Amit Arun Puranik

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Current address:- Thite Nagar,
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OBJECTIVE:

To be an expert in the area of **R&D, Project Engineer & Development, Product Design, Tool Design & Mechanical design.**

Supports **New Product Development (NPD, DFMEA, Tolerance stack up and Current Product Sustaining programs as per company standard** with Design and Engineering activities as directed by the local Team lead /Manager.

Dedicated and self-motivated mechanical design engineer with overall **3 year's experience in oil field, sheet metal, DCD, molds and tool room. Highly adept in using UG NX & Teamcenter (Expression based modeling, parametric modeling, assembly, assembly arrangement, part families, Drafting and GD&T as per ASME Y 14.5)**

Actively co-ordination for **assembly BOM generation, material planning. Raw material planning, production order report generation.**

SOFTWARE EXPERIENCY AND SKILLS:

- NX 11.0/10.0/8.5
- Teamcenter
- CATIA V5
- SAP
- AutoCAD
- Ansys

EMPLOYEMENT HISTORY:

Current Company : DRESSER-RAND A SIEMENS BUSINESS, PUNE (Adecco India)

Tenure: Aug 2017 to present

Department: Gimpel Valves

Role: Design engineer.

Company : JAIN IRRIGATION SYSTEMS LTD, JALGAON

Tenure : Oct 2013 to Dec. 2015

Department : Sprinkler

Role: Executive Engineer

CURRENT ORGANISATION:

Name of the organisation	**DRESSER-RAND A SIEMENS BUSINESS**
Designation	Design Engineer
Scope of work & role played	• Good understanding of **ASTM B16.5, B16.10, BPVC section VIII** standards. • Strong foundation to create **parametric casting** and **machining models** using **expression based modeling**, and **detailing with application of welding, GD&T, considering manufacturing process & machining operations, as per Dresser-Rand best practices and check list.** • **Part family, assembly using interpart linking expression, assembly arrangement, modeling using PTS tool.** • Gather relevant design data. • Ensure with **feasibility check & Self Q.C**. Weekly **project review interaction with Team lead/manager.**
software used	Unigraphics NX 8.5/10.0/11.0 & Teamcenter
Notice period	1 months (negotiable)

Projects Handled:

Project name	**JOB ORDER EXECUTION**
Client	**DRESSER-RAND A SIEMENS BUSINESS (U.S.)**
Scope of work & role played	• Fully responsible for **Design and material selection** for steam turbine valves, **min wall thickness, face to face dimension / end to end dimension.** • Good understanding of **ASTM B16.5, B16.10, BPVC section VIII** standards. • Create **parametric casting and machining models with overlay analysis** as well as **manufacturing drawing** for **Steam valve.** • **Create master model (casting) using** the **logical expressions and relevant formulae.** • **Tolerance stack up** analysis for assembly of valve. • Create the **sub-assemblies, assembly, assembly arrangements** • Create **part families** for different parts. • Create the **BOM**.

Project name	**OOTTV STEAM VALVE DIGITALISATION**
Client	**DRESSER-RAND A SIEMENS BUSINESS (U.S.)**
Scope of work & role played	• **OOTTV VALVE Digitalisation:** As per **design point of view concern**, the objective of project is to **standardize valve parts** and **programmable controlled assembly** of steam valve to reduce **40% of cycle time & cost.** • Create **parametric casting and machining models** as well as **manufacturing drawing** for **Steam valve.** • Use the **logical expressions and relevant formulae** for casting body & similar part modelling. • Create the **sub-assemblies, assembly, assembly arrangements, suitable to digitalization Programme.** • Create **part families** for different parts. • Create the **BOM**.

Project name	**STEAM TURBINE 3D CATALOGUE**
Client	**DRESSER-RAND A SIEMENS BUSINESS (GERMANY)**
Scope of work & role played	• **3D catalogue project objective:** To create **aesthetical & well understandable 3D part list/library of steam turbine.** • Create modeling and detailing **steam turbine** parts like **rotor, guide blade carrier, valves, bearing, casing**, using logical expression & formulae **as per DRESSER-RAND standard practices.** • Create **aesthetical detail exploded views, well understandable to customer/client**.

