1. Interacted with architects and clients to obtain critical design information necessary to complete projects within intended time frames.
2. Analyzed building codes, by-laws and space and site requirements to determine effect on architectural designs.
3. Used 3D and 2D CAD tools to design, develop and engineer high-quality models.
4. Identified potential operational issues to redesign products and improve functionality.
5. Liaised with architects, engineers and designers to understand design requirements and provided technical advice to manufacturing and construction technicians.
6. Collected construction site reports, analyzed building codes and made weight, volume and stress calculations to determine materials needed for projects.
7. Organized project goals by identifying expectations and assigning design tasks to [Number] team members.
8. Performed [Type] and [Type] mathematical formulas to generate engineering models and calculations for system performance.
9. Designed high quality, robust and cost-effective CAD product models by preparing routine layouts, detailed drawings, assembly sketches and diagrams.
10. Performed final quality assurance assessment of equipment to prepare for shipment.
11. Tested selected products at specified stages in production process for performance characteristics or adherence to specifications.
12. Developed automation tools to improve efficiency, eliminate waste and free up labor hours for other needs.
13. Reduced manual processes by designing library features to increase production efficiency, improving efficiency [Number]%.
14. Generated, submitted and presented reports every [Timeframe] to enhance [Area of expertise] quality standards.
15. Used [Software] and [Software] to design floor plans, elevations and realistic renderings.
16. Selected material quantities or processing methods needed to achieve efficient production.
17. Investigated processes to develop maps and determine optimal improvement approaches.
18. Managed quality assurance initiatives, including [Task], [Task] and [Task].
19. Collected and reviewed engineering data to assess needs and recommend solutions.
20. Evaluated employee performance and equipment organization to assess and improve plant operations.
21. Scheduled preventive and predictive maintenance actions based on failure analysis.
22. Read worker logs, product processing sheets or specification sheets to verify records adhered to quality assurance specifications.