



Samuel J. Gomez, MIDS, PMP

Creating the Future by Developing Industry 4.0 Technology

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SUMMARY

Director of Engineering and Technology with ten years of experience in automation, engineering, robotics, information technology, and data science. A genuine passion for learning and sharing my experiences with others to accelerate their successful trajectory has paved my track record of delivering transformational business solutions. My leadership and management style promotes professional growth, continuing education, and, most importantly, a safe and fulfilling work environment. I strive to deliver world-class service with the purpose of positively contributing to the organization, individual, and community. I focus on continuously improving the world around me through technology and personal/client relationships.

EXPERIENCE

Director, Engineering and Technology

Tasteful Selections 📍 Arvin, CA 📅 01/2020 – Present

World's Largest Bite-Size Potato Company

- ✔ Appointed to carry out my strategic vision of integrating information technology with industrial automation through data science and control system software development.
- ✔ Methodically create and execute the company's engineering and technology roadmap.
- ✔ Achieved multiple business objectives and supported six-year consecutive sales growth of more than 20% annually through strategic capital planning and ability to breakdown strategy into tactics, manageable work packages, and individual goals.
- ✔ Scaled the engineering and technology departments throughout my tenure to meet the demands of a hypergrowth company that sought to adopt cutting-edge technology to gain competitive advantage.
- ✔ Directed high-performance teams, both internal and external, to implement \$60MM+ in capital projects: \$30MM facility expansion, \$12MM microgrid (combined heat and power, solar, and battery), \$10MM fully automated commodity sorting, sizing, and bin filling system, \$4MM plant-wide robotic case packing and palletizing application, \$3.5MM bin handling and product processing system, \$1.5MM process water recycling, and \$1M semi-truck filling and unloading.
- ✔ Effectively communicated strategic benefit and complex technical requirements across all levels of the organization to gain buy-in for numerous operational and information technology projects that utilize object oriented programming, algorithms, scripting, and data extract, transform and load (ETL) techniques to deliver: customer-focused web application for order tracking, automated production line scheduling, improved overall equipment effectiveness system, FDA compliant product traceability and genealogy system, real-time internal quality data acquisition and reporting, asset RFID and passport tracking, and supply and demand forecasting models.

Sr. Manager, Engineering, Information Technology, and Data Analytics

Tasteful Selections 📍 Arvin, CA 📅 04/2019 – 12/2019

- ✔ Managed a cross-functional engineering, IT, and data analytics team to design, integrate, and commission state-of-the-art industrial control systems, robotic applications, automated solutions, production equipment, electrical power distribution, IT networks, and analysis tools essential for process improvement and facility growth.
- ✔ Discovered and capitalized on a \$10MM sales opportunity by integrating data across multiple platforms using Python, SQL, and R and through a thorough research design seeking to capture product shrink.
- ✔ Programmed an automated first-in first-out (FIFO) process using Python and SQL that allocated the oldest product to production orders through the existing supervisory control and data acquisition (SCADA) system—realized \$400M to the bottom line by reducing aged inventory.
- ✔ Created an algorithm using structured text within a programmable logic controller (PLC) environment that analyzed production line inputs real time, then distributed pick-out product to predetermined locations based on order fulfillment—increased seconds orders by 20%.
- ✔ Developed an algorithm using structured text that analyzed production line outputs real time, then used feedback loops to optimize the product blend based on specifications. This led to better inventory management and improved product availability.

