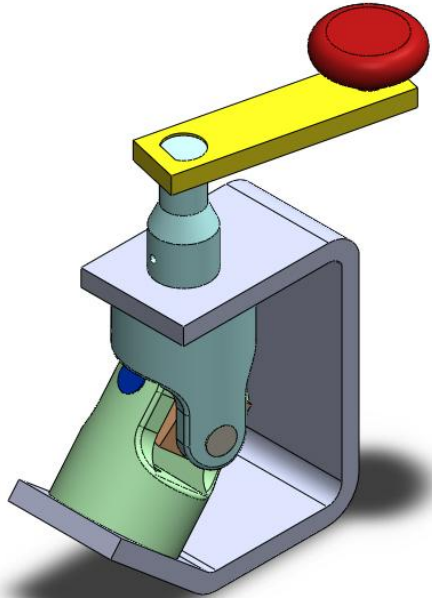


### Learning Key Points:

- Sketch Tools
- Assembly Tools
- Exploded View
- Mates
- Different Features



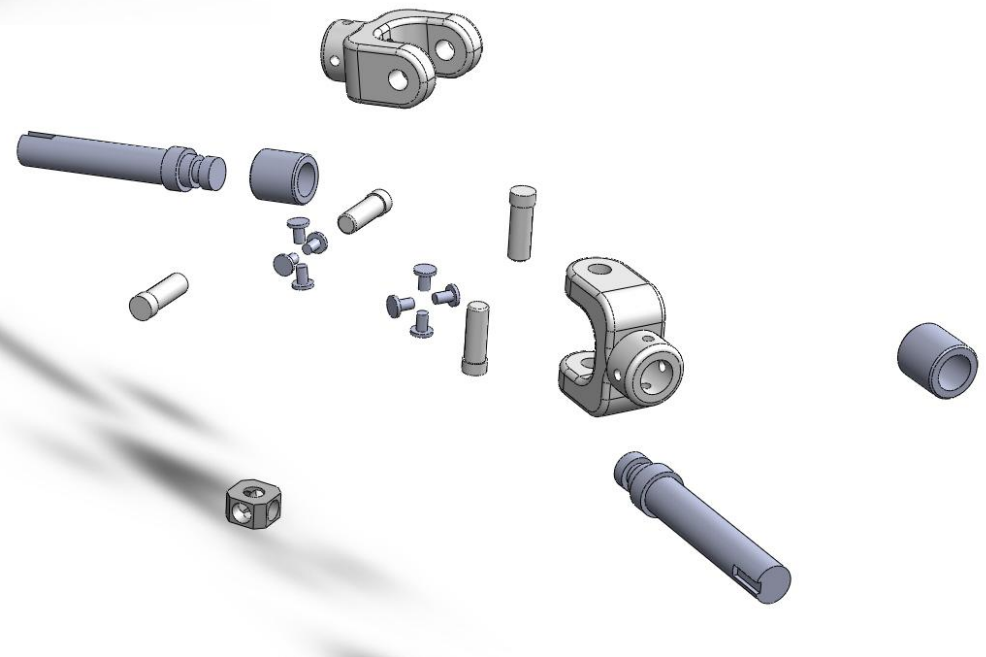
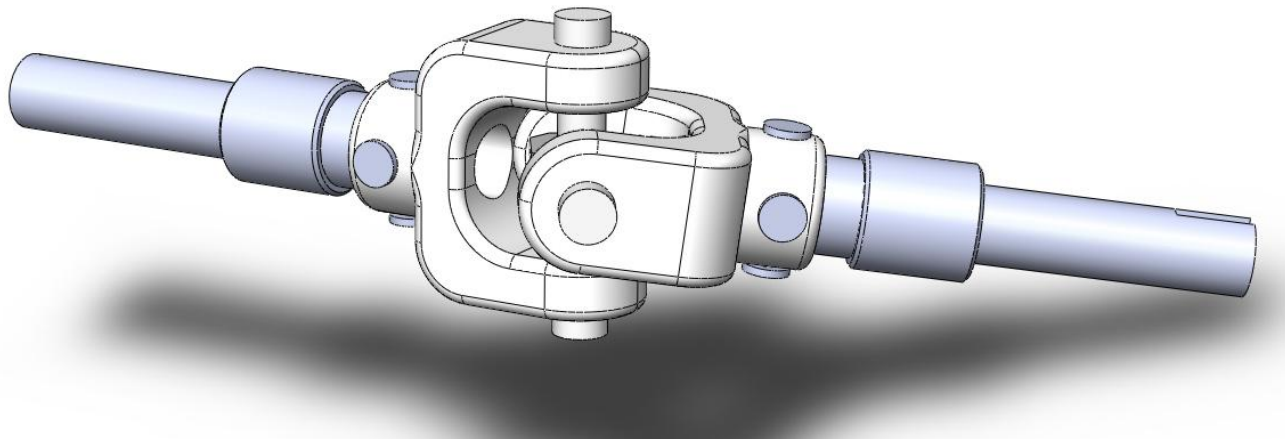
**Project Name: Jet Engine Assembly**



