JESAL PATEL

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EDUCATION

San Jose State University, San Jose, CA Aug 2020 – May 2025
Bachelor of Science, Industrial and Systems Engineering

SKILLS

Technical Skills Windows, Linux, Mac, Python, MS Office Suite, Google Workspace, Computer Hardware & System Management, Troubleshooting, Process Flow, Problem-solving, Control charts, SolidWorks, AutoCad, ProModel, Mini Tab FlexSim, MatLab, 5S Principles, Six Sigma, Kaizen, Omni CMS.

EXPERIENCE

Student Assistant IAEP Department at San Jose State University, San Jose, CA *Aug 2023 – Present*

- Developed website using Omni CMS
- Managed webinars and live-streaming
- Contributed to Research and Development to empower California systems of support providers to better serve at-promise students.

Student Assistant Marketing Department at San Jose State University, San Jose, CA *Feb 2023 – May 2023*

- Edited photos and videos using Photoshop
- Utilized Vimeo for live-streaming events

Manufacturing and Laboratory Assistant at Vijaya Mettalica Inc, Rajkot, Gujarat, India *May 2018 – Aug 2021*

- Tested different materials that were further going to be used in the manufacturing process
- Enhanced the manufacturing process using 5S Principles
- Worked in a fast-paced environment
- Worked on SolidWorks to make changes to product design
- Worked with different manufacturing and quality control departments

ACADEMIC PROJECTS

Designing Universal Fixture - Current

- Analyzed the whole process at the Sanmina manufacturing plant putting information in Gantt and Flow chart.
- Used DMAIC problem-solving approach.
- Designed and developed a universal fixture system to standardize fixture sizes (small, large, and X-large) for all three inspection stages (AOI, AXI, and FPT) reducing the number of required fixtures from 600 or more to just 9, saving costs and storage space.
- Improves process efficiency by eliminating the need to use different fixtures for different products.

Optimizing Facility Layout

- Developed simulation of a restaurant using ProModel.
- Improved customer flow by optimizing the tables for dine-in
- Optimized the number of staff members including chefs for different food items.
- Enhanced the workflow by optimizing the amount of equipment used for preparing food.

Improving Kitchen Layout

- Applied Lean Manufacturing principles such as 5S and Kaizen to enhance the kitchen's layout.
- Reduced the search time to locate the correct item.
- Organized the layout such that while cooking everything goes in one flow

Planning and Forecasting of Products

- Collaborated in a group project to Forecast the demands of different products by using different forecasting methods from the given demand of all the products.
- Did Aggregate Planning, Material Requirements Planning (MRP), Master Production Schedule (MPS), Capacity Planning, and Scheduling Methodology based on the forecasted data.
- Created a simulation model using ProModel simulation software to test the efficiency of suggested techniques.

CLUB ACTIVITY

Member, Institute of Industrials and Systems Engineers (IISE) *Present*