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Sanket Kishor Kadam

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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 — Houghton, Michigan
Master of Science in Mechanical Engineering | ***GPA: 4.0*** — *August 2019 - Expected April 2021*

University of Mumbai — Mumbai, India
Bachelor of Engineering in Mechanical Engineering | ***GPA: 3.3*** — *August 2015 - May 2018*

Work Experience

Nitin Industries — Aurangabad, India
Manufacturing Engineer Intern — *August 2017 - February 2018*

- Designed and Simulated Aluminum alloy (LM6) mold for 250ml capacity HDPE bottles
- Investigated parameters affecting molding operation using Pro-E software for steel and prepared report
- Identified **15%** reduction in mold build time and **32%** reduction in weight using LM6 mold
- Reduced breakdown time by **8%** by supervising and implementing 5S principles for blow molding processes
- Analyzed various factors governing blow molding that demonstrated **20%** reduction in manufacturing cost

The Brihanmumbai Electric Supply & Transport Undertaking (BEST) — Mumbai, India
Quality Engineer Intern — *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
- Performed time study for satisfying the order flow as per deadline & achieved **11%** reduction in delivery time
- 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
  - Identified regions of different distribution and sampling errors like stratification and mixing
  - 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

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 (Green Belt) | Lean Tools | CNC Programming | 3D Printing | SPC | DOE | 8D | GD&T | SMED | DFMA | FMEA | HTML | GitHub |

Certifications

- Product Design and Development | NPTEL — *January 2018 - April 2018*
- Six-Sigma Green Belt | Project Management Institute — *January 2020 - March 2020*