**Ambika Bharati Dash** Picture

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**Profile**

A Mechanical engineer having **11** years of work experience in Semiconductor, 3C (Computer, communication and Consumer Electronics ) and Automobile domain with Design, Manufacturing ,Product development, Assembly, Quality, Process , Project Management andProject planing experience .

**Summary**

Working experience in Mechanical design and development,Manufacturing, process automation engineering, Assembly, Quality and project engineering with strong exposure across latest CAD tools & techniques. Exposure in Possess valuable insights in designing models and prototypes using various tools, modifying and upgrading existing designs & drawings while managing the complete design project including requirement analysis, finalising specifications, concept development, calculations, testing activities and installation support. Well versed in handling design engineering operations, involving design & development, product design and its critical characteristic, process developments, skilled in project planning, designing, scheduling, resource mobilisation, drawings, quantity estimation and final project delivery.Exposure on Pressure Sensitive Adhesive (PSA) assembly.

**Core Expertise**

Domain :

Semiconductor, 3C ( Computer, Communication and Consumer Electronics) , Automobile

Design Tools:

AutoCAD 2020(2D/3D), Master Cam, Autodesk( Inventor, 3ds Max, Revit), Solidworks, Solid Edge, Rhinoceros 3D, FEA , ProE, CAD (Delmia V5 /V6) /CAM/CAE, CREO 2.0, Unigraphics(UGNX9.5 9.5, 12),CATIA-V5R14, R28 (2D/3D),Part Programming, MATLAB, Ansys,Siemens Nx, ADEPT, Team Center, PDM, PLM, GD&T, DVP&R, FMEA, DFMEA, DFA

Other Tools:

Documentation tools: MS-OFFICE (Excel, PowerPoint, Outlook)

Defect Management tools: JIRA

ERP : Microsoft (Dynamics / NAV), SAP, EPICOR

Operating System: Windows 2000, XP & Windows 7, LINUX

**Specialities**

Product Design & Development ,Part Assembly, Quality, FMEA, PDM /PLM, APQP, Six Sigma Release Management, JMP, Minitab Statistical Software ,Leadership/Team Management, Quality Management,Control /Improvement, Process Engineering, Reverse Engineering, Training & Mentoring, Tool & Die making, Manufacture and production of Press tool, Sheet Metals,Mould, Jigs and Fixtures, Fixture Design,Laser Welding, Process Automation, Robotic Simulation, Automotive, Semiconductor,Machine Learning, Factory Lean,DOE Design, CCD ( Central Component Designs)

**Work Experience**

Organisation : HCL TECHNOLOGIES LTD. , BANGALORE

Designation : Lead Engineer

Duration : 29th June 2022 - Till date

Responsibilities :

Worked with Semiconductor and 3C Clients. Daily I am attending Client Meeting, Huddle Meeting and Status meeting . Reviewing the project works with Our Team. Leading 4 members in my team and taking work status from them . Attending all needful project related technical training .Good knowledge on Electromechanical and 3C domain, Expertise in Component design, Machine design, CCD, DOE, new product design, Sheet metal & Plastic Design.Assembly instruction drawings and detail drawings creation meeting the ASME standards and Gd&t. Managing large assemblies, family table and hardware selection, welding standards.Creating Engineering documents, CRFs as per standards. Worked with Thermal Solution design activity .Attended project planning meetings to coordinate mechanical system designs with structural and architecture teams, mitigate design conflicts and coordinate delivery timelines. Creation & customising of different valve configurations assembly & detailing. Supporting an offshore team for markups, models & drawing creation. Creating BOM for assembly. Ensuring timely delivery and quality of project deliverables. Involved in Machine selection, prototype machine testing.

Organisation : MUSASHI AUTO PARTS INDIA PVT. LTD , BANGALORE

Designation : Senior Engineer

Duration : 8th March 2010 - 29th August 2020

Responsibilities :

Design and modification of various fixtures and gauges. Implementation of modifications in production lines in machine shop. Work in Office setting reviewing specifications and necessary data to develop mechanical layouts. Visiting factories to measure physical dimensions for machinery and observed product lines. Make drawings from reverse engineering. Development of tooled up fixtures and establish supplies for mass production. Coordination with production personnel to implement design modifications, if any, in existing production process. Take the trial of new fixtures and to establish the production process for new projects. Design review and Design validation. Defining process fixture. Product Development Structural design , BIW Fixture Design , Nesting parts and programming. Development of application-based tools. Part Modelling & Detailing. Good knowledge on Bill of Materials (BOM), TPM & TQM . Assembly Gauges design and POKA YOKE provided in assembly line. Manpower handling in Assembly Section , Kaizen implemented in Assembly line. In Quality process Identify the defect in parts.Analysis and solve the Market claims and check sheet provided for future process. Leading and mentoring 2 team members in design team .

**Achievements**

Worked independently in the development of various shafts (cam shaft, counter shaft, main shaft, and crank shaft). Establishment of various fixtures and gauges for the new project. Modified various fixtures to improve productivity. Independently set the various fixtures for gear forks. Existing process loophole & bottleneck identification, modification, prove out & establishment. Reduced the rejection in the production line. Implemented various Kaizen on shop floor.

**Education**

Advanced Diploma in CNC & Programming from CTTC , Bhubaneswar ( 2009 - 2010 )

Diploma (Mechanical Engineering) from SCTEVT , Bhubaneswar, Odisha ( 2006 - 2009 )

10th from Board of Secondary Education , Odisha in 2006

**Personal Information**

Name : Ambika B. Dash

Date of Birth : 1st June 1991

Sex : Female

Language known : English, Hindi, Odia

**Declaration**

I hereby declare that all the above information and facts stated are true to the best of my conscience.

**Ambika Bharati Dash**