1. 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).
2. Analyzed and verified all energy savings calculations to promote environmental sustainability and energy conservation in order to meet aggressive project LEED requirements.
3. Completed mechanical designs for HVAC, air control, fire protection and elevators while providing SME input to client and design teams.
4. Applied technical troubleshooting ability to create quality HVAC and air control solutions.
5. Designed utilities and HVAC systems for high technology facilities, including cleanrooms, general manufacturing and process and institutional facilities.
6. Designed and built process tooling including insert molds, arbor press tooling, soldering and welding.
7. Collaborated with [Type] teams to develop and implement product improvements to enhance performance.
8. Prepared sheet metal fabrication drawings, modifications and commercial specification drawings using Revit and AutoCAD.
9. Performed quality mechanical drawing checks to confirm safe, compliant and cost-effective design criteria.
10. Attended project planning meetings to coordinate [Type] system designs with structural and architecture teams to mitigate design conflicts and coordinate delivery timelines.
11. Assisted in preparation of production cost quotations by aiding with estimates of equipment, material and labor costs.
12. Designed and oversaw installation of conveyors, overhead cranes and robotic systems.
13. Contributed to [Type] project by [Action] and [Action] which increased company revenue by [Number]% and improved [Result].
14. Applied engineering principles to develop and operate electrical, mechanical and data processing systems.
15. Provided mechanical design analysis and prototype development for servos and electro-mechanical components of [Type] systems.
16. Provided technical guidance, peer review and mentorship to junior engineers engaged in building system designs.
17. Monitored [Type] processes to identify areas in need of improvement and implement plans to achieve [Result].
18. Liaised between [Type] facility and [Type] department, facilitating communications and keeping appropriate parties updated on project developments.
19. Reviewed project goals and objectives on monthly basis with project manager and design team.
20. Analyzed [Type] mechanical designs and prototypes in development life cycle.