

# Pratik Dubey

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## EDUCATION:

Master of Science	University of Bridgeport, Bridgeport CT - USA	Mechanical Engineering	January 2016 - May 2017	GPA 3.5/4.0
Bachelor of Engineering	Sushila Devi Bansal College of Engineering, Indore - India	Mechanical Engineering	August 2009 - May 2013	66.7%

## SKILLS & CORE-COMPETENCY:

**CAD Tools:** PTC Creo, SolidWorks

**Component Analysis:** ANSYS workbench, FEA

**CAD Database:** PTC Windchill, PLM, PDMlink, SAP, SAP-PLM

**Test Management Tools – TFS**

**Project Management Tools-** JIRA, VSTS, BPMN

**Database – SQL**

**Other Tools –** Google Analytics Microsoft office (Excel, word, Power-point)

**Methodology:** Agile

## CERTIFICATIONS:

**Scrum Master Certification (CSM)**

**January 2021**

**Lean Six Sigma Green Belt (LinkedIn Learning)**

**May 2020**

## WORK EXPERIENCE:

**Livpure Pvt. Ltd. Gurugram, Haryana, India**

**April 2019 - Current**

**Deputy Manager, Product development- R&D**

- Involved in the product development cycle of water purifier, inverters, and batteries: concept building, CAD modeling & drafting, prototype building and testing. Managing and scheduling track records of all the projects, project execution.
- New product development and execution, design, and verification of the components, performed design RFQ tasks, cost-out reviews, project documentation control and prepare the schedule for the product delivery.
- Involved in the designing and development of the sheet metal components, Casting Process, Metal Die-casting of water purifier stand, tolerance stake up analysis of the casting components, verification of parts.
- Product data management using SAP-ERP, managing & creating complex assembly BOM. Documentation for Patent filing (IP) of an invention and drawing registration. Involved in project budget, CAPEX and OPEX Planning.
- Involved in a root cause analysis process and resolved it. Provide technical support for the quality and manufacturing, manage the design control and generate ECN/ECRs.
- Involved in the supplier quality control process, assist supplier for the component manufacturing, identify the CTQ

**GE Industrial Solution (ABB INC.) Plainville, CT-USA**

**January 2018 - January 2019**

**Mechanical Project Engineer**

- Involved in the NPI Projects for LV-switchgear and circuit breaker, design and development, tolerance stack-up analysis (GD&T) of the components & assemblies, driving CTQs, C-change projects. Fixture design for different R&D practices.
- Involved in the DFM process with the manufacturing team for circuit breaker component, validate the electronic-first piece (e-FPIR) and approved new tool, check fit-form function, Involved in the cost out projects with IMCO teams.
- Lead the RoHS & REACH compliance project for the MCCB products line and made the test qualification plan for the new electro-plated metal parts. The root cause analysis (RCA) of the failed samples and test again to qualify parts.

- Production part approval process (PPAP) with the suppliers and for the customers to qualify the new RoHS design for the circuit breaker. Cost out projects with the system team to qualify the new supplier. Proficient in UL/IEC standard
- Circuit breaker coordination project to test the main circuit breaker with the branch breaker also performed the selectivity test and studied the waveform, identified the peak current and energy let through after High current test.
- Provided technical and practical support for quality assurance functions including root cause and defect analysis (FMEA) for circuit breakers. Root cause analysis of the UL test failed circuit breaker and implement the CAPA method.

**MED-Instill Development LLC, New Milford, CT-USA**

**April 2017 - November 2017**

**Mechanical Design Engineer**

- Worked on the development of medical device projects. Involved in the needle assembly (NPI) development for the automatic feeling machine, needle function was to penetrate the septum of a pouch and dispense the liquid in the closed container without engrossing the bacteria.
- Needle assembly design involved the modeling and drawing change process of the components, tolerance stack-up and dynamic (FEA) analysis, Modeling and drafting of the components.
- Life cycle development of multi-used sterile connectors for the liquid transfer, CFD analysis using ANSYS to study the flow through the connectors. Developed tooling and equipment to minimize cost. Involved in a product development cycle, design and development 3D printing & prototyping (Additive manufacturing) of a new component, Static structural analysis.
- Design for manufacturing (DFMA) & design for application (DFA) of new products, Injection Molded Parts, design for experiment (DOE). Drawing released & review design maintained and completed Engineering change requests (ECRs).
- Developed new and modified manufacturing methods, tooling and equipment to minimize cost and maximize productivity for all product lines. Good Manufacturing Process (GMP), Good Documentation Process (GDP).
- Applied six sigma methodology to design the component (DFSS). Perform material test: Instron test, hardness test.

**Spentex Industries Ltd, Indore (M.P.) India**

**July 2015 - December 2015**

**Mechanical engineer (Utility)**

- Maintenance of Rotary Screw and reciprocating compressors fixed the leakage issues of Air pressure lines by working in the trench using the TIG welding process to weld the high-pressure air lines, water lines. Design fixtures.
- Scheduled maintenance of diesel generator, water treatment plant, and material handling equipment forklifts Hydraulic Machines, Humidification plant and maintain the HVAC system in the building. Inventory management

**Param-Tech CAD Service Pvt Ltd Indore (INDIA)/Eicher Motors India PVT. LTD**

**August 2013 – June 2015**

**Assistant Design Engineer**

- Designed the front and rear suspension system of the light capacity trucks and done analysis to study the behavior of leaf spring on load condition and find the maximum stress generating area and fix it, also design other automotive components and managed the complex assembly BOM. Involved drawing change process with the manufacturer (DFM), stress analysis and FEA on the automotive components using ANSYS workbench.

**INTERNSHIPS & TRAINING:**

**Indo German Tool Room, Indore (M.P.) India**

**June 2012 - July 2012**

- Trained on the CAD tools Creo, CATIA, manufacturing and machining lathe, milling, shaper, grinding machine, EDM.
- Heat treatment of steel: Put the specimen in the electric furnace and heat up to recrystallization temperature of the steel increase the ductility and reduced the hardness check the hardness of the material through Brinell tester. Performed tasks in the welding shop, MIG, TIG. Material testing, Metal Casting processes.