Pushpender Rathore

Associate System Engineer

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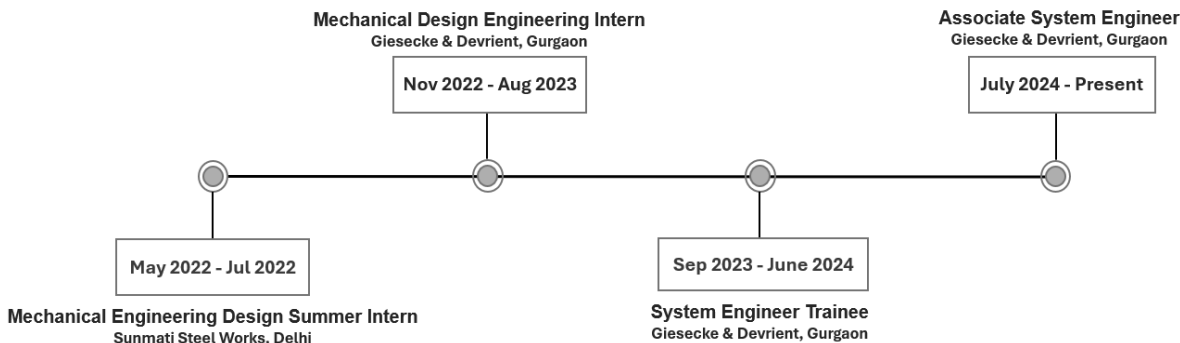https://www.linkedin.com/in/pushpender-rathore-164645191

New Delhi -110059

A passionate and driven engineering professional with a commitment to continuous learning and delivering innovative technical solutions. Skilled in applying analytical and practical approaches, fostering cross-functional team collaboration, and building strong foundations to enhance project impact and successful delivery of the product.

EDUCATION

Dronacharya College of Engineering (2019–2023)
BTech in Mechanical Engineering
GPA: 9.0/10

WORK EXPERIENCE

Mechanical Design Engineering Intern
Giesecke & Devrient, Gurgaon
Nov 2022 - Aug 2023

Associate System Engineer
Giesecke & Devrient, Gurgaon
July 2024 - Present

May 2022 - Jul 2022
Mechanical Engineering Design Summer Intern
Sunmati Steel Works, Delhi

Sep 2023 - June 2024
System Engineer Trainee
Giesecke & Devrient, Gurgaon

**Giesecke & Devrient, Gurgaon
(Currency Technology Commercial Segment)**
Associate System Engineer , July 2024–Present

- Authored technical system requirement specifications(SRS) to achieve product goals while reducing complexity.
- Conducted Failure Mode and Effects Analysis (FMEA) to identify and classify product error categories.
- Leveraged PLM tools to access CAD models, enhancing development team efficiency and saving time.
- Created and implemented UML diagrams to streamline requirements delivery for software and development teams.
- Involved in BUG handling process to meet the delivery target of the software.

- Defined comprehensive product testing and qualification processes through structured manufacturing test specifications(MTS), benefiting all organizational phases from development to packaging.
- Experienced in software and hardware defect analysis, root cause analysis (RCA), and providing optimal solutions to the team.
- Conducted SOMs preparation and analysis for software systems to enable faster services.
- Adopted cutting-edge technologies to improve product design and functionality.
- Decomposed high-level requirements into detailed tasks using conflict management and other techniques.
- Fully administered software chips, including flashing, analysis, and managing changeability.
- Managed Agile teams and workflows via Azure DevOps to create efficient work environments and maintain PLM functionality.
- Facilitated Engineering Change Request Board meetings for Mechatronics and Software, ensuring customer satisfaction.
- Oversaw end-to-end Product Lifecycle Management (PLM) and requirements management for R&D initiatives.
- Guided teams in following Agile methodologies to optimize processes.
- Led manufacturing integration efforts and delivered field solutions via RCA with the R&D team.
- Supported organizational goals by efficiently handling change management and software lifecycle management.

Giesecke & Devrient, Gurgaon
(Currency Technology Commercial Segment)
System Engineer Trainee, September 2023–June2024

- Working experience in taking the solution from market i.e. Market Requirement Specifications(MRS) and delivering the best possible technical solution through by System Requirement Specifications (SRS).
- Managed the requirements using Microsoft Azure DevOps tool.
- Managed the manufacturing site and maintains the Manufacturing Test Specifications(MTS) document timely after implementing new feature in R&D.
- Responsible for integration of mechatronics and software features with holistic approach.
- Manages and improved Concept Document.
- Responsible for making system Failure Mode Effects Analysis(FMEA) document for the user safety under DIN EN ISO 12100:2011, ISO/TR 14121-2, DIN EN ISO 13849-1,ISO/TR 141-2,DIN EN ISO 13849-1,DIN EN ISO 1200.
- Lead the project for product preventive maintenance (PM) to analyse the system functionality after certain period of time.
- Maintains the testing reports using Minitab Statistical Software.
- Managed the compliances issues like HDMI,REACH,ROHS,UL-94 V series.
- Responsible for solving the software related issues like configuration management, installations, system integration, logs issues etc.
- Manages Software & Hardware requirements to achieve the best desired goal and delivering to the customer onsite.
- Participated in making of system architecture with different department through by direct interaction.
- Continue learn the new skills which makes the task more impactful.

Giesecke & Devrient, Gurgaon
(Currency Technology Commercial Segment)
Mechanical Design Engineering Intern, Nov 2022–Aug 2023

- Design the currency technology machines i.e. Cash sorting machine parts in Creo Elements Direct Modelling.
- Managed the designed parts in CREO Windchill Product Lifecycle Management tool.
- Worked on the Design for Manufacturing (DFM) capabilities.
- Lead the project MTBF(Mean Time Before Failure) for the moving parts of the machine.
- Updated design according to ECR & ECN.
- Gained hands on experience in measuring instruments like Video Measuring Machine(VMM),Height measuring machine, Torque measurement measuring devices etc.
- Maintains the records using SAP MM module.
- Hands on experienced on Implicit Static Finite Element Analysis(FEA) on sheet metal parts in CREO Parametric.
- Participated in the machine architectural iterations of the machine and analysed the best concept in terms of costs, manufacturing processes, costs and quality with the team.
- Hands on training on ISO GPS internally and successfully applied to reduce the cost and make the parts much more better with positive approach.

Sunmati Steel Works, Delhi
(Welding Machines Manufacturing Industry)
Mechanical Engineering Design Summer Intern, May 2022-Jul 2022

- Accomplished design in Creo Parametric sheet metal designing -parts, assemblies for sheetmetal module etc.
- Worked on AutoCAD 2D& 3D in layout and part designing.
- Gained experience in sheetmetal designing,7 tank process for powder coatings, transformer making and chassis manufacturing.
- Learnt about the different types of welding machines and its application.
- Reduces the sheetmetal scrap and saves 40% of cost (VAVE Analysis).

KEY SKILLS

- **Technical Skills:-**

  (i) CAD Software - (PTC CREO Elements Direct Modelling, AutoCAD, PTC CREO Parametric).
  (ii) PLM Tools   - PTC Windchill & SAP.
  (ii) Statistics Software – Minitab, Excel.

  (iii) Programming Language – Python.
  (iv) Requirement Management Tools – Microsoft Azure DevOps Tool, UML Diagrams tools.
  (v) Basic knowledge of CAN Protocol, Electronics systems & software architecture.

- **Soft Skills:-** Presentation skills, Communications skills, Team management, Defect analysis , documentations.