### Learning Key Points:

- Sketch Tools
- Assembly Tools
- Exploded View
- Mates
- Different Features

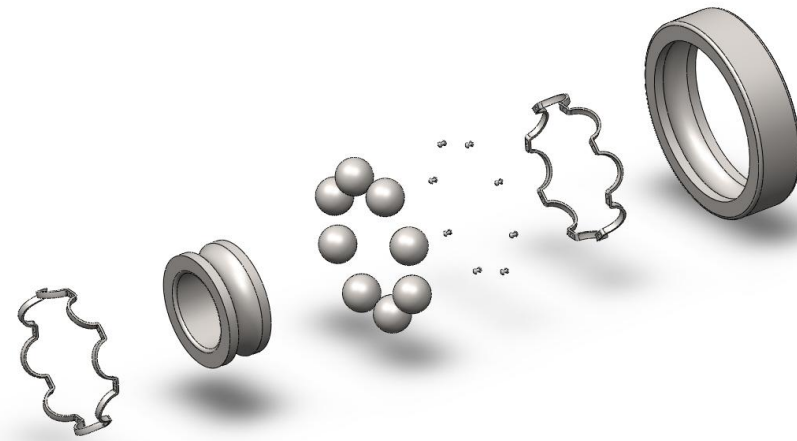
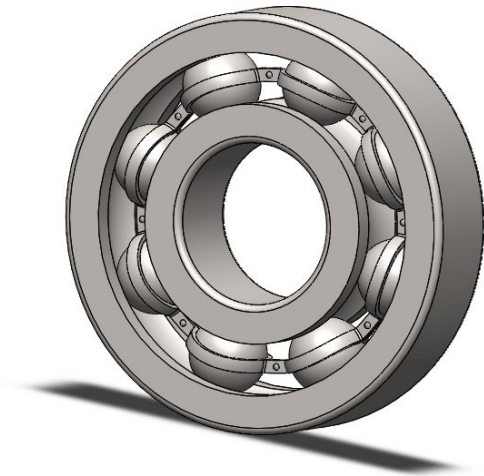
**Project Name: Universal Joint Type 01**



### Learning Key Points:

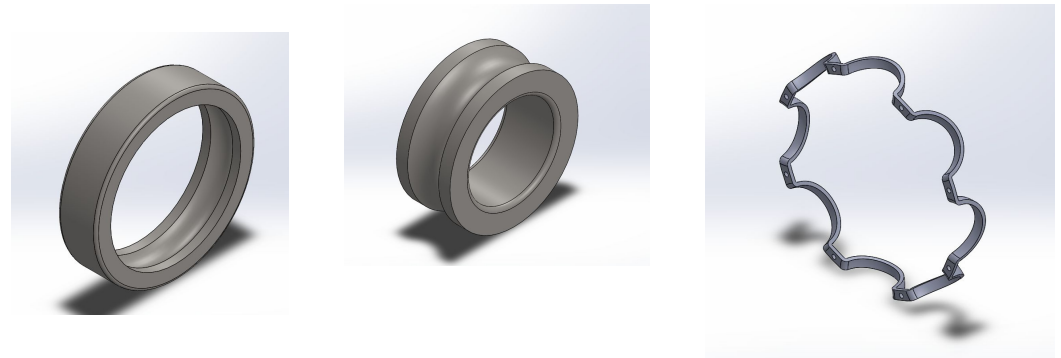
- Sketch Tools
- Assembly Tools
- Exploded View
- Mates
- Different Features

