

## **OBJECTIVE**

Mechanical Engineering graduate with demonstrated skills in the field of Computer-Aided Design (CAD), Finite Element Analysis (FEA), Cost Efficient Design, Assessment & Design Improvement, Creative Design and Project management.

## **PROFILE**

- Certified in **6 SIGMA DMAIC Green Belt**.
- 5 years of work experience as **Design and Manufacturing research engineer**.
- Certified in **Geometrical Dimensioning & Tolerance** based on ASME Y14.5M-1994 Standards & Drafting Standards.
- Certified in **Design FMEA (Failure Mode and Effects Analysis)**.
- Adept in **3-D modeling** skills with experience of over 6000 hrs in **Pro/E Wildfire 3.0** and 1500 hrs in **Auto Cad 2008**.
- Proficient in using databases like **HVC, EDS, Team Center Enterprise, REDI, WECAP** and **WPD**.
- Theoretical knowledge in the field of **Structural Mechanics, Vibrations** and **Heat Transfer**.
- Experienced in performing finite element analysis using **ANSYS, ABAQUS, PRO/MECHANICA** and **MATLAB**.
- In-depth knowledge of **machining, casting** operations, **CNC** programming, **CMM** and **reverse engineering**.
- Familiar with design for manufacturability (**DFM**) and design for assembly (**DFA**).
- Detail driven with good communication skills and proven success interfacing with diverse population.
- A dedicated professional and an analytical problem solver.

## **PROFESSIONAL EXPERIENCE**

### **Graduate Engineering Trainee, ABC Inc, Any Town, NY**

May 06 – Dec 08

- Prepared production plan for manufacturing unit.
- Inventory control of finished and semi finished goods which are ready to release in market.
- Material handling of raw material which is used for production of cast iron components.
- Conducting Kaizen and 5S activities to eliminate waste on shop floor.
- Producing monthly reports, preparing and planning weekly and monthly schedule for manufacturing unit.
- Sales and marketing, quoting for clients and scrap procurement from various vendors.
- Working closely with other specialties including: quality control of raw material, finishing department, and operating crew.

### **Graduate Engineer – XYZ Corp, Any Town, NY**

Jan 05 - May 06

- Office/ File Management.
- Analyzed pipe models and ran acoustical test.
- Created graphs charts for references and final reports.
- Managed department correspondence, travel, meetings, and conferences.
- Used Microsoft Office efficiently.
- Drafting-AutoCAD, Bentley Products, and PULS.
- Obtained Transportation Worker Identification Credential (TWIC).

### **Graduate Research Engineer – BCD Inc., Any Town, NY**

Aug 03 - Jan 04

- Quality inspection of composites materials, adherence to ASTM standards
- Developed routing and non-conformance reports for various products.
- Identified and analyzed various sources of variation in surface finish, Layup, Material types using Design of Experiments (DOE).
- Applied the principles of 5S like visual controls, shadow boards and red tagging to reduce the search time for tools and fixtures.
- Involved in the time motion study for the process improvement.
- Conducted composite panel drawings using AutoCAD and generated data sheets for various customers.
- Analyses of the entire process flow by coordinating with interrelated departments.
- Hands on experience in Composite lay-up and tabbing process.

## EDUCATION

**New York University** (Mar 2009)

Specialization: Design and Manufacturing

MS in Mechanical and Industrial Engineering

**New York Technological University at New York, NY** (Nov 1999 – Apr 2003)

BS in Mechanical Engineering

### ACADEMIC PROJECTS:

### COMPUTER SKILLS

*Mechanical packages*

Pro/Engineer Wild Fire V3, Pro/E Mechanica, CATIA™ V4, UG NX, ANSYS™ 10.0, ABAQUS, AUTOCAD 2008, SolidWorks 2008, NASTRAN and IDEAS.

*Operating systems*

MS Windows (Windows 98/ME/XP, Windows NT 4.0/2000) and DOS 6.2

*Internet Development*

Macromedia Director8, Photoshop, Dream Weaver, Fireworks and Flash

*Programming*

MATLAB 7.0.1, C, C++, Data Structures

### HONORS and ACTIVITIES

- Ranked among top two in the class in the Mechanical Engineering Department
- Member, Indian Students Association (ISA)
- Member, Student Activities Committee
- Academic excellence scholarship through out Master and Bachelor programs
- Received Certificate of Appreciation for my work
- Received Editor's Choice Published Poet Award from The International Library of Poetry.

**REFERENCES:** Available on request