1. Analyzed and verified all energy savings calculations to promote environmental sustainability and energy conservation in order to meet aggressive project LEED requirements.
2. Completed mechanical designs for HVAC, air control, fire protection and elevators while providing SME input to client and design teams.
3. Prepared sheet metal fabrication drawings, modifications and commercial specification drawings using Revit and AutoCAD.
4. Devised overall strategy for documentation and identified design sets planned for each stage of work including as-built designs and final building information models (BIM).
5. Designed utilities and HVAC systems for high technology facilities, including cleanrooms, general manufacturing and process and institutional facilities.
6. Performed quality mechanical drawing checks to confirm safe, compliant and cost-effective design criteria.
7. Secured capital equipment for facility by developing quotations and purchase requisitions.
8. Applied technical troubleshooting ability to create quality HVAC and air control solutions.
9. Conferred with facility engineers to implement operating procedures, resolve system problems and provide technical information.
10. Monitored [Type] processes to identify areas in need of improvement and implement plans to achieve [Result].
11. Supervised preparation of technical drawings by architectural technicians, CAD technicians and drafters.
12. Collaborated with [Type] teams to develop and implement product improvements to enhance performance.
13. Assisted drafters with detailed machinery plans using drafting tools, computer-assisted design and drafting equipment and software.
14. Designed and oversaw installation of conveyors, overhead cranes and robotic systems.
15. Developed and coordinated effective predictive, preventive and corrective maintenance approaches.
16. Supported [Type] engineering design through analysis and simulation of prototypes and [Type] computer models.
17. Identified mechanical problems and determined best solutions for correction.
18. Documented products and processes using SolidWorks, [Software] and [Software] to document release notes and designs.
19. Provided mechanical design analysis and prototype development for servos and electro-mechanical components of [Type] systems.
20. Liaised between [Type] facility and [Type] department, facilitating communications and keeping appropriate parties updated on project developments.