1. Supported [Type] engineering design through analysis and simulation of prototypes and [Type] computer models.
2. Performed on-site field surveys and wrote technical narratives to document processes and design changes.
3. Estimated quantities and cost of materials, equipment and labor to determine project feasibility.
4. Worked with product planners and industrial designers to conceptualize and refine product concepts.
5. Reviewed design requirements and identified appropriate materials to use in development of solutions.
6. Recommended and selected new and replacement test equipment to improve research and testing capabilities.
7. Coordinated technical requirements, scheduling and solution development for engineering design and test issues.
8. Fabricated tools needed to construct [Type], [Type] and [Type] components.
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. Designed parts using injection molding techniques and assisted with design of molds.
12. Tested [Type] products extensively to measure against design intent.
13. Prepared, checked and coordinated documentation to support [Type] and [Type] component design and application.
14. Communicated with customers by phone, email and in person to meet design requirements for [Type] products.
15. Assisted in development of [Type] testing systems, including automated [Type] equipment.
16. Developed concept layout and design of [Type] product from specifications using 3D CAD software.
17. Analyzed [Type] mechanical designs and prototypes in development life cycle.
18. Created CAD drawings using [Software] to convey manufacturing and production configurations.
19. Developed [Type] product prototype components, assemblies and tooling.
20. Performed tolerance analysis to support success in high-volume [Type] product manufacturing.