

# Madhavi Kadam

## Mechanical Design Engineer - Bogue Systems Inc

Newbury Park, CA - Email me on Indeed: [indeed.com/r/Madhavi-Kadam/89181d24a8ba05cf](https://www.indeed.com/r/Madhavi-Kadam/89181d24a8ba05cf)

### WORK EXPERIENCE

#### Design Engineer

C M Furnaces - Bloomfield, NJ - May 2013 to March 2015

- Evaluate materials and develop machinery and processes for the manufacturing of materials to particular specifications.
- Develop new uses for known materials
- Plan and design machinery and processes for the manufacture of furnaces.
- Read and interpret technical drawings
- Confer with engineers and other personnel to implement operating procedures.
- Recommend design modifications
- Investigate equipment or production failures and difficulties.
- Develop and test models of alternate designs and processing methods.

#### Mechanical Design Engineer

Bogue System Inc. - Paterson, NJ - March 2011 to April 2012

on design of mechanical packaging for electromechanical components such as PCU, UPS, ES & SBC cabinets using Solidworks-2010, PDM.

Environment: SolidWorks 2011, PDM, AutoCAD 2008, MS Office 2007

#### Roles & Responsibilities:

- Managed all phases of the design such as conceptualization, design and development of enclosures, electrical component packaging layouts, mechanical structural mounts and fixtures, Trays, Card-cage using Solidworks 2010 based on both written and verbal technical specifications.
- Developed 3-D models and drawings with bills of materials along with ECNs and revisions (As per ASME Y14.5M)
- Expertise in sheet metal design, structural parts and assemblies.
- Carried out mechanical inspection on parts, sub-assemblies of PCU, SBC with mechanical measuring instruments.
- Known for quality excellence and a "do-it-right-the-first-time" design standard.
- Implemented several cost-effective solution of designing sheet metal components to meet the quality standards results into save hundreds of thousands of dollars in costly rework through careful design review that identified flaws in new subassembly and parts models prior to production.
- Well versed with packaging of electric power distribution equipment and control electronics in restricted spaces with tight weight constraints is expected.
- Assisted & co-ordinated with electrical engineers with mechanical fastening of electrical assemblies & components design requirements..

#### Junior Manager Design

Mukand Ltd - Mumbai, Maharashtra - June 2007 to October 2010

Worked with a team of experienced engineers involved in Design and development of Steel plant equipment such as Ladles, Transfer Cars, Scrap Handling systems.

Environment: AutoCAD 2008, SolidWorks 2008, MS Office, JDEdwards

**Roles & Responsibilities:**

- Layout and design of various steel plant equipment including detail, reference, fabrication, purchasing and assembly drawing using AutoCAD/Solidworks, Inventor, bill of material for project and new item request from sales and customer.
- Create presentation /animation file using Solidworks
- Prepared preliminary calculations, equipment sizing, research, stress analysis and load calculation for steel plant equipment (like ladles, transfer cars) etc.
- Preparation of Technical specification of equipment.
- Checking & verification of engineering drawings prepared by CAD operators and verification of Bill of Material.
- Resolving design related issues that might arise during the manufacturing stage.
- Responsibilities also include project planning, progress monitoring & reporting, budgeting & cost control, co-ordination with client, vendors & internal customers like engineering procurement.

**EDUCATION**

**Bachelor of Engineering in Mechanical**

India

**Diploma in Mechanical Engineering**

Mumbai University - Mumbai, Maharashtra

**SKILLS**

Key Skills: • AutoCAD version 14- 2008 • Solidworks 2008, 2010& 2011 &, PDM • Autodesk Inventor • Pro-E • Microsoft Office 2007 • ISO 9001-2008 • Geometric Dimensioning and Tolerance(As per ANSI-Y14.5M Standard)

**ADDITIONAL INFORMATION**

**Core Competencies**

- Mechanical Engineer with more than four years of experience providing technical design direction on hardware, mechanical products, machine parts and components for global ISO manufacturers.
- Able to develop components and products from concept to completion, strong planning skills with ability to conceptualize and analyse complex designs.
- Able to quickly grasp new technical information and communicate that information to others in understandable manner without any ambiguity. A conscientious team player with excellent problem solving and troubleshooting skills.
- Solid experience in CAD tools ERP systems.
- Expertise in design & development for surface modelling, Sheet metal works & fabrication.
- Familiar with ISO norms & Knowledge about Operational hazards & Industrial safety practises.
- Good Knowledge of presentation software such as MS Word, Excel spreadsheets and Power Point.
- Consistently demonstrate leadership skills, sound judgement, decision-making capability, initiative and resourcefulness in responding to job challenges.