

# KARTHIK KUMAR REDDY NAGA

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## OBJECTIVE

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Dynamic and skilled Industrial Engineer with 1.5 years of experience in Manufacturing and Automotive Environment with remarkable implementations of Lean manufacturing and Six Sigma Methodologies for Continuous process improvement and cost optimization. Looking for an opportunity to work as a Mechanical engineer in a renowned organization.

## EDUCATION QUALIFICATION

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### **BOWLING GREEN STATE UNIVERSITY, Bowling Green, Ohio, U.S**

Master of Technology in Management

*May 2018 (Expected Graduation)*

Specialization: Engineering Technology

(G.P.A: 3.5/4)

### **SATHYABAMA UNIVERSITY – Chennai, India**

Bachelor of Technology in Mechanical Production Engineering

*May 2015*

## CORE COMPETENCIES

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**Design Tools:** AutoCAD, Solid Works, CATIA V5, Ansys

**Software's:** MATLAB, SAP, MS Word, MS Excel and MS Power Point.

**Quality Improvement Tools:** DMAIC, FMEA, Cause-and-effect, SPC, PDCA,5- Why's, PPAP, TPM, Lean Manufacturing

**Coursework:** Industrial Project Management, Data Analysis & Process Control, Six Sigma analysis & Process Improvement, Quality Culture Assessment, Computer Automated and Integrated Manufacturing, Industrial Robotics Technology, Quality planning, Lean Tools and implementations, Renewable Technologies, Engineering & operations management.

## PROFESSIONAL EXPERIENCE

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### **Process Quality Engineer, Quality Assurance Department**

**June 2015 - November 2015**

#### **EMERALD RESILIENT TYRE MANUFACTURERS PRIVATE LIMITED, CHENNAI, INDIA**

- Responsible for quality assurance and customer service claims of FORD Products.
- Reduce rejection rate of products from 5% to 3%.
- Analyzed the functioning of proximity and conductivity sensors in the process manufacturing to reduce run time errors.
- Testing and inspected product for flaws and quality: recording any malfunctions for discussion with supervisors.
- Played as a billable resource in developing product quality and in increasing manufacturability by involving in organization product development life-cycle.
- Performed the tasks of ensuring the ISO standards of the product by coordinating with the quality system staff.

### **Industrial Engineer Intern**

**May 2014 – Aug 2014**

#### **SRC GREEN POWER PRIVATE LIMITED, CHENNAI, INDIA.**

- Tested and inspected products for any malfunctions; reporting any serious issues to the supervisors.
- Prepare, verify and modify top level documents detailing product manufacturing schedule, documentation requirements and product scope for conformance to technical specifications and internal standards.
- Conduct Quality assurance activities on varies systems and subsystems to ensure procedures, designs and work methods are being properly executed while implementing cost effective solutions.
- Provide assistance to manufacturing in trouble shooting problems. Generate and standardize documents and standard operating procedures(SOP).
- Reduced Production Part Approval Process(PPAP) lead time by 50% Worked with design engineering to optimize product design, review of product design for manufacturability and transaction from design to production.

## Design and Manufacturing Intern

January 2018 – Present

### WORK LEADS TO INDEPENDENCE, BOWLING GREEN, OHIO, U.S

- Created 3D models from sample parts to production and developed detail drawings using AutoCAD and Solid Works.
- Reduced setup time by up to 50% by using SMED methodology.
- Participated in time management to develop production
- Analyzed workplaces for reducing work cycle time of operations.
- Participated in total productive Maintenance (TPM) activity.
- Participated in meetings with top level executives regarding business development and production expansion plans.
- Participated in Process Failure Mode Effects Analysis (PFMEA).

### SKILLS

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|--|---|
| • Project Management                       | • ISO9001:2008                            |
| • Product Development                      | • Primavera p6                            |
| • Quality Assurance                        | • Total quality management                |
| • Lean System Analysis                     | • Production Part Approval Process (PPAP) |
| • Six Sigma Analysis                       | • Cost reduction Projects.                |
| • Leadership Skills                        | • Auto CAD                                |
| • Process Development                      | • Continuous Improvement                  |
| • Problem Solving                          | • Safety Management                       |
| • Advanced Product Quality Planning (APQP) | • Design Failure Mode and Effect Analysis |

### ACTIVITIES

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- Project analysis on waste management by using Lean System Analysis.
- Robotics 20-sim design and simulation.
- System Application and Products in Data Processing(SAP).
- Time Study
- Good knowledge on Data Analysis, Operation research and Production Planning and Control.
- Member in Blood Cross Society and organized blood donation camps.
- Event coordinator in Technosummit'13 Experts Hub.
- Organizer for various events in Indian Student Association at Bowling Green State University.
- Team leader for Cross Cultural Connection at Bowling Green State University.