Ajay Simha Thadishetti

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**PROFILE**

To leverage my expertise and skills and utilizing my experiences, contributions and certifications to contribute effectively to the success of the company. Seeking a challenging role that fosters professional growth, encourages innovation and allows for the application of diverse skill set.Possess strong communication and leadership skills, with a proven ability to work effectively in unionized environments and across all levels of management.Holds an Engineering degree, with a solid foundation in technical problem-solving and a commitment to delivering high-quality results.

**EDUCATION**

**Master of Science in Campbellsville University** Jan 2023 - Aug 2024

Campbellsville University GPA:4.0

**Bachelor of Technology in Mechanical Engineering** Mar 2019 - Jul 2022

Sreyas Institute of Technology GPA: 7.1

**SKILLS**

* Planning, Scheduling, Warehouse management and Inventory Control
* Ms Office,Ms word,Ms excel
* Transportation Management Systems for optimizing transportation routes
* Supply Chain Analytics
* Experience/Understanding of SAP
* CAD,CATIA and SOLID WORKS
* VBA Understanding
* Six Sigma & Continuous Process Improvement
* Statistical Process Control
* Project Management Skills
* Quality Management Systems

**EXPERIENCE**

**Quality and Manufacturing engineer**

ASACO Private Limited,India Jul 2020 - Jan 2022

* Autodesk **2D and 3D** Design Software: Proficient in creating detailed technical drawings and models, utilizing parametric modeling and assembly design.
* Familiar with integrating mechanical, electrical, and computer systems for complex product development.
* Managed project documentation and communicated design revisions effectively using **Microsoft Office tools**, including **Word**, **Excel**, **PowerPoint**, **SharePoint**, Teams, and Planner.
* Participated in design reviews and contributed innovative ideas to improve product designs and manufacturing processes that co ordinates with the **ERP** and **MRP** planning systems.
* Experience in creating current-state and future-state **VSMs** to visualize and analyze material and information flows within manufacturing processes
* Applying **5S principle**s (Sort, Set in Order, Shine, Standardize, Sustain) to create organized, efficient, and clean work environments.
* Knowledge of Six Sigma methodologies, particularly the **DMAIC** framework, for process optimization and quality control
* **Analyzed and interpreted P&ID**s to ensure accurate assembly, operation, and troubleshooting of mechanical systems in a manufacturing environment.
* Developed and maintained **Bills of Materials (BOMs)** and executed **Engineering Change Orders (ECOs)** using ERP systems.
* Interpreted data, charts, and graphs to identify trends, anomalies, and opportunities for process improvement.
* Experience with ERP systems, particularly **SAP**, to optimize business processes and improve system integration efficiency."
* Basic understanding of **VBA** with the ability to write simple scripts to automate tasks in Excel.
* Advanced proficiency in Microsoft Excel, including data analysis, pivot tables, and macros for efficient data management and reporting.
* Experienced in Continuous Improvement methodologies such as **Lean Manufacturing**, **Six Sigma**, and **8D problem-solving techniques.**

**Quality & Project Development Inter** Mar 2022 – Jun 2022

*Akella Systems, India*

* Develop comprehensive quality control procedures and maintain product quality
* Enhancing quality control protocols, inspection methods, and quality assurance.
* Foster a culture of innovation, experimentation, and continuous improvement within the R&D team
* Establish collaboration channels with internal teams, external partners, and research institutions to leverage expertise and resources for **R&D projects.**
* Experience using **Autodesk fusion 360** for collaborative design and assembling of mechanical components.
* Expertise in developing detailed 3d models using **CATIA**(Computer Aided Three Dimensional Interactive Application
* Experienced in Continuous Improvement methodologies, including **Lean Manufacturing and Six Sigm**a, to drive process improvements and efficiency.

**Quality Control & Inspection**

*National Small Industries Corporation Ltd, India* May 2018 – Apr 2019

* Utilize precision measuring instruments such as **Coordinate Measuring Machines (CMMs)** to verify the dimensional accuracy of machined parts.
* Proficient in Microsoft Excel, PowerPoint, and OneNote with a strong understanding of complex data analysis and presentation creation.
* Utilize in-process inspections during machining stages to detect early dimensional deviations and make timely adjustments.
* Utilize **advanced planning and scheduling (APS**) software to optimize resource allocation, production scheduling, and capacity planning in **CNC** turning and milling operations.
* Integrate material requirements planning (**MRP**) systems to ensure timely procurement of raw materials, tooling and other resources needed for production.
* Apply lean manufacturing principles such as 5S, kaizen, and value stream mapping to eliminate waste, streamline production and efficiency in **CNC** machining operations.
* Implement **Statistical Process Control (SPC)** techniques to monitor and control the machining process variability, such as control charts for dimensional tolerances and statistical analysis of process data.
* I had a particularly enlightening experiencein Cesars Piping that underscored the importance of quality assurance in engineering projects

**PROJECTS**

* Develop a solar-powered pick-and-place rover employing robotic mechanisms with precision control variables.
* Reducing Defect Rates in Manufacturing where Successfully applied Lean principles and six sigma methodologies to identify and eliminate waste, streamline processes, and increase productivity.Utilized the **DMAIC** methodology. Defined the problem, measured current defect rates, analyzed root causes using tools like fishbone diagrams and Pareto charts, implemented improvements, and established control measures.
* Project undergoing operations research methods to optimize inventory management practices within a supply chain and inventory models, such as **Economic Order Quantity (EOQ)** to minimize inventory holding costs and product quality.
* Analysis of tensile properties of Laser Welded Dissimilar Alloys using Taguchi method and performing regression analysis.
* Development of Instant Water Chiller and performing effectiveness and identifying high-quality materials suitable for the water chiller components, including the chiller unit, tubing, pump, and insulation.

**CERTIFICATIONS**

* Certificated by **National Small Industries Corporation** on Quality and Inspection Control.
* Certification on Performance of Material Handling Projects in **Aerospace Industries.**
* Certification in the design softwares like **CATIA and CAD (2D and 3D**).

**PUBLICATIONS**

* Journal Published by International Journal of All Research Education and Scientific Methods under the topic of An Analysis on Electric Vehicle