

RISHI MOHAN

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EDUCATION

UNIVERSITY OF SAN FRANCISCO

Master of Science in Data Science

Relevant Coursework: Machine Learning, Data Acquisition, Statistics, Data Analysis, SQL

San Francisco, CA

Expected June 2024

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Bachelor of Science in Industrial Engineering

Champaign, IL

May 2023

RELEVANT EXPERIENCE

ILLINI SOLAR CAR

Director of Operations

Urbana, IL

August 2019 – May 2023

- Managed network of team alumni to act as cross-functional advisory board for vehicle design & operational decisions while collaborating with team leadership
- Handled operational tasks and financials, managing \$100k+/yr. in cash & material through 501c3
- Coordinated relationships with over 60 corporate and university sponsors to negotiate support agreements between \$5,000 and \$35,000 in value

SIEBEL CENTER FOR DESIGN

Student Supervisor

Champaign, IL

August 2021 – May 2023

- Supervised multiple projects involving 20 lab attendants through physical and digital design & prototyping processes including CAD and Adobe tools
- Trained users on usage of fabrication equipment including full woodshop, waterjet cutter, laser cutters, and large-format printer
- Assisted users with product design & manufacturing, graphic design, and photography-related projects

EATON, VEHICLE GROUP

Operations Management Intern

Kearney, NE

May 2022 – August 2022

- Gathered data and tracked theoretical production capacity of 25+ part numbers across 6 production lines using 9 years of hourly production output data
- Maintained production output database and report generation process for process owners and executives, saving process owners 10h / week
- Updated grinding wheel collection data across 9 machine groups on finishing lines to inform purchasing
- Visualized key line performance data indicators to help identify root cause for production shortfalls & target potential improvements including capital investment, machine rebuilds, and operator retraining
- Generated executive summaries for plant and regional leadership to best target improvement investment

SELECT PROJECTS

CYCLE TIME ANALYSIS STUDIES – EATON

July 2022

- Built a multiple linear regression model utilizing shift production data in a large manufacturing environment to generate more accurate forecasts for true shift production and set more appropriate production goals
- Modeled and visualized true shift performance to provide executive clarity on annual performance changes, target areas for improvement, and alleviate scheduling complexity
- Conducted time-series analysis to identify major contributors to production efficiency and output shortfalls

SENIOR ENGINEERING CAPSTONE – JULIAN ELECTRIC

December 2022

- Worked with an industry partner to identify methods to reduce waste in the production process by phasing out destructive testing methods for ultrasonically welded cable assemblies of dissimilar metals
- Designed a machine vision system with rapid prototyping methods to fixture testing elements for vision-based testing from multiple perspectives
- Wrote a Python computer vision algorithm using transformed pixel color counts and openCV contour detection to analyze differences in welded terminals and determine go/no-go on quality of cable
- Performed statistical testing on the vision testing methodology to compute type-I and type-II error probabilities and associated costs for the industry partner