CHAITANYA GAWANDE

CAREER FOCUS: Quality Engineering / Industrial Engineering

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CAREER HIGHLIGHTS

- Quality, manufacturing, and engineering management professional with 2 years of experience in the high-volume manufacturing industry; adept problem solver, effective communicator.
- ASQ Certified Quality Process Analysts (CQPA) and experienced in the field of six sigma.

EDUCATION

➢ Master of Science in Industrial and Systems Engineering, 3.53 GPA *12/20*
University of Michigan–Dearborn, Dearborn, MI
➢ Bachelor of Engineering in Mechanical Engineering *05/17*
University of Pune, India

PROFESSIONAL EXPERIENCE

Teaching Assistant: Stat 263 – Introduction to Statistics, University of Michigan – Dearborn *09/20 – 12/20*

- Provided instruction to students covering a variety of data analysis topics related to business statistics.
- Lectured a review session before the finals to assist students in productive studying and exam performance.

Quality Engineer, Lumax Auto Ltd. Pune, India *07/17 – 06/18*
The leading tier one supplier of injection molded lighting systems and solutions in the Indian automotive business.

- Conducted Gage repeatability and reproducibility (GR&R), Measurement System Analysis (MSA), and Statistical Process Control (SPC) study to eliminate process variations.
- Participated in internal and external quality audits, maintaining engineering documents as per IATF 16949 standard.
- Prepared 8D corrective action reports for customer complaints by performing root cause analysis and documented work instruction with the help of One Point Lesson (OPL) and Containment instructions.
- Assisted the project teams for product launch activities – Creating and collecting documents for Production Part Approval Process (PPAP).
- Monitored first article inspection checks by inspecting 5 samples every 4 hours against blueprints.
  Project:
  - Spearheaded cost-saving activity by utilizing 7-QC tools by using plan–do–study–act (PDCA) methodology to curtail internal rejection of the tail lamp lens and accomplished reduction in costs by ₹86k per year.
  - Worked in conjunction with the design engineering team to help improve the design efficiency and achieved up to 50% reduction in rejection.
  - Primarily brainstormed to identify the potential causes of a problem using the fishbone diagram.
  - Conducted 5-Why analysis to find the root cause of nonconformance for tail lamp lens which indicated design error.
  - Modified and validated solutions and made necessary changes in the blueprint.
  - Prepared a One Point Lesson (OPL) document to provide awareness to the operators.

Quality Engineering Intern, Lokesh Machine Ltd. Pune, India *05/16 – 12/16*

The leading supplier of machined engine cylinder blocks, cylinder heads to automotive OEMs.

- Contributed to the process improvement project by implementing self-locking gripper system to reduce working time further making material handling system safer which improved factor of safety by 30%.
- Received hands-on exposure in the quality control department under the Senior Quality Engineer with insights received on control charts (establishment and monitoring), Pareto analysis.

SKILLS

Software	Quality Tools		
Minitab	Six Sigma	CAPA	Incoming Quality Inspection
AutoCAD	DoE	8D	In-process Inspection
Python	PPAP	7 QC	Final Inspection
MS-Office	SPC	GD&T	
	MSA	IATF 16949	

CURRICULAR PROJECTS

DoE and Analysis on Structure Beam Design Concept and Parameters. (Grade: A+)

- Set up Taguchi DoE in Minitab with 27 total runs with 5 IVs, each containing 3 levels.
- Designed a CAD model in CATIA V5 and analyzed it in FEA software.
- Recommended optimal design of the beam to the manufacturing team based on the statistical results.

Reducing the deflection at the tool center point in the CNC lathe by using the statistical software Minitab.

- Established a relationship between the deflection and the independent variables.
- Suggested optimum ambient temperature to minimize the deflection based on the results of regression analysis.

Vehicle (Cadillac SRX) interface improvement using human factors research and design methods.

- Analyzed the core functions, safety features and recommended modification to dashboard and steering wheel controls.
- Performed qualitative and qualitative usability tests on the prototype to identify usability issues.
- Major steps: Task analysis, Prototyping, Usability testing.

Locking Gripper

- Led a team of four to drive a continuous improvement project at the Lokesh Machine Ltd.
- Replaced the conventional chain blocks material handling method with a locking gripper.
- Major steps: Gripper manufacturing and designing (in AutoCAD and CATIA V5).

ASSOCIATIONS

- ➢ Member – American Society for Quality (ASQ)
- ➢ Member – Automotive Industry Action Group (AIAG)

CERTIFICATIONS

Certified Quality Process Analysts (CQPA)	Geometric Dimensioning and Tolerancing GD&T
Six Sigma Green Belt (SSGI)	(LinkedIn)
Implementing Quality Core Tools (AIAG)	AutoCAD 2017 (ITE)