

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 in regulated manufacturing environments. Skilled in APQP, DFMEA, PFMEA, CAPA, root cause analysis, verification and validation testing, and statistical analysis. Known for partnering cross-functionally to identify reliability risks, improve process capability, and deliver high-quality products from development through launch.

EXPERIENCE

Edgewell Personal Care – Milford, CT

Reliability Engineer | Apr 2025 – Present

Associate Reliability Engineer | Sep 2021 – Apr 2025

- Lead APQP activities for new product development, including DFMEA, PFMEA, risk assessment, validation planning, and launch readiness reviews to ensure quality and regulatory requirements are met.
- Execute verification and validation testing, including IQ/OQ/PQ protocols, DOE, and Minitab-based statistical analysis to support data-driven product and manufacturing decisions.
- Investigate field failures, customer complaints, and quality nonconformances by performing root cause analysis and supporting CAPA implementation through effective closure.
- Collaborate with Product Design, Quality, Operations, and Manufacturing teams to resolve reliability issues, improve process capability, and reduce variation across product and process lifecycle stages.

California Closets – Hawthorne, NY

Project Engineer | Sep 2018 – Aug 2021

- Reviewed engineering drawings and design documentation for accuracy, manufacturability, and compliance with internal engineering and safety standards.
- Prepared manufacturing documentation, production cut sheets, and installation-ready deliverables to support process control, production accuracy, and on-time project execution.

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, DFMEA, PFMEA, 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