1. Performed on-site field surveys and wrote technical narratives to document processes and design changes.
2. Conducted research to test and analyze feasibility, design, operation and performance of [Type] equipment, components and systems.
3. Supported [Type] engineering design through analysis and simulation of prototypes and [Type] computer models.
4. Fabricated tools needed to construct [Type], [Type] and [Type] components.
5. Estimated quantities and cost of materials, equipment and labor to determine project feasibility.
6. Performed analysis on [Type] technical designs and prototypes in development stage.
7. Reviewed design requirements and identified appropriate materials to use in development of solutions.
8. Coordinated technical requirements, scheduling and solution development for engineering design and test issues.
9. Prepared, checked and coordinated documentation to support [Type] and [Type] component design and application.
10. Performed thermal, electromagnetic, dynamic and structural engineering analyses on [Type] projects.
11. Worked with product planners and industrial designers to conceptualize and refine product concepts.
12. Assisted in development of [Type] testing systems, including automated [Type] equipment.
13. Created tools required for injection molded plastic, compression molded elastomers and diecast metal parts.
14. Recommended and selected new and replacement test equipment to improve research and testing capabilities.
15. Created parts for various fabrication methods, including machining, sheet metal fabrication and injection molding.
16. Planned and evaluated results of [Type] analysis, modeling and experiments.
17. Developed, tested and assessed alternative design models and processing methods.
18. Oversaw product development, design and releases for production of [Type] and [Type] products.
19. Designed and analyzed [Type] mechanical systems and mechanisms.
20. Performed tolerance analysis to support success in high-volume [Type] product manufacturing.
21. Processed field and performance assessment data using [Software].
22. Interacted with project leaders and stakeholders to define requirements and generate and maintain design development documents.
23. Created CAD drawings using [Software] to convey manufacturing and production configurations.