

# Sanket Kishor Kadam

skadam3@mtu.edu | 2108C Woodmar Dr. Houghton, MI 49931 | +1 (906) 370-7327

## PROFESSIONAL SUMMARY

Mechanical Engineering graduate student passionate about Lean Manufacturing, and Process Improvement. Well-organized, and Detail oriented problem solver with strong learning mindset and positive attitude, who likes to take initiative. Proficient in a range of modern technologies including Minitab, Layout Optimization, Product Design and Development, Data Analysis, Root Cause Analysis, and DFMEA. Looking for a **Manufacturing-Quality Engineering Internship** opportunity starting January 2021

## EDUCATION

### Michigan Technological University

Master of Science in Mechanical Engineering (Manufacturing and Quality Engineering) | **GPA: 3.92**

Houghton, Michigan

Expected August 2021

**Graduate Teaching Assistant: Manufacturing Processes, Lean Manufacturing**

**Courses:** Lean Manufacturing, Quality Engineering, Additive Manufacturing, Facility Layout & Safety Design, Design of Experiments

### University of Mumbai

Bachelor of Engineering in Mechanical Engineering | **GPA: 3.26**

Mumbai, India

Class of 2018

## PROFESSIONAL EXPERIENCE

### UMS Engineering Pvt. Ltd

Manufacturing Engineer Intern

Mumbai, India

June 2018 - October 2018

- 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
- Saved **\$1400** on a single quote through negotiation and finding multiple supplier options as per quality metrics
- Deployed inspection checklist & interactive Power-Bi dashboards to track status of safety issues & quality defects (KPI)

### Nitin Industries

Manufacturing Engineer Co-op

Aurangabad, India

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)

Quality Engineer Intern

Mumbai, India

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
- Hands on work including welding and assembling differential gears for transmission boxes, replacing assemblies on customer vehicles, fabrication, mechanical wrenching, and **300** hours of lab inspection (product testing)
- 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 delivery time by **11%** which resulted in annual saving of **\$6000**

## PROJECTS EXPERIENCE

### • Optimization of Car Manufacturing Process through Lean Tools

April 2020

- Investigated defects 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, reduction in total number of operators by **16%** using U-shaped production cell layout

### • Process Capability and Statistical Process Control (SPC) study for Manufacturing of Bronze Bushings

November 2019

- Eliminated the special causes by analyzing **250** sample data set using RCA, Cause & effect diagram and scatter plots to bring it under statistical control. Computed process capability and percentage of product conforming to the specification

### • Value Analysis for Cost Reduction in Lead Pencil Manufacturing

May 2018

- Justified saving of **\$1000** annually by performing value analysis of Lead Pencil with Functional-Cost-Worth-Analysis and Functional Analysis System Technique which also resulted in improved aesthetics and reduced variation in parts.

## LEADERSHIP EXPERIENCE

### • Secretary of Leaders in Continuous Improvement | Michigan Technological University

December 2019 - Present

- Administered a general meetings and presented Lean tools (Kaizen Events, Six sigma, RCA, 5Why) to members
- Conducted and assisted in various activities to get hands-on idea of lean and continuous improvement concepts

## SKILLS

MINITAB | Power-Bi | 2D/3D Modelling | AutoCad | SolidWorks | MS Office (Excel, Word, PowerPoint) | CNC | Pro E | GD&T