



PRASHANT B CHAVADANNAVAR

LEAD ENGINEER

CONTACT

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EDUCATION

2008-2012

Vinayaka Missions University. Salem

Bachelor of Engineering |

Mechanical Engineering

2003

Dept of Technical Education

Diploma | Mechanical Engineering

SOFT SKILLS

- Good communication - written and oral.
- Excellent conceptual and analytical.
- Strong Dimensional, GD&T and technical understanding.
- Provide technical guidance to junior engineers.
- Demonstrable ability to deliver work under pressure

PERSONAL PROFILE

I am a highly motivated Mechanical Engineering graduate with over 17+ years of experience. I have strong GD&T and Detailing skills.

Really good at communication and handling clients.

WORK EXPERIENCE

Oct 2019 – Apr 2022

TATA Consultancy Services (TCS)

Lead Engineer

- Drive technical and quality standards of different programs
- Responsible for the team productivity and assignment of work to all members under my commodity
- Monitoring projects from start to closure

Aug 2010 - Sept 2019

General Motors Technical Centre India Pvt Ltd

Senior Engineer

- Drive discussions and lead the team to get additional input and deliver the required output
- Coordinate the global eGD&T development with all other regions
- Conduct quality audits internally within the team
- Evaluation of EWO (Change management) and take responsibility till the drawings are released in the team center and GPDS.
- Perform Benchmarking activity for various competitive vehicles.

TECHNICAL SKILLS

- CAD Tools like - UG NX, Solid Works, Catia V5
- Expert Dimensional GD&T for the Automotive domain.
- Engineering Change Management (ECR, ECN, EWO or ECO)
- EGDT(Embedded GD&T) is included in NX PMI (Product Manufacturing Information)
- Project Management
- Teamcenter and Vismockup

CERTIFICATES

- ASME Y14.5.2 in OCT 2012 for GDTP-Geometric Dimensioning and Tolerancing Professional
- Six Sigma Green Belt
Certificate: DFSS (Design for six sigma) in JULY 2013
- Six Sigma Black Belt
Certificate: DFSS (Design for six sigma) in JULY 2015

MAJOR PROJECTS

TATA Consultancy Services (TCS)

- Responsible for handling and executing the entire program of GMNA, for which received appreciation from the department head. The project was called as BOM-10, this was for 18 months program duration.
- Single point of contact for the Interior commodity. Which included the IP, Floor consoles
- Distribution of ECO (Change orders) from my inbox and also take care of quality checks of GD&T drawings prepared by Junior or New Engineers.

General Motors Technical Centre India Pvt Ltd

- **IRT member- Issue Resolution Team** - I participated and was a part of this activity for 2 of the major vehicles Chevrolet Beat. - It was my first visit and IRT member. Visited Manufacturing plant in Talegaon near Pune. This gave me lot of learning and exposure to plant and its activities. Representing Design team from Bangalore was my responsibility. The GA (General assembly) had some issues which were reported and I too helped some on spot issues to get resolved. For 3 months the duration of IRT was there.

Feb 2007 - Mar 2009

GE Transportation Systems (JFWTC)

Design Engineer

- Drawing creation of Locomotive components, reviewing with Engineering and Manufacturing expert team
- QA team member responsible for compliance of design, and drawings per GET standards
- Concept proposal for new components of cooling systems

Apr 2005 - Jan 2007

Geometric Software Solutions

CAD Engineer

- Worked on different projects in CAD modeling and drafting
- On-time delivery of projects in an efficient manner.

Jun 2003 - Mar 2005

VDM Engineering

CAD Engineer

- As a CAD Engineer, this involved working on AutoCAD to create drawings. I was a trainee during this period.

- **IRT member- Issue Resolution Team** - I participated and was a part of this activity for 2 of the major vehicles

Chevrolet Cruze -This was my second visit as IRT to Halol Manufacturing plant in Gujarat. My previous experience helped in handling activities. The issues in Body shop, General assembly were reported and some I solved on spot.

