

DANIEL GUTIERREZ

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DATA SCIENTIST | AI/ML PRODUCT MANAGER

Dedicated and results-driven professional with extensive experience in data science and product management, specializing in the development and deployment of AI/ML applications & AI chatbots. Adept at turning complex data insights into effective product strategies, I am committed to driving innovation and delivering impactful results in a dynamic organization.

KEY STRENGTHS

Product Management • Leadership • Probability & Statistics • Simulations • Minitab • JMP • SAS • Six Sigma Green Belt • Design of Experiments • SAP • Python • Machine Learning • MLOps • FastAPI • MES • Streamlit • SQL • Tableau • Flask • Back-End Dev • LLMs • LangChain • AI Chatbots • Natural Language Processing • Generative AI

PROFESSIONAL EXPERIENCE

INTRARATIO, SAN DIEGO, CA

2020 TO PRESENT

Smart Manufacturing Realized. AI/ML and Advanced Analytics for Industry 4.0

AI/ML/DATA PRODUCT MANAGER & DATA SCIENTIST

APR. 2021 TO PRESENT

- Managed the entire lifecycle of new AI/ML products and features, including our flagship AI platform AiCard, from conceptualization and ideation to successful customer deployment
- Successfully developed and launched an Isolation Forest Application for outlier detection in factory data, overseeing its transition into production.
- Leveraged Python, MySQL, Flask, Redis, MLFlow and other MLOps tools to engineer and deliver comprehensive applications to meet product and business needs.
- Orchestrated the end-to-end management (DEVops/MLOps) of project development, transforming initial ideas into fully realized production solutions.
- Delivered engaging AI/ML talks at online conferences, showcasing project insights and outcomes.
- Collaborated closely with Marketing teams and customers to align new product developments with market demands and customer expectations
- Worked with complex data sources and interactions from world leading semiconductor fabs, PCB assembly, medical device manufacturing, and military customers

DATA SCIENTIST

FEB. 2020 TO APR. 2021

- Collaborated directly with customers to develop sophisticated Outlier Detection and Predictive Maintenance applications, encompassing all factory data points for enhanced operational efficiency, used tools like Flask and Streamlit to generate proof of concept designs
- Engineered robust data pipelines for efficient extraction and mapping of machine data to database schemas, ensuring data integrity and consistency
- Designed and implemented advanced data schemas, data marts, and visualization dashboards; significantly enhancing data analytics capabilities and providing deeper, actionable insights

SEMI FOUNDATION, MILPITAS, CA

Supporting economic opportunity for workers and the growth of the microelectronics industry

SEMICONDUCTOR EMPLOYER ADVISORY BOARD MEMBER

MAR. 2024 TO PRESENT

- Provide expert-level strategic guidance on the latest advancements in AI, Machine Learning, and Data technologies, aimed at shaping the future workforce in the Semiconductor industry
- Integrate an AI/ML curriculum tailored for K-12 and university students to ignite their interest and drive sustained growth within the Semiconductor industry

TANGIBLE AI, SAN DIEGO, CA

Intelligent Solutions for a Better World

AI CHATBOT ENGINEER

MAR. 2023 TO MAR. 2024

- Participated in a unique AI Chatbot Development Internship designed for working professionals, focusing on cutting-edge natural language processing technologies.
- Lead the development of a Conversational AI Bot aimed at matching users with suitable Social Activism Causes, leveraging advanced AI algorithms and Conversational Design.
- Received direct mentorship in Natural Language Processing (NLP) and Conversational AI design from the CEO, enhancing expertise in AI-driven communication solutions.
- Skills: Natural Language Processing (NLP) · LLMs · LangChain · MLOps · Django REST Framework · RASA

TIGERS TAPROOM, LLC, OAKLAND, CA

JUN. 2017 TO PRESENT

Craft Beer Taproom and Bottle Shop located in Oakland's Jack London Square District.

Co-FOUNDER

- Short break from the engineering industry to pursue an entrepreneurial dream. Raised funding, developed business plan, designed bar and branding, worked with city and the community, managed bar for 2.5 years.

TACTUS TECHNOLOGY, FREMONT, CA

Material science innovations for tactile interfaces. Tactile rising buttons on iPads and flexible displays.

MANAGER, PROCESS ENGINEERING

Nov. 2016 to Aug. 2018

Lead a team of amazing Engineers, Technicians and Operators to develop processes, quality standards and prototypes of our first shipped product: TrueWrite Film

- Managed Process Development, Quality, and Pilot-Line Production teams
- Lead root cause investigations between internal team and contract manufacturer
- Developed multi-day Design of Experiment trial plans to reduce defects and increase yield
- Managed an 8 person team responsible for inspecting, packaging and shipping the company's first product

SENIOR PROCESS ENGINEER

Aug. 2016 to Nov. 2016

- Developed new Processes for TrueWrite Film to improve mechanical and optical performance
- Managed the Pilot Production Line for the manufacturing of prototypes, customer samples and test coupons
- Generated Process Validation testing on newly developed products; analyzed response data to validate processes and quality of materials
- Designed and executed multiple Design of Experiments (DOE) to improve multiple advanced processes
- Developed internal Statistical Process Control (SPC) data collection systems

PROCESS ENGINEER

Oct. 2014 to Jul. 2016

- Lead Manufacturing Execution System(MES) administrator for the entire company
- Created all the process and data mapping into our MES system as the Lead MES software developer
- Developed and trained engineers on how to collect and extract MES data via multiple methods
- Worked closely with our MES provider on new feature development, issues (bugs) and upgrading the system
- Programmed Raspberry PIs and Siemens PLCs to automate data collection from pilot line processes
- Worked in cross functional teams for product development, reliability and UX studies, and root cause analysis

BOSTON SCIENTIFIC, FREMONT, CA

SEPT. 2013 to OCT. 2014

MANUFACTURING ENGINEER II, SUB-ASSEMBLY LEAD

- Team Leader of 3 manufacturing engineers and 1 technician.
- Maintained the Coronary Imaging Catheter manufacturing line while maintaining high yield and quality levels
- Performed Validation and Verification on new equipment and processes
- Performed Design of Experiments to investigate failure mode and root cause of non-conforming product
- Conducted statistical analysis [anova, t-test, control charts] testing for root cause and scrap investigations
- Analyzed scrap data trends using SAP Business Warehouse Software and reported results on a weekly basis

GORILLA CIRCUITS, SAN JOSE, CA

2008 to Aug 2013

PROCESS ENGINEER

JULY 2011 to Aug 2013

Applied advanced data analytics and modeling to optimize PCB manufacturing process quality using Six Sigma and Lean principles. Worked here after high school and through university studies.

PUBLICATIONS

IEEE • Feb 1, 2024

"The Data Revolution Within Electronics Manufacturing: Digitization + AI/ML"

EDUCATION & TRAINING

SAN JOSE STATE UNIVERSITY

M.S. Industrial and Systems Engineering, 2014

Statistics • Simulations • Quality Assurance and Reliability • Operations Research • DOE • Data Analytics

B.S. Electrical Engineering, 2011

Network Analysis • Linear Systems • Control Systems • Digital Signal Processing • Probability and Statistics

Global Technology Initiative Scholar, 2010

Two-week all expenses paid tour of India, exploring and studying the global perspective in engineering

SIX SIGMA GREEN BELT

Acquired through San Jose State University, May 2013

Microsoft Professional Program in Data Science

Microsoft EDX Professional Program, November 2019, License#5d490195-77eb-4afb-bc77-b2a29bdb0118