Sanket Kishor Kadam

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PROFESSIONAL SUMMARY

Mechanical Engineering graduate student passionate about Sustainable Engineering. Organized, deadline-oriented problem solver with strong learning mindset. Proficient in a range of modern technologies including Additive Manufacturing, Product Design & Development, Data Analysis, and Project Management.

EDUCATION

Michigan Technological University   Houghton, Michigan
Master of Science in Mechanical Engineering (Manufacturing and Quality Engineering) | **GPA: 3.89**   Expected December 2021
Graduate Teaching Assistant: Manufacturing Processes, Lean Manufacturing
Courses: Lean Manufacturing, Advanced Quality Engineering, Additive Manufacturing, Design for Reliability, Design of Experiments, FEA

University of Mumbai   Mumbai, India
Bachelor of Engineering in Mechanical Engineering | **GPA: 3.26**   Class of 2018

PROFESSIONAL EXPERIENCE

Faurecia - Interior Systems   Saline, Michigan
Quality Engineering Co-op   January 2021 - August 2021
- Championed weekly scrap meetings with cross functional team members to create and implement lean manufacturing techniques (8D), decreasing annual scrap rate below **2%** which saved **$5000** annually
- Conducted Root Cause Analysis for the most significant defects on the Ford-150 & Mustang door panels, Jeep (Wrangler) IP assembly lines and thereby reduced the rework time and defect rate by **40%**
- Facilitated NPI PPAP process by managing AAR, IMDS, CAR & CMM reports for different programs from various suppliers
- Supported process engineers in implementing fixture design changes which resulted in monthly cost savings of **$3500**

Nitin Industries   Aurangabad, India
Manufacturing Engineering Co-op   August 2017 - February 2018
- Investigated parameters affecting molding operation by performing structural & thermal analysis using SolidWorks software for Aluminium mold and identified **15%** reduction in build time and **32%** reduction in weight using LM6 mold
- Reduced breakdown time by **8%** by implementing lean principles and standard work instructions for molding processes which resulted in annual savings of **$1100**
- Analyzed parameters governing blow molding that demonstrated **$2400** reduction in manufacturing cost annually

The Brihanmumbai Electric Supply & Transport Undertaking (BEST)   Mumbai, India
Quality Engineer Intern   January 2017 - February 2017
- Participated in the development and maintenance through PFMEA and Control Plans and monitored and reduced process variation using Statistical Process Control, mistake proofing which resulted in saving of **$3500** annually
- Developed fixtures and work instructions to minimize machine downtime by **2** days, performed time studies for satisfying the order flow as per customer requirements & improved efficiency by **11%** which resulted in annual saving of **$6000**

PROJECTS EXPERIENCE

- **Optimization of Car Manufacturing Process through Lean Tools**   April 2020
  - Investigated defects, wastes in manufacturing flow through statistical analysis and found **78%** reduction in cycle time, **85%** reduction in lead time after analyzing standardized work sheets & value stream maps along with change in cell layouts

- **Process Capability and Statistical Process Control (SPC) study for Manufacturing of Bronze Bushings**   November 2019
  - Eliminated the special causes by collecting and analyzing **250** sample data set using Ishikawa diagram and scatter plots to bring it under statistical control. Computed process capability and percentage of product conforming to the specification

- **Design and Fabrication of Open Sourced 3-D printed Auto-Injector**   December 2020
  - Designed and developed low cost (**30%** reduction), light weight 3-D printed prototype model of Auto-injector considering design lifecycle and environmental impact such as carbon content & energy consumption (LCM study)

LEADERSHIP EXPERIENCE

- **Secretary of Leaders in Continuous Improvement** | Michigan Technological University   December 2019 - Present
  - Administered a general meetings and presented Lean philosophy (Kaizen Events, Gemba Walk, Kanban, 5S) to members
  - Conducted and assisted in various activities to get hands-on idea of lean and continuous improvement concepts

SKILLS

MINITAB | Power-Bi | PPAP | 8D | AutoCad | SolidWorks | MS Office (Word, Excel, PowerPoint) | CNC | Pro E | Ansys | GD&T