NARESH KANDIKANTI

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CAREER SUMMARY

Results-driven Industrial Engineering professional with 2+ years of experience in manufacturing, quality assurance, and technical documentation within aerospace and industrial sectors. Skilled in CMM inspection, GD&T, blueprint interpretation, and SPC, with a strong foundation in Lean Six Sigma and root cause analysis. Proven ability to optimize processes, produce high-accuracy technical content, and support cross-functional teams. Proficient in tools such as SolidWorks, AutoCAD, MS Excel (Advanced), and SAP.

EXPERTISE

Technical documentation | Manufacturing process optimization | SolidWorks & AutoCAD | Root Cause Analysis (RCA) | CAPA & FMEA | Advanced Excel (VBA, pivot tables) | Lean six sigma principles | Quality assurance | Project coordination | Engineering change management | Data analysis & visualization | Cross-functional collaboration | ISO & regulatory compliance

TECHNICAL SKILLS

SolidWorks | AutoCAD | Microsoft Excel (Advanced VBA, Pivot Tables) | Power BI | Minitab | Teamcenter | SAP | Simio | MATLAB | Python | SQL | MS Project | Microsoft Office | Lean Manufacturing | Six Sigma (Green Belt) | DMAIC | FMEA | Root Cause Analysis | 5S | Process Mapping | Time & Motion Study | Statistical Process Control (SPC)

PROFESSIONAL EXPERIENCE

DESIGN ENGINEER | Cyient (For Honeywell Aerospace) | Hyderabad, Telangana, India Jul 2021 – Jul2023

Supported Honeywell Aerospace's technical documentation and engineering design processes, delivering high-precision deliverables and documentation for mechanical components, ensuring adherence to aerospace and quality standards.

- Created and updated 200+ Component Maintenance Manuals (CMM), Illustrated Parts Catalogs (IPC), and Aircraft Maintenance Manuals (AMM), ensuring compliance with ATA iSpec2200 and S1000D standards
- Used tools such as Arbortext Editor, and XML-based content management systems to develop modular documentation for aerospace systems
- Collaborated with cross-functional teams (design, stress, and reliability engineers) to extract and validate technical data, improving first-time accuracy of documentation by 25%
- Interpreted engineering drawings and CAD models using AutoCAD, SolidWorks, incorporating GD&T standards
- Streamlined documentation workflows using Teamcenter, reducing average revision turnaround time by 18%
- Supported Six Sigma initiatives by identifying documentation inefficiencies and proposing corrective actions, contributing to a 12% reduction in rework cycles
- Mentored and trained a cross-functional team of junior engineers and writers in digital documentation tools and standards (Arbortext, Teamcenter), enhancing team productivity and accelerating onboarding by 20%; fostered a culture of data-driven accuracy and continuous improvement.
- Performed dimensional inspections using Coordinate Measuring Machines (CMM) to validate aerospace components against GD&T-based blueprints, supporting quality assurance and machining accuracy.

RESEARCH ASSISTANT | Wright State University| Fairborn, OH, USA Jul 2024 – May 2025

Contributed to optimization research and administrative operations supporting academic and applied projects in logistics, systems design, and resource allocation. This dual role involved both hands-on data analysis and stakeholder collaboration to enhance institutional processes.

- Conducted applied research on route optimization strategies for Urban Air Mobility (UAM) systems, focusing on minimizing travel time and maximizing delivery efficiency within constrained networks
- Employed Excel Solver to model and simulate logistics operations, achieving a 22% increase in efficiency through streamlined routing and resource scheduling
- Analyzed demand fluctuations and delivery constraints using descriptive statistics and sensitivity analysis, leading to cost-saving recommendations and reduced cycle times
- Collaborated with cross-functional academic teams to present findings and contribute to the design of scalable routing systems tailored to emerging supply chain challenges.

MANUFACTURING ENGINEER INTERN| DRDO | Hyderabad, Telangana, India Jul 2019 – Mar 2020

Supported advanced machining and process optimization efforts for aerospace-grade aluminum components, contributing to cycle time reduction and production reliability in a high-precision defense manufacturing environment.

- Conducted time studies and machining parameter optimization using ANOVA and Design of Experiments (DOE) for AL7075 alloy components
- Applied lean and FMEA techniques to reduce cycle time and improve tooling/process reliability in machining operations
- Utilized CMM equipment to collect and analyze precision measurements for AL7075 alloy parts, ensuring compliance with engineering specifications and tolerances.

EDUCATION

Master's Degree | Industrial Engineering | Wright State University 2023 – 2025
Bachelor's Degree | Mechanical Engineering | MVSR Engineering College 2016– 2020

CERTIFICATIONS

Six Sigma - Green Belt | Lean for Manufacturing | Advanced Excel | SQL (Basics) | ICLAMP Certification (Research Contributions)