Project name	**Modeling & detailing of centrifugal compressor**
Client	**DRESSER-RAND A SIEMENS BUSINESS (U.S.)**
Scope of work & role played	• Objective of project: To create **parametric models** & **manufacturing drawing** for centrifugal compressor (Datum, Revamp & aftermarket) as per DRESSER-RAND standard practices. • Create a **manufacturing drawing** of parts of centrifugal compressor like **impeller, rotor, bundle, casing, labyrinth seals, diaphragm, LSD** etc. considering **manufacturing process** and **machining operation, welding process, GD&T.** • Ensure with **check list and self Q.C.**

Project name	**DESIGN AND DEVELOPMENT OF PRESS TOOL**
Client	**JAIN IRRIGATION SYSTEMS**
Scope of work & role played	• Objective of project: Design and develop **press tool for seals** of three different product. • Design **compound press tool** for NBR (Nitrile Butadiene Rubber) Washers (Seals). • With suitable **strip layout, design calculation** like, **press tonnage, shear force, clearance between punch and die.**
software used	Unigraphics NX 10

Project name	**New product development of 234PC sprinkler**
Client	**JAIN IRRIGATION SYSTEM LTD**
Scope of work & role played	• **Objective of project**: To develop new **sprinkler to cover partially or fully wide irrigation range in field.** • Collaboration to design and develop **sprinkler casting body**, **hammer, stopper, tripping mechanism**. • Collaboration to **standardize manufacturing process** of sprinkler body. • Relevant **material section** for rapidly wearing and tearing parts likes washers, seals. • **Performance test** of product.

CO-ORDINATION FOR PROJECT:

- Successful **vendor visit in Coimbatore develop a new sprinkler 234PC body tool** & to mitigate manufacturing concerns of sprinkler 233 body & qualify leakage test.
- Collaboration in **R&D of 'Sprinkler 233' to get maximum working life**.
- **Production BOM** generation for **assembly of sprinkler**.
- Develop & control **assembly drawings, work flow charts, assembly instruction** for all assembly lines under **ISO 9001-2008**.
- **ECO's (Engineering Change order).**

KEY SKILLS:

- **ASME Y14.5 GD&T, Design of press tool, Die casting dies, molds, jigs & fixture, gauges, Logical Expression based modeling and detailing (UG NX**), Good understanding of **manufacturing process, machining operations, Welding. Team handling handling, trouble shooting**, packaging and dispatch, housekeeping & safety, documentation & file management.

CNC MACHINES:

- CNC Lathe , CNC milling, EDM, WEDM (Basic level)

EDUCATIONAL QUALIFICATION:

- **Post Graduate Diploma in Tool Design & CAD CAM** **75.44%**
  - Indo German Tool Room Aurangabad 2017
- **Bachelor in Engineering (Mechanical)** **60.06%**
  - GF's Godavari College of Engineering Jalgaon 2013
- **H.S.C.** **62.33%**
  - Nahata College Bhusawal 2008
- **S.S.C** **64.26%**
  - S.S.G.B. Hindi Vidyalaya, Bhusawal 2006

PROJECT PGDTD&CC:

Design Of "Progressive and bending tool for pawl in hand brake lever"

Using NX_10.0 & AutoCAD_2016 design & develop a model & part detailing of progressive & bending tool which includes design parameter's like strip layout, material utilization, press tonnage calculation, share force and bending force calculation, BOM generation, material selection for tool,& cost estimation.

STRENGTH:

- Quick learner & determined to learn with practical approach
- Enthusiastic & can produce result under deadline constraints
- Proactive & Good team leader.

PERSONAL DETAILS:

Date of birth:	09-05-1991
Gender:	Male
Marital status:	Single
Language known:	Marathi, Hindi, English
Hobbies:	Cooking, travelling, cricket, chess, elocution