SKILLS

Executive Leadership

Strategic / Capital Planning

Site Master Planning

Facility Expansion

Contract Negotiation

Program / Project Management

Lean Six Sigma /
Lean Manufacturing

Operational Excellence

Data Science

Data Analytics

Machine Learning

Software Engineering

Control Engineering

Electrical Engineering

Mechanical Engineering

Data Engineering

Operational Technology

Industrial Technology

Information Technology

Root Cause Analysis

SYSTEM INTEGRATION

Cloud Applications

Database

Enterprise Resource Planning

Manufacturing Execution

Warehouse Management

Overall Equipment Effectiveness

Product Traceability

Maintenance Management

Office 365

TECHNICAL CAPABILITY

Distributed Control System Design

Database / SQL Server
Management Studio

SQL

Historian

BigQuery

ETL

Networking & Protocols

Programmable Logic Controllers

Object Oriented Programming

Function Block Programming

Python

Structured Text

Ladder Logic

R

API

SCADA / HMI

Ignition

FactoryTalk

Robotics

Statistics

RStudio

Data Wrangling

Pandas

Jupyter Notebook

JSON

Parallel & Cloud Computing

Spark

Kafka

Presto

VMWare / Virtual Machines

Docker

Hadoop

Cloudera

Modeling/Forecasting

Engineering Manager

Tasteful Selections 📍 Arvin, CA 📅 02/2015 – 04/2019

- ☑ Collaborated with the executive team, serving as the engineering subject matter expert and lean manufacturing aficionado, to design and build three ultramodern production facility expansions.
- ☑ Developed a robotic case packing application that reduced labor cost by \$3.5MM annually. ROI achieved within nine months, engineered internally for 50% less than external cost.
- ☑ Engineered a unique product delivery system between two production assets that nearly doubled throughput and increased annual revenue by \$8MM.
- ☑ Spearheaded the companies' first plant-wide overall equipment effectiveness (OEE) system. Strategically deployed automated data collection that led to a 10% OEE increase and \$1.5MM labor savings.
- ☑ Selected and introduced the companies' first computerized maintenance management system (CMMS). Rolled-out preventive maintenance (PM) schedules, work order assignments, asset tracking, and part inventory. This initiative contributed to generating an additional \$20MM in revenue over the previous year without additional capital investment.
- ☑ Led the team in documenting standard operating procedures (SOPs), good engineering practices, and engineering standards that referenced state and federal code to ensure compliance and consistency.
- ☑ Created an effective onboarding and training program for standardization and professional growth.
- ☑ Offered internships to local undergraduates and facilitated senior design projects to provide valuable industry experience and foster partnerships throughout the community.

Lead Systems Engineer

JTI Electric 📍 Fresno, CA 📅 08/2014 – 02/2015

- ☑ Led teams of engineers, technicians, and electricians in providing turnkey automated manufacturing solutions to major players in the food and beverage industry.
- ☑ Led the engineering team through the design and implementation of a manufacturing execution system (MES) that interfaced with an Oracle enterprise resource planning (ERP) system and Wonderware SCADA system for California's largest dairy producer.

Electrical and Controls Engineer

Netafim, USA 📍 Fresno, CA 📅 07/2011 – 08/2014

- ☑ Integral member of the Lean Steering Team responsible for crafting the value stream map. Received an in-depth lean manufacturing education and applied lean principles to group similar products into "product families" using qualitative analysis—this led to a 10% increase in production line utilization.
- ☑ Selected as the US manufacturing representative to participate in a global engineering initiative that identified and engineered solutions for production line bottlenecks—increased throughput by 40%.

EDUCATION

- 🎓 **Master of Information and Data Science** University of California, Berkeley (2021)
- 🎓 **Bachelor of Science Electrical Engineering** California State University, Fresno (2010)
- 📚 Machine Learning, Big Data Analytics, Statistics, and Modeling and Forecasting
- 📚 Control Systems, Programmable Logic Controllers, and Robotics

CERTIFICATIONS & AWARDS

- 📄 Project Management Professional (PMP) | PMI Credential ID 2632367 (2019 – 2022)
- 📄 Leadership Academy of Excellence
- 📄 Operational Excellence Lean Manufacturing
- 📄 Thinmanager, Ignition, FANUC, Rockwell Automation
- 🏆 Best Department Award (2019) | Tasteful Selections
- 🏆 Technology Innovation Award (2019, 2017) | Tasteful Selections
- 🏆 Continuous Improvement Award (2018) | Tasteful Selection

AFFILIATIONS

- 👥 Program Ambassador | UC Berkeley MIDS (2020 – Present)
- 👥 Adjunct Faculty | Bakersfield College B.S. in Industrial Automation (2019 – 2020)
- 👥 Central California Member | International Society of Automation (2018 - Present)
- 👥 Central Valley Member | Project Management Institute (2018 – Present)
- 👥 Advisory Board Member | Bakersfield College B.S. in Industrial Automation (2016 - Present)