

## SUMMARY

I am a Master's student in Mechanical Engineering with experience in Manufacturing and Quality Engineering. I am an experienced professional with strong problem solving and analytical skills and effective communication skills. Actively seeking Internship/Co-op opportunity starting from Summer (May) 2020. **Open for relocation all over the USA**

## EDUCATION

### Michigan Technological University

Master of Science in Mechanical Engineering | **GPA: 4.0/4.0**

Houghton, Michigan  
August 2019 - Expected April 2021

### University of Mumbai

Bachelor of Engineering in Mechanical Engineering | **CGPA: 7.77/10**

Mumbai, India  
August 2015 - May 2018

## INTERNSHIP EXPERIENCE

### Nitin Industries

Project Intern

Aurangabad, India  
August 2017 - February 2018

- Designed and Simulated Aluminum alloy (LM6) mold for 250ml capacity HDPE bottles
- Analyzed various factors governing blow molding that demonstrated 20% reduction in manufacturing cost

### The Brihanmumbai Electric Supply & Transport Undertaking (BEST)

Intern Trainee: Vehicle Quality

Mumbai, India  
January 2017 - February 2017

- Conducted root cause analysis of cylinder bore using Cause and Effect diagram, Pareto chart and process maps
- Recommended solutions to senior management for inventory reduction through value stream maps
- Diagnosed defects present in various components by performing overhauling

## PROJECTS EXPERIENCE

- Process Capability and Statistical Process Control study for Manufacturing of Bronze Bushings** November 2019
  - Generated sample data for surface roughness of bronze bushings along with parameters that affects this process
  - Categorized and minimized root causes present in system and performed process capability study
- Static behavior of dental implant for different grades of Titanium and its alloys using FEM** December 2019
  - Modeled and performed static structural analysis on dental implant under varying conditions using ANSYS
  - Performed convergence study on dental implant assembly for determining stresses generated and factor of safety
- Design Analysis of Co-Axial Rotor Wind Turbine** July 2018
  - Investigated and analyzed feasibility of co-axial rotor wind turbine using CFD technique
  - Conducted market survey for deciding parameters of importance as compare to traditional systems
  - Detected 38% increase in the power generation from this new assembly as compared to traditional wind turbine
- Value Analysis for Cost Reduction in Lead Pencil Manufacturing: A Case Study** May 2018
  - Performed value analysis of Lead Pencil with Functional Analysis System technique (FAST)
  - Presented functional-cost-worth analysis of pencil and demonstrated techniques to reduce the cost of manufacturing showed 25% reduction in manufacturing cost
- Mathematical modeling, design and simulation of Planimeter** July 2016 - December 2016
  - Designed a planimeter which determines the area under the curve with 5 % tolerance.
  - The project aimed to understand the mathematical modeling behind the planimeter and simulate the design in SolidWorks to validate it.

## LEADERSHIP EXPERIENCE

- Secretary of Leaders in Continuous Improvement** | MTU's student organisation | MTU December 2019 - Present
  - Administered general meetings and presented Lean manufacturing tools to members
  - Conducted and involved in various activities to get hands-on idea of lean and continuous improvement concepts
  - Cataloged and published minutes/agendas for weekly scheduled meetings and set guidelines for next meeting

## SKILLS

AutoCAD | ANSYS | Creo Parametric | Pro-E | SolidWorks | MINITAB | MS Office Products | MATLAB | Six-Sigma (Yellow Belt)  
CNC Programming | Autodesk FUSION 360 |

## CERTIFICATIONS

- Product Design and Development | NPTEL January 2018 - April 2018
- Six-Sigma Yellow Belt | COURSERA January 2020 - March 2020