

VED MOHAN

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EDUCATION

Georgia Institute of Technology

May 2021

B.S. Industrial & Systems Engineering
Concentration in Economics and Financial Systems
Highest Honors

PROFESSIONAL EXPERIENCE

Supply Chain Implementation Consultant, OMP

July 2021 – Present

Atlanta, Georgia

Project: Migrating a Fortune 500 medical devices corporation to a **global integrated business planning system** from 4 legacy planning systems.

- Held detailed analysis sessions with client SMEs to understand supply & demand planning needs.
- Owned the design and implementation of 2 functionalities:
 - **Simulation Management** framework to allow planners to conduct project design, scenario comparison, and sensitivity analysis over a 36 month horizon. Supply chain users can run simulations and test hypotheses in parallel to live data.
 - **Product Cannibalization** framework to model shifts in volume forecasts during New Product Introductions (NPIs). Model accounted for the mapping between 3 potential revenue streams.

Results: Project lead to a 2% reduction in the client's operational expenses.

Other responsibilities:

- Provide support to client's supply chains by using 1st party data to deliver ad hoc insights.
- Translate business requirements into dashboards for data visualization.

Supply Chain Intern, Walmart eCommerce

May 2020 – August 2020

Chino, California

Project: Predicting facility damage adjustments.

- Shadowed inbound, outbound, and support operations to understand factors contributing to damages.
- Understanding was applied to create a model to identify high risk SKUs (65% Precision).
- Model was leveraged to create:
 1. **Receiving door risk tool** to address 10% of facility damages attributed to Inbound processes. Trained associates and managers to use tool to position experienced associates on high risk freight.
 2. **Cycling prioritization tool** to address 7% of facility damages attributed to failed Outbound inventory picking trips. Tool was used as the basis for a new damage blitzing process.

Results: New implementations carried an estimated annual facility savings of \$100,000.

Other responsibilities:

- Functioned as a Quality Assurance Manager for the Fulfillment Center at Chino, CA.
- Managed a team of 8 associates.
- Ensured operational quality and success of daily, weekly, and quarterly fulfillment center metrics.
- Robust emphasis on team development by individual planning and training.

Operations Intern, Focus Brands

May 2019 – August 2019

Atlanta, Georgia

Project: Increasing a Quick Service Restaurant's (Schlotzsky's) Learning Management System (LMS) usage and adoption.

- Identified corporate and franchise stakeholders to understand training and operations procedures.

Updated: February 22, 2022

- Created a new **repository structure** to address silos in training and understanding.
- Designed an **incentive program** for 360 Locations to address minimal awareness of LMS' tools offered.
- Incentive program features included: automated progress measurement and notification, balanced scoring across franchises of different sizes, and a modular structure.

Results: LMS was reorganized to the new repo structure. An incentive program was rolled out in Q4 2019.

Research Assistant, Gwinnett Dept. of Water Resources
Lawrenceville, Georgia

June 2018 – August 2018

- Studied the impact of septic system eutrophication on Lake Lanier's water quality to inform economic development efforts of Gwinnett County and neighboring counties.
- Duties included sampling design and collection, attending budget meetings and contract negotiations.

STUDENT LEADERSHIP EXPERIENCE

Team Lead - Senior Design, NAPA Auto Parts
Nashville, Tennessee

August 2020 – May 2021

- Capstone student project partnered with NAPA, an aftermarket automotive parts provider.
- Lead a team of 7 students.
- Awarded **1st place**.

Project: To improve the labor productivity of NAPA's newest distribution center (DC) in Nashville.

- Solution strategies addressed the putaway, picking, and consolidation operations. My team delivered three tools that NAPA can easily integrate into their warehouse management system:
 1. **Dynamic store-to-putwall assignment:** Used genetic algorithm to re-assign putwall setup to reduce daily labor.
 2. **Fast pick zone:** Recommends top SKUs. Offers customization and comparison of designs.
 3. **Putaway:** Recommends SKUs to relocate to decrease putaway labor.

Results: A two-week pilot at the DC coupled with extensive backtesting of the proposed solutions demonstrated that NAPA can expect to improve productivity by 7%.

PROJECTS

Computational Data Analysis

- Applied supervised and unsupervised techniques to predict cornerback draft order in the NFL.
- Combined collegiate affiliation information and physical measurements to predict draft viability and rank for NFL hopefuls.

SKILLS

Software Python (NumPy, Pandas, Sklearn), SQL, Advanced Excel, R, CPLEX.

Concepts Probability, Statistics, Simulation, Experimental Design, Regression, Forecasting, Statistical Process Control, Root Cause Analysis, Process Improvement, DMAIC, Linear Optimization, Discrete Optimization, Constraint Programming, Time Series, Data Processing/Manipulation with Python, Relational Database Systems, Capital Investment Analysis, Engineering Economics, Investment Analysis.

AWARDS AND CERTIFICATIONS

Awards Zell Miller Scholarship (Tuition), 1st Place (Senior Capstone Project).

Certifications Certified Supply Chain Professional (CSCP), Six Sigma Green Belt.