PARTH KOLTHARKAR

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EDUCATION

North Carolina State University — **Raleigh, USA**
Masters of Engineering Management — *Aug 2024 – May 2026*
Courses: Operations Research, Intro to Operation Research, Design and Control of Production and Service Systems

KJ Somaiya College of Engineering — **Mumbai, India**
Bachelor of Technology in Mechanical Engineering — *Aug 2019 – May 2023*
CGPA: 3.8/4

EXPERIENCE

Continuous Improvement Engineer — **Thane, India**
Vertiv Energy Pvt Ltd. — *Jul 2023 – Apr 2024*

- Designed Fan Wall Units and Chillers using Creo Parametric and Solid Edge, achieving a 20% improvement in cooling efficiency.
- Collaborated with manufacturing and quality teams to develop and implement design changes that streamlined production processes and improved overall manufacturability.
- Improved overall cost efficiency and production reliability to 18% by sourcing cost-effective and reliable materials from suppliers, utilizing a systematic supplier evaluation and selection process to ensure on-time delivery.
- Enhanced system reliability by 25% and cut production costs by 10% by automating data processing with Power BI, streamlining design process improvements.
- Streamlined drafting processes by developing standardized templates and procedures, reducing drafting time by approximately 1 hour.

Continuous Improvement Intern — **Mumbai, India**
Team Onyx India — *Sep 2021 – Jun 2022*

- Optimized the electronic configuration of the RC plane, leading to a 10% improvement in performance by selecting and analyzing electronic components for the SAE Aero Design competition, incorporating component evaluation methods.
- Improved aircraft efficiency by 15% by designing and analyzing different electronic configurations and applying simulation tools to optimize the existing plane model and achieve desired results.
- Reduced aircraft weight by 8% by suggesting a twin-tail configuration, leveraging structural analysis to improvise the existing tail design and enhance performance.
- Spearheaded the propulsion team, significantly enhancing project coordination and outcomes by implementing Agile methodologies, which improved team productivity by 30%.

ACADEMIC PROJECTS / RESEARCH

Nexus Effect of Industry 4.0 and Circular Economy Practices in Achieving Sustainable Development Goals| Paper *Aug 2023 – Jul 2024*

- Developed a framework for adopting Industry 4.0 technologies and Circular Economy practices to achieve Sustainable Development Goals in manufacturing and prioritized KPIs employing Pythagorean fuzzy AHP-CoCoSo.
- Led a panel of 15 industry experts from Indian manufacturing sectors in a robust data collection process through pairwise comparison matrices, enhancing the framework's applicability and accuracy.
- Contributed to theoretical enhancement and practical implementation guidelines for industrial practitioners aiming to integrate sustainable technologies and practices.

Store Sales Forecast using Power BI | Project *May 2024 – Jun 2024*

- Identified the KPIs, and designed an intuitive and visually appealing dashboard with interactive visualizations and filtering capabilities, allowing stakeholders to explore the data at various levels of granularity.
- Leveraged historical data and applied time series analysis to generate sales forecasts for the next 15 days.

Market Survey-Based Car Pricing Analysis | Project *Apr 2023 – Jun 2023*

- Developed an Exploratory Data Analysis project using Python to understand car price determinants and selected features for visualization, built plots leveraging Python data visualization libraries, and presented findings.

Warehouse Allocation Optimization Using Linear Programming | Project *Feb 2022 – Mar 2022*

- Developed a linear programming model utilizing Python and PuLP to optimize warehouse allocation and minimize transportation distances, enhancing logistics efficiency through strategic decision-making and data analysis.

SKILLS AND CERTIFICATIONS

Skills: Time series forecasting, Agile, Risk Assessment, Supply Chain Optimization, Value Stream Mapping, Capacity Planning, Lean Manufacturing, 3D Designing

Technical Skills: MySQL, Python, R

Tools: Power BI, Tableau, MS Excel, Notion, Google Sheets, MS PowerPoint, Solid Edge, Creo Parametric

Certifications: Supply Chain Analytics, Business Intelligence using Power BI, Lean Six Sigma Foundations