

Mahvi Malik Shahzad

mahvimalikshahzad@gmail.com

Mob.7350374200

Total 19 year of teaching design and development and production experience in engineering industry of which two years in teaching, seven years in field of computer aided design. Worked extensively on 3D solids, sheet metal and surface modelling and 2D drafting using NX4, Pro/E, Ideas, Solid works and Catia manufacturing, Simulation.

Currently working in MMANTC from june 2014 as asst. professor ,Mansoor, Malegaon

Qualification:

Master of engineering in design from SPPU In 2017 with first class

Bachelor of Engineering in Mechanical from university of Pune with first class in 1997

Diploma in business management from university of pune with first class in 2000

Master certificate in CAD/CAM/CAE

Skill Profile:

Windows Xp,Microsoft office etc.

Successfully completed training programme in following

- Unigraphics(NX4)
- Pro/E basic and advance
- Pro/manufacturing
- Pro/E wildfire 5
- Ideas
- Catia V5
- Solid works
- Icem surf
- Master Cam
- Autocad 2013

Proficient in following cad soft wares

PTC Pro/E

- Advance part modelling
- Assembly
- Drafting
- Advance surface modelling
- Pro/sheet metal
- Pro/Mould

- Pro/Mechanica

Unigraphics(NX4)

- **Modeling**
- **Assembly**
- **Drafting**

Catia V5

- **Part modeling**
- **Assembly modelling**
- **Drawing generation**
- **Simulation**

Professional Experience:

May 2011 to June 2014

Upgrade computers

Trainer

January 2009 to Feb 2011

Jamea Polytechnic, Akkalkuwa

Head of Department (Mechanical and automobile)

March 2007 to Nov 2008

Mahindra Engineering Design and development company,Chinchwad,Pune

Senior Design Engineer

Mahindra Engineering Design and Development Company is an ISO 9001 certified company

, which provides design solution to Navistar Inc.USA for truck division

Job responsibilities:

QC of installation Drawing, Part drawings, Subassembly,Layout and master model checking ,value engineering .some of projects given below.

- **Packaging of Dura Star model for US 2010 cooling system.**

Customer have given the old layout number of dura star series In that we have Changed the engine as per requirement .By changes in engine there is changes in cooling tube and turbo pipes which are designed by us.

- **Value engineering of mega Bracket of Dura star 4000I series**

We reduce the weight of mega bracket by 1.5Kg. Customer has given the master model number we have taken mega bracket and worked on that.

- **Value engineering of Cab mounting bracket dura star 400I series**

We reduce the weight of mounting bracket by 0.5 kg. Customer have given the master model number we have taken mega bracket and worked on that.

- **Mexican emission 2008.5**

The scope of the project was to design turbo pipes and cooling pipes ,Which is equivalent to Euro2007

- **Value engineering of spring mounting pad of Dura star 4000I Series**

We have reduced the weight of spring mounting pad by 1.5 Kg.

- **Creation of Master model**

Scope of project was to create the master model using the given feature code. We are searching the selections which are applicable as per the given feature code after searching code the selections we are adding them in layout ,after creation these are to the master in such a way master model is created

Jan 2004 March 2007 Access Cadd Nasik

Senior design engineer

Access Cadd is one design consultancy in Nasik which provides CAD/CAM solutions to Crompton Greaves, Mico, Schnieder, ABB etc.

Job responsibilities:

3D modelling and surfacing, assembly drawing generation reverse engineering

Some of projects given below

Analysis of Sleeve Yoke.

Customer: Mahindra Sona, Nasik

Job responsibilities:

Applying torsional load component

Apply boundary condition to model using pro mechanics

Stress calculation

Stress calculation by change in dimension

Modeling of plastic component

Customer: Access plastic Nasik

Job responsibilities:

Surfacing and conversion of surface to solid model

Modeling and detail of sheet metal component

Customer: Crompton greaves Nasik

Job responsibilities:

The part is modelled by Pro /Sheet metal after modelling we given the flate pattern of the model.

Modeling and Analysis of electrical component

Customer: Crompton greaves Nasik

The scope of project was to find the stresses in work area

Job responsibilities:

Modeling of the component

Applying boundary conditions to the model

Analysis of the model

Modeling, detailing and analysis of valve

Customer: ABB Nasik

The scope of project was to find thickness of valve for different pressures

Job responsibilities:

Modeling and assembly of components

Aalysis for different pressures

Dec 2001 to Nov 2003

Rolta india LTD,Mumbai,India

Executive (Mechanical design and automation Department)

Rolta India LTD is ISO 90010certified Company, Which provi8des software and hardware training and related service headquarter in Mumbai, India

Job responsibilities Includes 3D modelling, Surfacing, Assembly, Drawing generation, Reverse engineering, Static and thermal analysis using pro/mechanica.

Design and Development of Mosquito delete unit

Customer: Coleman Inc. USA

Job responsibilities:

Conceptualization and designing

Enhancement in aesthetic of product

Component design

Modeling of component using pro/e

Manufacturing drawing creation

Customization of product as per various model size, reverse engineering and design of double burner propane gas stove.

Customer: Coleman Inc. USA

Job responsibilities:

Reverse engineering of product using pro scan tool

Enhancement in aesthetic of product

Redesign of Component design as per manufacturing ease

Modeling of component using pro/e

Built up assemblies as per production ease

Manufacturing drawing creation

Customization of product as per different size

Modeling Lantern Case

Customer: Coleman Inc. USA

Job responsibilities:

Scanning of component from third party output of the scanning is in form of point cloud data, than we have filtered the points after filtration the points are converted in curves and curves are converted in to the surfaces those surfaces are finally converted in to solids.

Reverse Engineering of propane gas cylinder

Customer: Coleman Inc. USA

Job responsibilities:

Scanning of component from third party output of the scanning is in form of point cloud data, then we have filtered the points after filtration the points are converted in curves and curves are converted in to the surfaces those surfaces are finally converted in to solids.

Modeling of agricultural equipments assemblies

Customer: J.A. freeman & sons Inc. USA

Job responsibilities:

3D modeling, drawing generation and assembly

Modeling of complex rotor motor parts

Customer: J.A freeman & sons Inc. USA

Job responsibilities:

Surfacing, 3D modeling, drawing generation

Modeling of aerospace industry equipment

Customer: Allenia. Italy

Job responsibilities:

3D modeling, drawing generation and assembly

Modeling of medical equipments

Customer: Philips Medical System. Holland

Job responsibilities:

3D modeling, drawing generation and assembly

2001 to Dec 2001 & 2004 to 2007 Access Cadd Nasik

CAD engineer

Access Cadd is one design consultancy in Nasik which provides CAD/CAM solutions to Crompton Greaves, Mico, Schnieder, ABB etc.

Job responsibilities:

3D modelling and surfacing, assembly drawing generation reverse engineering

July 1997 to Dec 200 Premier engineers, Daman

Production Engineers

Premier Engineers is one of the manufacturing industry which manufactures texturising machines eg 2 for 1 Yarn twister

Job responsibilities: Achievement of production target consistently

Maintain quality of product

Inline inspection record

Maintaining raw material record

**Permanent Address: S.No.157, P.No.98, Nayapura ward, Muslimpura,
Malegaon ,pin code 423203**

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