1. Verified construction documentation conformed to quality assurance standards and client requirements.
2. Completed accurate engineering calculations for weights, loads and other metrics using both manual and digital methods.
3. Inspected and evaluated existing buildings for structural deficiencies and code violations.
4. Published technical reports on structural conditions, including repair cost estimates and necessary corrections required to meet local building codes.
5. Created designs for temporary structures such as shores, vertical transportation solutions, employee access solutions and more.
6. Traveled to build sites to collaborate with construction personnel and to confirm compliance with design parameters and regulations.
7. Prepared presentations outlining proposed designs to customers and incorporated feedback into final plans.
8. Performed quality inspections of all plans, documents, and calculations as well as in-progress and final bridge construction.
9. Successfully completed 16-hour Principles and Practices of Engineering (PE) exam, receiving certification in [State].
10. Monitored implementation of necessary safety and redundancy principals in design and construction of new structures.
11. Participated in design reviews within team-based structural planning committees.
12. Provided technical advice to industrial personnel on design, construction and structural repairs.
13. Improved traffic flow and reduced congestion through innovative and solution-oriented bridge system design.
14. Helped prepare project budgets, maintain schedules and put together final documentation.
15. Increased safety rating of high-level project [Number]% by identifying and resolving severe structural issues.
16. Designed structures for construction in various building mediums, including [Type] and [Type].
17. Drafted structural plans using various computer aided design solutions, including [Software] and [Software].
18. Oversaw construction of [Number] new buildings and bridges.
19. Administered contracts and managed projects.
20. Assisted drafters in developing structural design of products using drafting tools or computer-assisted design (CAD) or drafting equipment and software.