Simon Karl Angeles Difuntorum

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Education

San José State University (SJSU)

M.S., Industrial & Systems Engineering, Operations Analytics Concentration	Aug 2025 - May 2027
B.S., Industrial & Systems Engineering	Aug 2022 - May 2026

- **Achievements:** Dean's Scholar
- **Coursework:** Operations Planning & Control, Methods Design, Operations Research, Global Supply Chain Management

Project Experience

Engineering Management Consultant (Capstone), *Town of Los Gatos*　　　　　　　Aug 2025 - Dec 2025
- Analyzed permitting workflows, targeting 15% cycle time reduction, by conducting site visits and work sampling
- Quantified administrative delays across 100+ permits using Accela data to build standardized tracking tools
- Delivered 3 improvement recommendations to stakeholders by synthesizing operational data and workflow findings

Production Planning & Demand Forecasting, *SJSU*　　　　　　　　　　　　　Aug 2025 - Dec 2025
- Developed demand forecasts with MAD < 8 accuracy by applying Holt's Method and regression to 24 months of data
- Built aggregate plans and MRP models, projecting $182K cost savings by evaluating labor and inventory tradeoffs
- Analyzed capacity constraints across 3 scenarios to improve plan stability by modeling demand variability

Undergraduate Researcher, *SJSU*　　　　　　　　　　　　　　　　　　Aug 2025 - Dec 2025
- Supported a faculty-led research project by analyzing acoustic sensor data to explore equipment behavior patterns
- Processed and organized experimental datasets in Python to assist with basic anomaly detection analysis
- Documented methods and preliminary findings and shared weekly progress updates with the research group

Project Manager – FitTrack Pro App Development, *SJSU*　　　　　　　　　　Aug 2025 - Dec 2025
- Led a 7-student project team by organizing tasks and timelines to deliver an end-of-term functional app prototype
- Defined basic functional requirements from assignment guidelines and peer input to guide feature implementation
- Coordinated peer testing and documented issues to support iterative improvements before final project submission

Database Management Lab Project, *SJSU*　　　　　　　　　　　　　　　　　　　Mar 2025
- Designed and implemented a relational MySQL database as part of a database systems laboratory assignment
- Populated and validated a dataset of 200+ records to support querying, reporting, and analysis exercises
- Wrote SQL queries and basic documentation to demonstrate database functionality and design decisions

Leadership Experience

Logistics & Operations Lead, *IISE Western Regional Conference*　　　　　　　Jan 2025 - Present
- Direct logistics for a 100+ attendee conference by managing schedules, vendors, and task dependencies
- Manage a $15K budget with zero overruns by coordinating vendors and tracking real-time expenses
- Coordinate 3 industry tours and 10 workshops by aligning logistics with partner availability

VP of Membership Relations, *Institute of Industrial & Systems Engineers (IISE)*　　　Mar 2025 - Present
- Expanded chapter membership by 30+ students by leading recruitment initiatives across engineering departments
- Improved member retention by ~20% by organizing 5 events and refining programming using participant feedback
- Tracked membership engagement metrics by maintaining attendance records and monitoring participation trends

Statistical Process Control Tutor, *SJSU*　　　　　　　　　　　　　　　　Jan 2025 - May 2025
- Improved peer exam scores by ~12% by tutoring SPC concepts using applied manufacturing examples
- Clarified statistical methods for 4 students by translating theory into practical process use cases
- Supported long-term comprehension by reinforcing control chart interpretation through repeated practice

Skills

Applications: Minitab, MySQL, Python, R, SQL, SolidWorks, C++, Lua, Ruptures, Blender, Microsoft Office,
Methodologies: Statistical Process Control, Production Planning, Forecasting, Capacity Analysis, Lean Principles, Continuous Improvement, Root Cause Analysis