1. Monitored installation and operations to consistently meet rigorous customer requirements.
2. Created electrical schematics using AutoCAD Electrical Toolset.
3. Created, aligned and optimized electrical instrumentation and testing equipment.
4. Mentored junior engineers and new hires to better improve competency and efficiency of all staff.
5. Determined most effective approaches to new projects by reading and analyzing blueprints, drawings and sketches.
6. Spearheaded tendering and negotiation process for critical products and services to reduce costs and allow early contractor involvement.
7. Implemented cutting-edge processes and safety practices to reduce electrical construction hazards.
8. Proposed electrical product and system modifications to improve quality and efficiency.
9. Evaluated [Type] electrical systems and components by designing and conducting research programs.
10. Troubleshot electrical equipment problems such as electro-valves and sensors.
11. Identified specific cables, connectors, fuses, circuit breakers and other electrical devices required for installation of monitoring systems and weapons detection systems.
12. Conducted field surveys and studied maps and diagrams to identify and correct power system problems, including [Type] and [Type] problems.
13. Implemented and approved design control procedures for electrical development in accordance with regulatory guidelines.
14. Evaluated installed electrical equipment and systems to isolate faults and implement corrective actions.
15. Conducted projects and performance presentations to clients and company executives.
16. Performed in-depth electrical acceptance testing of completed hardware, including continuity and high-potential isolation testing.
17. Inspected completed installations to observe operations and verify conformance to design and equipment specifications.
18. Confirmed system and component capabilities by designing testing methods and testing properties.
19. Demonstrated role of neural networks in self-healing power distribution grids through thesis research.
20. Validated small product and subsystem performance by performing analysis, simulation and laboratory testing.