1. Reviewed design requirements and identified appropriate materials to use in development of solutions.
2. Assisted in development of [Type] testing systems, including automated [Type] equipment.
3. Prepared, checked and coordinated documentation to support [Type] and [Type] component design and application.
4. Performed on-site field surveys and wrote technical narratives to document processes and design changes.
5. Estimated quantities and cost of materials, equipment and labor to determine project feasibility.
6. Fabricated tools needed to construct [Type], [Type] and [Type] components.
7. Coordinated technical requirements, scheduling and solution development for engineering design and test issues.
8. Recommended and selected new and replacement test equipment to improve research and testing capabilities.
9. Performed analysis on [Type] technical designs and prototypes in development stage.
10. Conducted research to test and analyze feasibility, design, operation and performance of [Type] equipment, components and systems.
11. Worked with product planners and industrial designers to conceptualize and refine product concepts.
12. Consulted with marketing department about product upgrades and failures in service and discussed methods for remediation.
13. Supported [Type] engineering design through analysis and simulation of prototypes and [Type] computer models.
14. Performed tolerance analysis to support success in high-volume [Type] product manufacturing.
15. Provided technical engineering support and project management for design, engineering and development of [Type] products.
16. Communicated with customers by phone, email and in person to meet design requirements for [Type] products.
17. Integrated environment, health and safety regulations into process design and work practices to alleviate risk.
18. Created CAD models and drawings for [Type] and [Type] designs.
19. Developed and tested models of alternate designs and processing methods to assess feasibility, operating condition effects, possible new applications and necessity of modification.
20. Tested [Type] products extensively to measure against design intent.
21. Created Bills of Materials (BOM) and certifications.
22. Created parts for various fabrication methods, including machining, sheet metal fabrication and injection molding.
23. Oversaw product development, design and releases for production of [Type] and [Type] products.
24. Built functional prototypes of products, components and mechanisms using [Software] to meet design specifications.
25. Developed [Type] product prototype components, assemblies and tooling.
26. Designed and analyzed [Type] mechanical systems and mechanisms.
27. Documented products and processes using SolidWorks, [Software] and [Software] to document release notes and designs.