Naresh Kandikanti

Fairborn, OH nnareshkandikan@gmail.com +1 937-516-7543
View my portfolio: naresh-kandikanti.netlify.app Naresh Kandikanti

Professional Summary

Passionate about leveraging industrial engineering principles to drive efficiency, optimize processes, and enhance quality. Seeking opportunities to apply my expertise in data-driven decision-making, Lean methodologies, and technical problem-solving to contribute to innovative and impactful projects.

Experience

Graduate Research Assistant *Fairborn, OH*
Wright State University *Jan 2025 – Current*

- Conducted research on Urban Air Mobility (UAM) optimization using statistical analysis and Six Sigma methodologies.
- Developed optimization models for transportation and facility location problems.
- Collaborated with faculty to publish findings on quality management and industrial optimization.

Design Engineer *Hyderabad, India*
Cyient *Jun 2021 – Aug 2022*

- Ensured 100% quality compliance by adhering to ATA 100, ISPEC 2200, and S1000D standards.
- Conducted Root Cause Analysis (RCA) to improve technical documentation accuracy.
- Updated 2D/3D CAD models and optimized workflows to reduce rework in engineering documentation.

Education

Wright State University *Fairborn, OH*
MS in Industrial and Human Factors Engineering *Fall 2023 – Present*

- GPA: 3.9/4.0

MVSR Engineering College *Hyderabad, India Fall*
BS in Mechanical Engineering *2016 – Fall 2020*

- GPA: 3.6/4.0

Projects

Six Sigma Green Belt Project *Fall 2024*
Certified Six sigma Green Belt

- Improved paper helicopter flight time to 3.0 seconds using DMAIC methodology, achieving a Cpk of 1.7, reaching 85% of the Six Sigma target.

Route Optimization Using Excel Solver *Fall 2024*

- Reduced travel distance by 69% (6.5 miles to 2 miles) using the Traveling Salesman Problem (TSP) framework.

Traffic Signal Optimization Using Simio *Spring 2024*

- Reduced vehicle waiting times by 42.8% by optimizing traffic signal timing using Simio simulation and analyzed queue lengths, server utilization, and traffic flow efficiency.

Modeling and Analysis of AL7075 using Abrasive Water Jet Machining *Fall 2020*

- Optimized abrasive water jet machining parameters, improving production efficiency and material strength.

Skills

Process Optimization: Lean Manufacturing, Six Sigma, Kaizen, Root Cause Analysis (RCA), Design of Experiments, Optimization methods, DMAIC, FMEA, APQP
Software: SolidWorks, AutoCAD, Minitab, Excel Solver, Python, Power BI, Simio
Data Analysis: Statistical Modeling, JMP, VBA, MS Excel