

Miranda Ma

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PROFESSIONAL SUMMARY

Reliability Engineer with 7+ years of experience supporting new product development, product quality, and post-launch reliability within regulated manufacturing environments. Expertise in APQP, DFMEA, PFMEA, CAPA, root cause analysis (RCA), and verification and validation testing (IQ/OQ/PQ). Proven ability to reduce defects, improve process capability, and partner cross-functionally to deliver high-quality products.

EXPERIENCE

Edgewell Personal Care – Milford, CT

Reliability Engineer | Apr 2025 – Present

Associate Reliability Engineer | Sep 2021 – May 2025

- Lead APQP activities across new product development, including DFMEA, PFMEA, risk assessment, and validation planning, ensuring quality and regulatory requirements are met pre- and post-launch.
- Execute verification and validation (IQ/OQ/PQ) using DOE and statistical analysis in Minitab, to support data-driven design and manufacturing decisions.
- Analyze field failures, customer complaints, and quality non-conformances, performing root cause analysis (RCA), and supporting CAPA initiatives through closure.
- Collaborate cross-functionally with Product Design, Quality, and Operations to resolve issues, improve process capability, and reduce manufacturing variation.

Three Wheels Tech LLC – New York, NY

Chief Mechanical Design Engineer | Feb 2021 - Present

- Designed a patented physical therapy device from concept to MVP.
- Conducted design reviews, CAD simulations, and iterative prototyping for structural optimization.

California Closets – Hawthorne, NY

Project Engineer | Sep 2018 – Aug 2021

- Reviewed design drawings for accuracy to ensure compliance with engineering and safety standards.
- Prepared detailed manufacturing documentation and cutsheets to support effective process control and on-time production in a fast-paced environment.

EDUCATION

M.S. Mechanical Engineering, Focus in Advanced Manufacturing – Johns Hopkins University (May 2025)

Graduate Certificate, Design & Manufacturing – University of Massachusetts (Nov 2022)

B.S. Mechanical Engineering, Minor in Disability Studies – New York University (May 2018)

CERTIFICATIONS

Lean Six Sigma – Green Belt

ISO 9001:2015 Internal Auditor

TECHNICAL SKILLS

Reliability & Quality: APQP, XFMEA, CAPA, RCA, DOE, GD&T, DFM, GMP, IQ/OQ/PQ, Minitab

CAD & Design: SolidWorks 2023, Creo Parametric, Shapr3d, Fusion 360, Rhino 3D, AutoCAD

Simulation & Analysis: ANSYS, MATLAB, Simulink, SolidWorks Simulation

Manufacturing & Prototyping: CNC Machining, 3D Printing, Soldering