- **EGDT**- EGDT(Embedded GD&T) is included in **NX** PMI (Product Manufacturing Information)

This was a challenging and much needed transition from 2D to EGDT. Here the GD&T is given or shown directly on the part model. This is associated GD&T. The surface which has the profile tolerance gets highlighted when the callout is picked. This new transition helped suppliers to easily visualize what that GD&T callout represented. Maximum suppliers shifted to EGDT format drawing creation from the year 2016 to 2018. It saved lot of time and quality check became more comfortable

- **Benchmarking of Competitor Vehicles** - Lead this Benchmarking activity. This activity was for all the competitor vehicles. It was FVMS (Finished Vehicle Measurement Specification)

The critical measurement points check was taken. Mainly for Class A and B surfaces. Using various tools like slip gauges, Feeler gauges, and verniers. To note the Gap and Flush of the interfaced parts on the competitor vehicles. Later the report and presentation was prepared by me and presented to the management team in monthly meeting

- **Patent Innovation Ideas submission** - Was a attempt and discussed in Patent review

1) Fuel intimation system- This was a small toy that emitted the sound of fuel type(Petrol or Diesel)

It was reviewed internally and was appreciated.

2) Hood latch- The proposed Spring is made of memory alloy material. This was internally considered ok but the limitation of memory alloy metal came as a drawback.

GE Transportation Systems (JFWTC)

NPI Compressor Day Tank for UK. Using UG NX - To create the entire new design and 3D model for the new

concept of Day Tank for the compressor. All the pipes involved in this assembly created using 3D piping tool.

Used the stainless steel for the first time to make the daytank. The fittings for the hoses and the pipes involved were also of the stainless steel .Mechanical components interface were checked using the DENV in UG which helped to solve a lot of issues while installing it on the actual LOCO. Identifying key critical items which needs input from various sub-system Estimated schedule for change orders.

Schematic development for all the Customers (Compressed Air System) and Fluid Schematic for UK:

Using UG NX To create Air Piping Schematic for all the customers.

Requirements from SFS–Often specifies type of compressor, bell, horn, dryer, hoses, reservoir size, drain valves, etc.

Look at previous orders from the same customer. Make Air Piping Diagram based on Sub System Design Specification (SSDS).Select components based on Inputs. Review & Release Schematic

Support the shop during assembly.

Geometric Software Solutions

CLIENT-Toshiba Tec Corporation - UGNX

The client requirement was drafting of the following part files which included sheet metal components, gears, pulleys, molded parts, etc. The input for all was a respective part file. A part document excel file which included all the required inputs like standards, text annotations etc, was provided. We had to complete the drafting and upload the files daily as per clients requirement.

CLIENT-Misumi and Rexnord (USA) - SOLIDWORKS

The project includes parametric solid modeling & drafting. The different parts and creating hundreds of configurations for the using DESIGN TABLE The input is given in AutoCAD drawings, the different part details are keenly studied and the parts were uploaded to the client as per their requirement.

VDM Engineering

Using AUTOCAD- Detailing of Clamps, Locating Clamps, Taper Clamping units, Eccentrics Clamps, Adjustable Clamping Levers, Machine Handles, U-Handles

CAREER HIGHLIGHTS

- Completed DFSS “Design for six sigma” certification. Involved in OpEx Projects.
- Individual excellence, Pat on back awards, Bravo Award for on-time completion of various projects.
- ASME Y14.5.2 in OCT 2012 (American Society of Mechanical Engineers) Technologist Level
- Six Sigma Green Belt Certificate: DFSS (Design for six sigma) in JULY 2013
- Six Sigma Black Belt Certificate: DFSS (Design for six sigma) in JULY 2015
- Operational Excellence (OPEX) Project on Dimensional Engineering work Execution-OCT-2018
- Lead the GM-sponsored Stall at PMI (Project Management Institute) Bangalore Chapter.