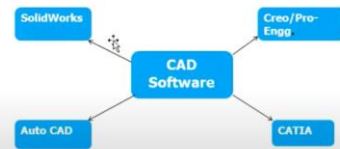


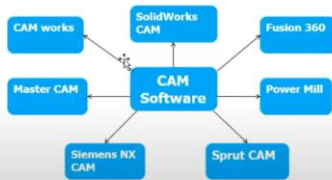
# SOFTWARE FOR **MECHANICAL ENGINEERS**

BY- PRABHAT KUMAR

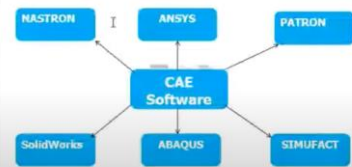
## Different CAD Software



## Different CAM Software



## Different CAE Software



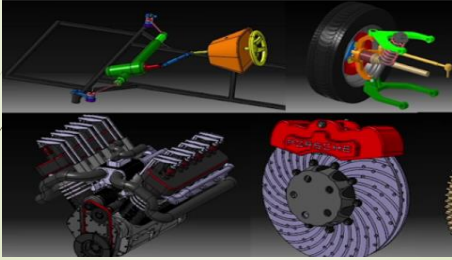
## Application of CAE Software



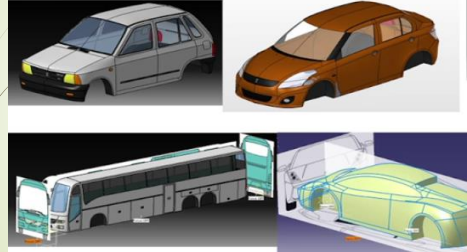
## TOP 5 MAJOR INDUSTRIAL PRODUCT DESIGN SKILLS:

1. Automotive 3D Part Component Design & Analysis
2. Automotive Body Shape Design & Analysis
3. Industrial Machinery Design & Analysis
4. Sheet Metal, Punching, Molding & Casting 3D Part Component Design & Analysis
5. Consumers Product Design & Analysis

### 1<sup>st</sup> Industrial skill: Automotive 3D Part component design & Analysis



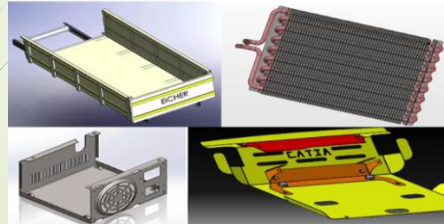
### 2<sup>nd</sup> Industrial skill: Automotive Body Shape Design & Analysis



### 3<sup>rd</sup> Industrial skill: Industrial Machinery Design & Analysis



### 4<sup>th</sup> Industrial skill: Sheet metal, Punching, Molding & Casting 3D Part component design & Analysis



### 5<sup>th</sup> Industrial skill: Consumers Product Design & Analysis



#### CAD

1. CATIA
2. PTC CREO
3. NX CAD
4. SolidWorks
5. Inventor
6. Auto CAD MEP

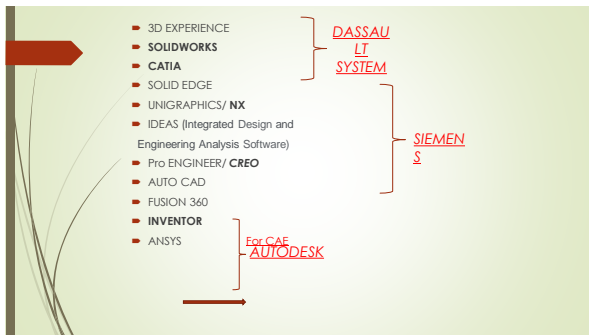
#### CAM

1. NX CAM
2. Master CAM

#### CAE- FEA/CFD

1. ANSYS Workbench
2. NX Nastran
3. HyperMesh
4. Ansys Fluent





**SOME FREE RESOURCES:-**

- **SOLIDWORKS**  
<https://youtube.com/c/solidworks>  
<https://www.youtube.com/channel/UCtwaWPOXEbysZLh1rrPzwFw>
- **CADD CENTRE DESIGN STUDIO**  
<https://www.youtube.com/channel/UCIS3DSkwW8HY0qKRYLI-ILQ>
- **CAD CAM SOLUTION MEERUT**  
[https://www.youtube.com/channel/UCXhXhUSshkr4\\_oop2eZyHxq](https://www.youtube.com/channel/UCXhXhUSshkr4_oop2eZyHxq)
- **CAD CAM TUTORIAL**  
[https://www.youtube.com/channel/UCjd\\_zlvY1Qymk0dPx3vTJcA](https://www.youtube.com/channel/UCjd_zlvY1Qymk0dPx3vTJcA)

**PROJECT BASED COMPANIES**

- LARSEN & TOUBRO
- TATA PROJECTS LTD.
- THYSENKRUPP
- HS INFRAPROJECTS LTD.
- QUILON REAL INDUSTRIES
- ITC LIMITED

**PRODUCT BASED COMPANIES**

- MANORMAIN INDUSTRIES LTD
- GRASIM INDUSTRIES
- VEDANTA RESOURCES
- HINDALCO INDUSTRIES
- ASIAN PAINTS LTD.
- SHIRIRAM GROUPS
- JK GROUPS
- HINDUSTAN UNILEVER

**AUTOMOBILE, SALES & SERVICES**

- ASHOK LEYLAND
- TATA MOTORS
- TOYOTA
- BOSCH
- TVS
- BAJAJ
- SUZUKI
- HYUNDAI
- REYNOLDS
- KIRLOSKAR
- BHARAT BENZ
- ROYAL ENFIELD
- SONALIKA GROUPS
- HERO MOTOCORP
- FORCE MOTORS
- GENERAL MOTORS
- SONALIKA GROUPS
- MAHINDRA & MAHINDRA

**AUTOMOTIVE COMPONENTS MFG**

- SATYAM AUTO COMPONENTS

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