

# Shiva Deshmukh

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**Objective:** Seeking fulltime opportunity with a focus on Mechanical Design Engineering.

## **Educational:**

- **Master of Science in Mechanical Engineering** (Jan 2010-May 2012)  
University of Texas at Arlington. (GPA:- 3.33/4.00)
- **Bachelor of Engineering in Mechanical Engineering** (Aug 2005-July 2009)  
G.H. Rasoni College of Engineering, Nagpur University (First Class)

## **Thesis work:**

**Title: Illustration of fundamentals of mechanical vibration using computable document format  
Mechanical Engineering Department University of Texas at Arlington (Spring 2011-Spring 2012)**

- Worked on modeling different systems such as quarter car model
- Mathematica was used to create illustrations that are user interactive and its possible to change different boundary conditions and observe the results
- All results were combined to make a complete tutorial
- In order to be distributed freely they are converted to .cdf format.

## **Internship:**

**Central Institute for Cotton Research**

**(Aug, 2009-Dec2009)**

- Responsible for complete 'New Product Design Cycle'.
- Used Pro E/AutoCAD and ASME Codes to ergonomically design new agricultural equipment and tools.
- Responsible for 2-D drawings and Bill of Materials. Working knowledge of GD&T
- Helped in testing, prototyping and root cause failure analysis of new designs.
- **Achievement** : Design of fertilizer applicator as a blade harrow attachment which proved to be cost-effective, saved labor and time up to 25% and was selected for 'Technology Mission for Cotton' annual report 2009-2010.

## **Research Projects:**

- **Design and Analysis of Bike Frame.**  
Designed and Optimized a sheet metal motor cycle frame to reduce the weight of a motor cycle using SolidWorks.5%-7% of reduction was obtained.  
Also performed structural and FEA analysis.
- **Design and Analysis of 3" Ball Valve.**  
Designed and assembled components of ball valve using SolidWorks. Analysis was done for the working pressure of 750 psi using tests like Shell Test and Leak Test for the application of oil field or hydro flow.

## **Vocational Training:**

- At Bhilai Steel Plant, Bhilai (Whole Operations of Steel Plant).
  - Studied Ore Handling plant & its layout.
  - Worked at Rail Mill and Plate Mill unit.

**Computer Efficiency:**

- Modelling & analysis software: Mathematica, Pro E, SolidWorks, Matlab, Auto CAD, Ansys.
- Operating systems :Windows (MS Office), MAC.
- Programming skills :C.

**Relevant Courses**

- Electronic Packaging , Advance Finite Element Method, Gas Dynamic.
- Finite Element Method, Control Systems and Components, Engineering Analysis II.
- Convection Heat Transfer, Structural Aspect of Design, Engineering Analysis I.

**Activities & Achievements:**

- National level paper presentation on “Experimental study on Electrochemical Micromachining” in 2009.
- Organized an Event called ROBO WARS at Techno-vision 2009.  
(A National level Technical Symposium)
- Organized an Event called LAN GAMING at Techno-vision 2008.  
(A National level Technical symposium)
- Presented research paper on “Nano Technology” at Govt. College of Engineering, Pune 2006.

**Personnel Skills:**

- Managerial Skills.
- Customer Handling.
- Adaptable.
- Team Worker.

- ❖ Recommendation available on request
- ❖ Transcripts available on request