Mechanical Engineer

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Summary

Mechanical engineer with six years in product design and manufacturing, proficient in SolidWorks and ANSYS, focused on design-for-manufacturability, tolerance analysis, and validation testing that cuts cost and improves yield on production hardware.

Experience

Mechanical Design Engineer, Precision Mechanical Systems 2021 – Present
City, ST

- Redesigned a pump housing in SolidWorks that cut machined cost 31% while holding a 0.05mm flatness tolerance.
- Ran FEA in ANSYS on a bracket assembly, reducing weight 22% while keeping a 2.5x safety factor.
- Led a design-for-manufacturability review that lifted first-pass yield from 84% to 97% on a 40K-unit run.
- Created GD&T-compliant drawings for 120 parts, cutting supplier quoting questions roughly in half.
- Cut prototype iteration cycles from five to two by validating designs with simulation before machining.
- Specified materials and tolerances that lowered warranty returns on a sealing component 38%.
- Coordinated with suppliers on a tooling change that reduced cycle time per part from 90 to 52 seconds.

Mechanical Engineer, Cornerstone Manufacturing Co. 2018 – 2021
City, ST

- Designed fixtures and tooling that raised assembly-line throughput 18% on a high-volume product.
- Performed tolerance-stack analysis on a 14-part assembly, eliminating a recurring interference fit issue.
- Built and tested 25 prototypes, documenting results that informed a successful production launch.
- Reduced scrap rate on a stamped component from 6.2% to 1.4% by adjusting die clearances.
- Authored test plans and validation reports supporting a product's compliance sign-off.
- Standardized a CAD part-library that cut new-design modeling time about 30% across the team.

Education

Bachelor of Science in Mechanical Engineering 2014 – 2018
State University — City, ST

Certifications & Licenses

Engineer in Training (EIT) · Certified SolidWorks Associate (CSWA)

Skills

SolidWorks · ANSYS (FEA) · GD&T · Design for manufacturability · Tolerance-stack analysis · Materials selection · Prototyping and testing · CAD drawing and BOM · Manufacturing processes · Root-cause analysis · Supplier collaboration · Validation reporting