Stephen Smith

SENIOR ELECTRICAL ENGINEER

Richland, WA
-Email me on Indeed: http://www.indeed.com/r/Stephen-Smith/440822d9a3f6da91

Objective - Electrical engineering lead position delivering cost effective and code compliant designs.

- Electrical design team supervisor
- Multi-discipline design task management
- National Electrical Code review and compliance
- Industrial plant electrical distribution and control system design
- Specification development, cost estimates and value engineering
- Design and procurement of switchgear, MCC and UPS systems, PLCs, variable frequency drives, control panels, distribution system equipment and emergency generators.

Willing to relocate: Anywhere

Work Experience

Supervisory Electrical Engineer

WASHINGTON RIVER PROTECTION SOLUTIONS - Richland, WA
October 2017 to Present

Deliver power and controls system designs for DOE Hanford Tank Farm nuclear waste management projects with rigorous QA analysis:

1. Electrical group and cross-discipline lead for multiple nuclear cleanup projects.
2. Develop and review industrial electrical engineering documents for Tank Farm installations with cross-discipline coordination.
3. Design UPS systems, heat trace systems, power distribution and controls equipment.
4. Provide electrical design scoping services and engineering record documents with personnel hour estimates.
5. Electrical engineering staff hiring, performance review and personnel actions.

Electrical Engineer

ATKINS NUCLEAR - Richland, WA
June 2010 to October 2017

Deliver power and controls engineering for nuclear waste treatment facilities, from concept development, design, and procurement through equipment installation. Ensure internal and outsourced electrical designs meet U.S. and international standards:

1. Develop power one-lines, elementary wiring and loop diagrams for UL 508A Listed industrial control panels, PLCs, MCCs, UPS systems, grounding and lighting systems.
2. Interface with equipment suppliers and application engineers to leverage expertise for specifications, build-to-print drawings and procurement actions.
3. Inspect electrical installations for NFPA 70 and 70E code compliance; resolve inspection comments with AHJ.
4. Develop corporate program of electrical safe work procedures per OSHA and national industry standards.

Electrical Project Engineer

INTEL CORPORATION - Portland, OR
December 2000 to March 2010

Engineering and Construction Team Lead: Manage consultant and CM-at-risk to integrate construction projects during continuous semi-conductor production schedules:
1. Commission distribution equipment for substations and paralleling switchgear (medium voltage 13.8kV utility, 480V, 208V; 750kVA to 3MVA) for data center and factory operations.
2. Cognizant engineer oversight for drawing, cost estimate and specifications from concept feasibility to as-built record documents.
3. Design installations of redundant UPS units, generators and transfer switches rated up to 4MVA for data centers and factories.
4. Construction, integration and NEC compliance: Drive team collaboration for electrical commissioning with project manager, inspection and code officials, equipment suppliers, factory owners, technicians and contractors.

Lead Power Engineer

NEWPORT NEWS SHIPBUILDING - Newport News, VA
November 1997 to November 2000

Medium Voltage Distribution Lead: Coordinate team of 10 design staff to deliver presentations, design specifications, diagrams and engineering proposals to Navy procurement officers for next generation nuclear aircraft carrier electrical systems:
1. Design Lead for next-generation CVN class medium voltage network and physical layout, including project schedule and budget.
2. Replace legacy aircraft carrier 5kV radial distribution with 13.8kV redundant zonal network.
3. Research and modernize Navy shipbuilding technology.

Lieutenant Civil Engineer Corps

U.S. Navy - Duty, VA
November 1987 to November 1997

1. Virginia: Supervise Navy base facility maintenance and disaster preparedness operations. Officer responsible for 20 Seabee personnel (construction battalion) and Navy housing program.
2. Maine: Transportation, snow removal and equipment maintenance crew; write service contract specifications and manage contractor quality; supervise 20 Seabees responsible for presidential residence security.
3. Philippines: Develop and implement field changes with contractor negotiations; perform inspections, testing and commissioning of large capital military construction (MILCON) programs.
4. Philippines: Install power generation plant expansion, water storage tanks and distribution utilities, barracks, avionics and maintenance shops.
5. Bahrain: Contracting Officer for Operation Desert Shield: (1990) Government contracting officer signature authority to develop, bid and award small purchase contracts to Persian Gulf companies.

Education

Master of Science in Electrical Engineering

Georgia Institute of Technology - Atlanta, GA
September 1993 to August 1994

Bachelor of Science in Electrical Engineering
Portland State University - Portland, OR
September 1983 to May 1987

Skills

- NEC
- MATLAB
- AutoCAD
- Schematics
- Programmable logic controllers
- Quality assurance
- Research
- Presentation skills
- System design
- Program development
- Construction management
- Research & development
- OSHA
- Mechanical knowledge
- Computer networking
- Project engineering
- Procurement
- Project management
- Electrical experience
- Construction
- Industrial engineering
- Military
- Facilities maintenance
- Software troubleshooting
- Electrical engineering
- Data center experience

Military Service

Branch: United States Navy
Service Country: United States
Rank: Lieutenant
November 1987 to November 1997

Civil Engineer Corps Officer