**Project Name: Universal Joint Type 02**

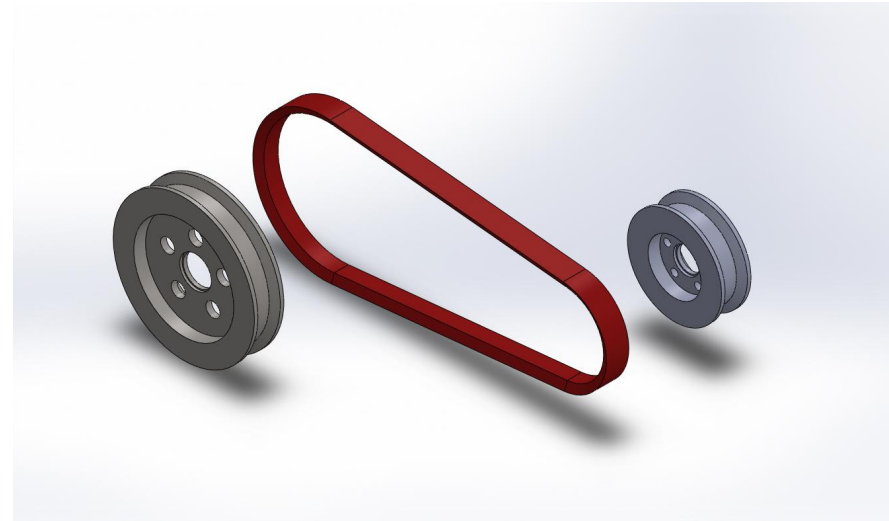
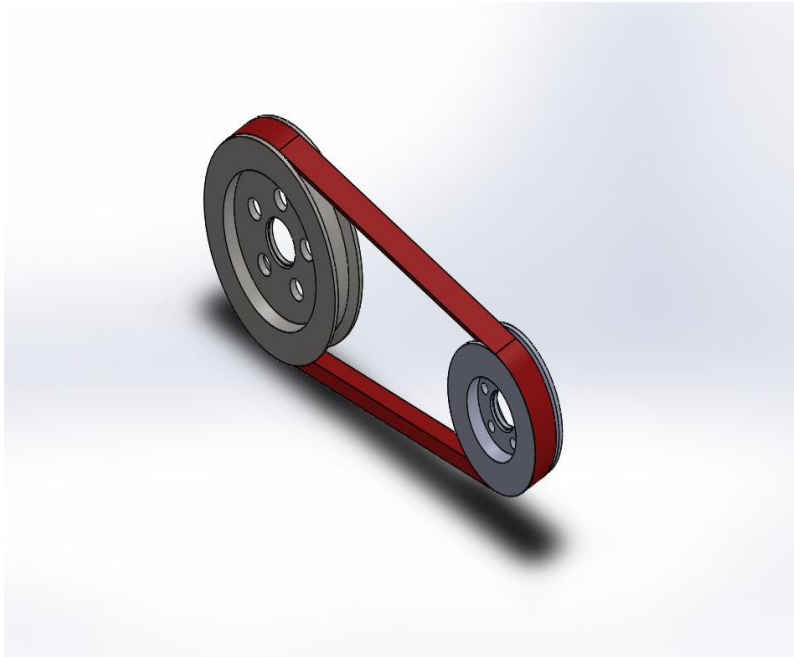


