

Education

MS, Manufacturing Systems Engineering — California State University, Northridge Expected May 2027

- Selected Coursework: Additive Manufacturing, Advanced Topics in CAD (Generative Design), Robotics Systems

BS, Manufacturing Engineering — California State Polytechnic University, Pomona May 2023

- Selected Coursework: Design for Manufacturing, Numerical Control and CAM, Lean Implementation, Production Planning and Control, Data Analysis, Casting, Forming, Joining, Metal Removal
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Research Experience & Projects

Graduate Research Assistant — Autonomy Research Center for STEAHM February 2026 – Present

- Developed annotation standards for multi-modal machine learning training dataset of over 5,000 engineering drawings, enabling feature extraction and automated interpretation of manufacturing documentation

Undergraduate Senior Design Project — Optimizing Product Flow for Scrap Reduction at PMD Inc.

- Proposed barcode system and fixture storage solutions to increase tool traceability and reduce setup time
 - Designed custom material handling crates to reduce scrap caused by packaging and transportation damage
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Work Experience

Process Engineer — Sterile Processing Services of America December 2023 – December 2024

- Led implementation of digital production tracking system, serving as technical SME for software/hardware troubleshooting and system configuration
- Performed equipment validation, including installation and operational qualifications, conducting risk evaluations with FMEA and writing risk assessments for critical systems
- Conducted root cause investigation of recurring steam sterilizer failures, performing extensive edge case testing and regression analysis to identify contributing factors, resulting in 85% reduction in targeted nonconformance
- Supported ISO 13485 certification preparation by collaborating with quality department to develop comprehensive documentation and refine quality management systems
- Developed new SOPs and WIs and extensively revised existing controlled documents
- Participated in internal auditing, component and material evaluation, and CAPA implementation
- Managed technical implementations during facility renovation, supporting layout design for production areas
- Provided technical support for operational systems, troubleshooting production software and hardware
- Compiled data analytics reports on productivity, process compliance, and operational volume
- Exhibited cross-functional adaptability, supporting diverse projects beyond standard engineering responsibilities

Product Manager — Tesloop August 2017 – July 2020

- Led the product vision and roadmap for both user-facing mobile and web apps and data ingestion/analytics services
 - Managed a remote development team with an agile process to both add new features and maintain existing software
 - Wrote and iterated on product specifications, wireframes, workflow diagrams, and user stories
 - Collaborated with cross-functional teams, including business development, marketing, operations, design, engineering, and external parties
 - Performed code QA, regression tests, and wrote bug reports
 - Scheduled and organized timeline of inter-city rideshares by incorporating booking data, driver-reported downtime, seasonal traffic patterns, and user research
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Technical Skills

Process & Quality Engineering: Lean Six Sigma, Equipment Validation, Risk Assessment & FMEA, Root Cause Analysis, Quality Management Systems, ISO 13485/9001, cGMP, Change Controls, Data Analysis, Technical Writing

Manufacturing Technologies: CAD/CAM, Additive Manufacturing and Rapid Prototyping, CNC Programming, GD&T, Casting and Molding, Generative Design, Statistical Process Control, Metrology, Industrial Control Systems

Project Management: Strategic Planning, Process Implementation and Improvement, Cross-functional Collaboration, Resource Coordination, Agile Methodology, Customer Engagement

Software Proficiency: SolidWorks, Mastercam, Fusion, AutoCAD, Microsoft 365 Suite, Google Docs Editors Suite