Piyush Tandon

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Education:

Master of Science in Mechanical Engineering (Manufacturing and Operations) GPA 3.72
University of Washington, Seattle, WA

Sep 2022 - Aug 2024

Bachelor of Engineering in Mechanical Engineering. GPA 8.13/10
Thapar Institute of Engineering & Technology, Thapar University, India.

Jul 2017 – Jul 2021

Skills:

- Design and Prototyping: SolidWorks, CREO, Siemens NX, Teamcenter, CFD, Rapid Prototyping, Machining composites, 3D Printing, GD&T, ASME Y14.5 standards and ISO9001.
- Manufacturing and Quality Control tools: Process capability management, defect analysis, PLM, Six Sigma methodologies, 5S, Lean Manufacturing, 8D, APQP, PPAP, PFMEA.
- **Supply Chain tools:** ERP, QMS, MRP, DFM, Kaizen, Minitab, JIRA and Time study.
- Project Management: Stakeholder Management, Risk Mitigation, Resource Allocation, Agile/SCRUM, Timeline Tracking.
- Data visualization and programming: SQL (MongoDB), Python, MATLAB, Tableau, and Power BI.
- **Soft skills:** Experienced in working with cross-functional teams, ensuring alignment, and facilitating efficient project execution. Strong communicator capable of articulating technical and non-technical concepts to diverse audiences with strong presentation skills.
- International Experience: Summer School Abroad at University of Oxford, Leadership Exchange program in Istanbul, Turkey.

Work Experience:

Product Engineering Intern

Jan 2024 - Aug 2024

Bendix Commercial Vehicle Systems - Kalamazoo, MI

- Engineered process improvements and optimized designs for heavy duty vehicle brake components using CAD and DFMEA.
- Utilized predictive modeling techniques to inform material selection and design approaches, improving product reliability.
- Engaged cross-functional teams in CI initiatives, fostering a mindset of continuous improvement.
- Participated in Design Review Council, Design Verification Plan and documenting key design changes.

Mechanical Engineering Intern

Jul 2023 - Dec 2023

UW Facilities-Engineering Services – Seattle, WA

- Collaborated on projects to enhance HVAC system reliability across campus facilities, performing heat load calculations, equipment selection, and layout adjustments.
- Increased system uptime by implementing strategic design modifications to reduce equipment strain.
- Identified cost saving methods to save 3.8 million dollars/year and attain 45% reduction in carbon footprint.

Senior Analyst (Product and Data)

Jul 2021 - Sep 2022

Capgemini Technology Services – Pune, India

- Managed diverse project teams through JIRA, overseeing task assignments, tracking progress, and facilitating efficient communication. Improved task visibility and helped maintain project timelines, resulting in a 10% increase in project delivery efficiency.
- Leveraged advanced data analytics to drive product development and enhancement strategies, leading to a 15% increase in customer engagement and 0 customer escalations. Supported project engineering projects in an agile work environment.

Manufacturing Engineer (International Internship program)

Feb 2020 - Aug 2020

Mercedes-Benz US International – Tuscaloosa, AL

- Optimized assembly line layouts for GLE and GLS models manufacturing, reducing takt time and increasing production efficiency by 2%
- Analyzed supply chain data using SAP and Excel to track that helped increase supplier on-time delivery rates by 8%.
- Assisted in testing and validating product features, providing critical feedback to the design team based on testing outcomes.
- Collaborated with engineering, logistics, and production teams to coordinate material sourcing and process changes for new launches.
- Participated in internal audits and participated in CAPA meetings, driving improvements in assembly process and supply chain.

Projects:

Tiny ML Smart watch project link

Jun 2023 – Present

 Designed and assisted in development of a voice-activated panic detection system using ML for healthcare applications, managing a team of developers.

NASA JPL (Grad Capstone) project link

Jan 2023 – Jun 2023

Led the team as project manager and assisted a team of CS professionals in developing ML Model for Multi Static Lunar GPR.

Control model for automated traffic navigation project link

Jan 2023 – Mar 2023

Designed a control system for autonomous vehicle navigation using Control Lyapunov Functions and Control Barrier Functions

Grainer (Undergrad Capstone) project link

Sep 2020 – May 2021

Designed and manufactured an automated grain dispensing device with a quality control mechanism for grains.

Certifications:

• Certified Associate in Project Management (CAPM) – PMI