### Learning Key Points:

- Sketch Tools
- Assembly Tools
- Exploded View
- Mates
- Different Features



**Project Name: Ball Bearing**



### Learning Key Points:

Sketch Tools

Assembly Tools

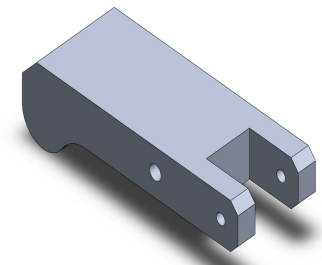
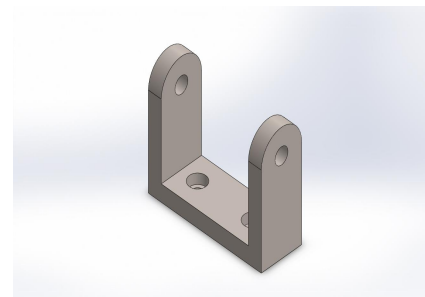
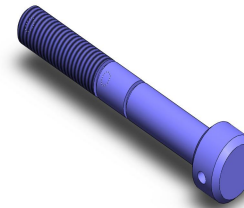
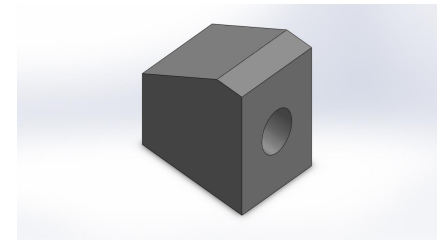
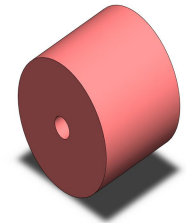
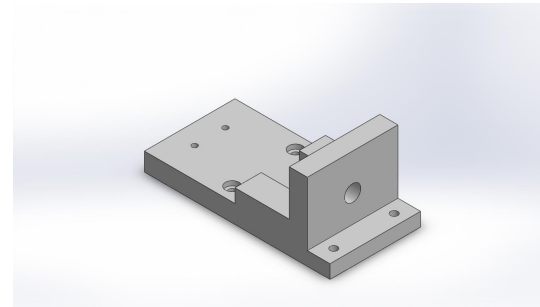
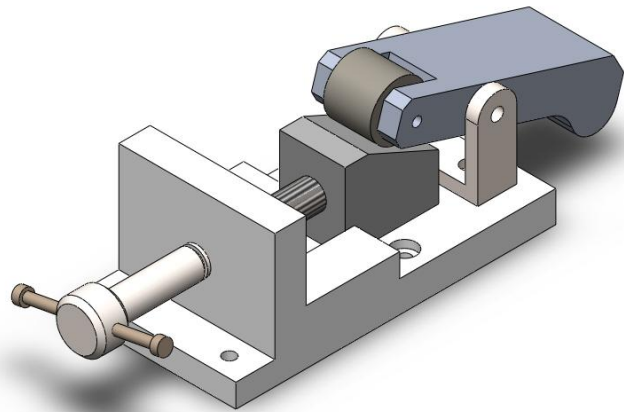
Exploded View

Mates

Different Features

**Project Name: Belt - Pulley Drive**





### Learning Key Points:

Sketch Tools

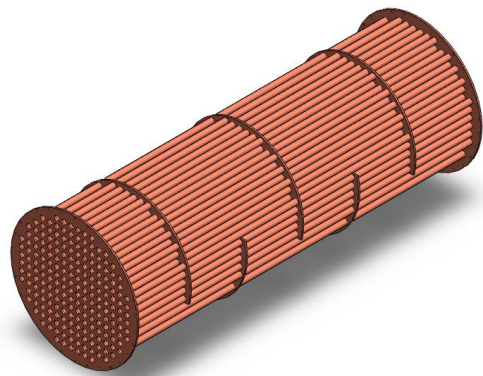
Assembly Tools

Exploded View

Mates

Different Features

**Project Name: Clamping Device**



Heat Exchanger - Tube  
(incomplete design)



Internal Spur Gear

## Miscellaneous Projects

**Thank You for your time.**