

Amina Patel

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SUMMARY

Detail-oriented Reliability Engineer with over 5 years of experience in the manufacturing industry. Proven track record of enhancing system reliability and maintaining operational efficiency through innovative engineering solutions.

EXPERIENCE

Reliability Engineer

Jan 2022 - Present

Tech Solutions Inc., San Francisco, CA

- Increased equipment uptime by 20% through the implementation of predictive maintenance strategies, resulting in annual savings of \$150,000.
- Developed and executed testing protocols that reduced product failure rates by 35%, enhancing customer satisfaction scores.
- Utilized Six Sigma methodologies to streamline processes, reducing operational costs by 15%.

Junior Reliability Engineer

Jun 2018 - Dec 2021

Innovative Manufacturing Co., Los Angeles, CA

- Assisted in the design and testing of reliability programs, leading to a 25% reduction in warranty claims over 3 years.
- Conducted failure mode and effects analysis (FMEA) that identified critical failure points and drove 40% improvements in system design.
- Collaborated with cross-functional teams to enhance product development timelines, achieving a 10% faster market launch.

Reliability Intern

May 2017 - Aug 2017

Global Tech Solutions, Irvine, CA

- Supported reliability testing of electronic components, contributing to a project that improved reliability metrics by 15%.
- Assisted in data analysis using MATLAB, providing insights that informed design modifications and increased product longevity.

EDUCATION

Bachelor of Science in Mechanical Engineering

May 2018

University of California, Berkeley, Berkeley, CA • GPA: 3.7

SKILLS

Technical Skills: Reliability Engineering, Root Cause Analysis, FMEA, Statistical Analysis

Tools & Frameworks: MATLAB, Minitab, SolidWorks