

BHUSHAN PATIL

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DOB: 21 November 1990

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Career Objective

To work with commitment in a well-organized company, where my skills will be useful for the development of company and to boost my career to the summit.

Strengths

- ✓ Own it spirit
- ✓ Lead with speed
- ✓ Team player
- ✓ Proactive and self motivated
- ✓ Quick learner
- ✓ Excellent communication skill

Profile Summary

- **Graduate Mechanical Engineer** having **6.2 years** of professional experience in Mechanical Design Engineering, New Product Development and Engineering solutions providing industries.
- Plastic, sheet metal, casting and machining components design also involved in prototyping and testing of prototypes, working closely with manufacturing team for design review, any changes required in tool or in product for better design.
- Travelled onsite to **USA** and **China** for Oscar prototype, build and testing support.
- Successfully completed **Lean Six Sigma Green Belt Course**
- **Two patents filed for Oscar food recycler.**

Skills

- Tools : Tolerance stack up, GD&T, DFMEA, A3, PUGH Matrix, Google Hangout, AT&T, Simulation, Patents, DFX
- Software : CATIA V5 R19, PRO-E, CREO 2.0, AUTOCAD, WINDCHILL
- Domain : Plastic, Sheet Metal, Casting, Machining

Total Experience: 6.1 Years

Whirlpool Corporation USA(Global Technology & Engineering Centre), Pune

Designation: Senior Design Engineer

04 Jan, 2016 – Till Date

PROJECT : OSCAR-Performance subsystem(Mixing bin)

Oscar is brand new product from whirlpool and waste food combustor consists of many subsystems like structure and aesthetic, **top sub-system**, foot pedal, **mixing bin**, Output bin, wiring harness and controls. We are leading & developing complete product from Pune technology centre. I am in the role of senior design engineer and supporting design and delivery of mixing bin and top sub-system for Oscar. Mixing bin subsystem consist of induction motor, drive chain and sprocket mechanism to drive the spiral blade welded to the shaft to decompose the waste food in bin.

JOB RESPONSIBILITIES:

- Delivered food composter to American market by following whirlpool's **C2C** product development process.
- Delivered manufacturing drawings with **GD&T** for casting and machined parts.
- Delivered **Tolerance stack up analysis** for critical gaps.
- Travelled **USA and China** for Oscar prototype, build and testing.
- Strongly supported china supplier (Kemflo) for Oscar V3 builds assy sequence and fixture design.

- Daily Interaction with **US and china** counterpart for project discussion related to all aspects of design and development using google hangout and AT&T tool.
- Created plastic and sheet metal learning material and presented to other team members to help them better product design.
- Shifted in new role to speed up the mixing bin subsystem delivery to meet V3 build Schedule.
- Design and development of casting and machining components.
- Identification of subsystem simulations and review with SBD engineer for simulation strategy and boundary conditions.
- Supporting team by doing the role of Internal quality checker to check all the drawings and models as per ASME 1994 & defined whirlpool standards prior to release. Responsibility to ensure the integrity of the CAD models and drawings.

Whirlpool Corporation USA(Global Technology & Engineering Centre), Pune onsite through
Hi-Tech Gears Ltd, Pune

10 March, 2014 – 28 Dec, 2015

DESIGNATION: Design Engineer

PROJECT: OSCAR-Structure and aesthetic (Top Subsystem)

Top subsystem consists of sliding lid on top attached to slide rail and driven From foot pedal mechanism. The challenge with this subsystem involve the aesthetic lid which have IML on lid top and driven by pressing foot pedal mechanism.

JOB RESPONSIBILITIES:

- New product development from concept to final released product.
- Product Design & Development of Injection molding parts & sheet metal components.
- Successfully completed oscar V1, V1.5 & V2 Prototype build and testing.
- Product design & development of components to meet fit and functional requirement by considering DFM & DFA design approach.
- Complete system/component design, modelling, and technical documentation (FMEA, A3) to meet customer requirements.
- Creating and Releasing CN (Change Notice) on Wind chill.
- Coordinate and support prototype manufacturing of products.
- Participate in scoping of New Product development. Create ideas for new products, new product features and suggest potential modifications to existing products.
- Effective utilization of Pug-matrix tool to select best concept out of multiple concepts.
- Proficient knowledge of SLS, SLA & FDM 3D printing processes.
- Creation of manufacturing drawing with GD&T for plastic and sheet metal components.
- Used CREO mechanism for kinematic analysis of linkages.
- Used CREO mechanica for structural analysis of plastic parts and snap design.
- Completed 10+ Tolerance stack up analysis for top Subsystem critical interfaces.

Minda Industries Ltd, Pune Onsite through **Universal Solut**(20 Oct, 2013 – 28 Feb2014)

Designation: Design Engineer

Project: JCB Media Panel



Start to end product delivery for UK client JC BAMFORD(JCB). Product named as JCB Media Panel for cab and heavy vehicles in UK. Product consists of total 29 numbers of electro-mechanical parts. The product design structure consists of design input, product design, product test and analysis, rapid prototyping, design and development and reverse engineering.

JOB RESPONSIBILITIES:

- Updated DFMEA documents for plastic and sheet metal components.
- Completed tolerance stack up analysis for critical interfaces on product.
- DFM review of plastic component design with tool designer & suppliers.
- Prepared bill of material.
- Completed design Review with senior designers before releasing components for production.
- Attended design review and knowledge sharing meetings

- 3D modelling and drawing creation of plastic and sheet metal components with GD&T using cad tool CREO.
- KAIZEN, POKA-YOKE.

M/S Technochem Industries, Pune

(01 Jul, 2012 –15 Jun, 2013)

Designation: Trainee Cad Engineer

Project : Flexible Pipe Push Machine



Machine consists of different subsystems like pipe feed rollers, height adjustment mechanism, spur gear mechanism, motor and main frame body. Plastic pipes of different sizes extruded from extrusion machine is continuously supplied to cutter with the help of flexible pipe push machine for the purpose of cutting pipes into predefined equal length. This machine helps to make the cutting function automatic and save labour cost.

Job Responsibilities:

- 3D modelling and manufacturing drawing creation of sheet metal, machined parts and casting components using CAD tool CATIA and Autocad.
- BOM creation and Project Data Management.
- Field work to understand design requirements.

Academics

EXAM	BOARD	YEAR	PERCENTAGE (%)
SSC	BHOPAL BOARD	2006	73.74
D.M.E	MSBTE,MUMBAI	2009	73.78
B.E (MECH)	NMU,JALGAON	2012	68.67

Co-Curricular Activities

COURSE: CADCAMGURU Certified Cad Engineer with 82%

INSTITUTE: CADCAMGURU, Pune

DURATION: 6 Months full time

CAD SOFTWARES:

CATIA V5 R19: Part Modelling, Surfacing, Sheet Metal, Assembly And Drafting

PRO-E W5: Part Modelling, Surfacing, Sheet Metal, Top down assembly And Drafting

SOLID EDGE: Part Modelling, Assembly, Drafting and GD&T



Declaration

I hereby declare that the above information is true to best of my knowledge.

Date –

Place- Chinchwad, Pune

Bhushan V. Patil