

# Robert Jordan

## Supervising Electrical Engineer

Bordentown, NJ - Email me on Indeed: [indeed.com/r/Robert-Jordan/1c9835d319249ae8](https://www.indeed.com/r/Robert-Jordan/1c9835d319249ae8)

### WORK EXPERIENCE

#### **Supervising Electrical Engineer**

URS - Princeton, NJ - 1998 to July 2014

#### **Chief Electrical Engineer**

Raytheon Engineers - Tampa, FL - 1994 to 1998

#### **Senior Electrical Engineer**

Raytheon Engineers - Tampa, FL - 1988 to 1994

#### **Chief Electrical Engineer**

EMTEC Corporation - Tampa, FL - 1986 to 1988

#### **Electrical Engineer/Designer**

Badger USA - Tampa, FL - 1974 to 1986

#### **Electrical Engineer**

The Austin Company - Bordentown, NJ - 1973 to 1974

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Over 40 years experience in Electrical Consulting Engineering. Responsibilities include acting as Lead Electrical Engineer on assigned projects and providing direct supervision and administration of electrical engineers and designers for that project. Job responsibilities include preparation of single line diagrams and load studies; preparation of hazardous area classification drawings, detailed engineering of protective devices, short-circuit analysis, and voltage drop calculations; preparation of specifications for substations, switchgear and motor control centers; supervision of designers in layout of power distribution systems, lighting, grounding, communication, fire alarm, and control schemes; and coordinating electrical design efforts within assigned projects.

Recent experience includes design of an auxiliary power system to support a new AQCS on a 458 MW power plant in New Hampshire.

Experience also includes design and selection of equipment for a 464 MW combined cycle power plant for the Puerto Rico Electric Power Authority. International experience includes design and selection of electrical equipment for two fertilizer plants in China, including initial contract negotiations, interfacing with Chinese engineers and Design Institutes, selection of Chinese electrical equipment vendors, and final inspection of electrical equipment in China.

#### **Representative Experience**

We Energies, Pleasant Prairie Power Station, Boiler Cleaning Project, lead Electrical Engineer Electrical design for installation of pressure washers in existing boilers.

Public Service Electric & Gas of New Jersey, Carlstadt, Totowa, Great Notch, Dumont, 69kV upgrade projects. Electrical Engineer. Conceptual design for substations upgrade to 69kV.

We Energies, Valley Power Station gas conversion project, lead Electrical Engineer Electrical design for conversion of existing boiler coal burners to natural gas burners.

Princeton Plasma Physics Laboratory, ITER Project, Electrical Engineer. Write specifications for balance of plant electrical equipment purchase for next generation fusion reactor.

United States Department of Energy, Knolls Atomic Power Laboratory, Separation Process Research Unit (SPRU) Disposition Project, Sludge Solidification System, Lead Electrical Owner's Engineer. Review turn-key contractor's drawings for SPRU Sludge project.

GenOn REMA, New Jersey Combustion Turbines Retrofit Project, Lead Electrical Engineer. Conceptual Design for SCR retrofit for four power generation stations in New Jersey. Prepare detailed construction bid package.

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Team Energy Philippines, Pagbilao Power Generating Station Expansion, Lead Electrical Engineer. Unit 3 conceptual design package

Public Service Electric & Gas of New Jersey, Mountain Avenue Project, Lead Electrical Engineer. Conceptual design for substation upgrade, 26kV to 69kV. Prepare detailed design bid package, permit package, and material lists.

Public Service Electric & Gas of New Jersey, North Avenue Project, Lead Electrical Engineer. Final design for transformer replacements and relay upgrades. Prepare detailed construction bid package.

General Atomics, Next Generation Nuclear Plant (NGNP), Lead Electrical Engineer. Conceptual design for 350MW gas cooled reactor cogeneration station. Engineering scope included development of conceptual design and detailed cost estimate support. Also prepared bid packages for equipment supply. Prepared load study.

Public Service of New Hampshire, Merrimack Clean Air Project, Lead Electrical Engineer. Total project electrical engineering responsibilities for retrofit of FGD on 458 MW coal plant. Engineering scope included evaluation of various technologies, development of detailed design and detailed cost estimate. Also prepared bid packages and technical evaluations for FGD equipment supply and chimney design and build contracts. Prepared load study and evaluated existing electrical system to support new AQCS and designed new auxiliary power system.

Wisconsin Public Service Corporation, Weston 3 AQCS, Lead Electrical Engineer. Total project electrical engineering responsibilities for retrofit of FGD on 330 MW PRB coal plant. Engineering scope included evaluation of various technologies, development of conceptual design and detailed cost estimate. Also prepared bid packages and technical evaluations for FGD equipment supply and chimney design and build contracts. Prepared load study and evaluated existing electrical system to support new AQCS.

Puerto Rico Electric Power Authority, San Juan Station, 464 MW Combined Cycle Power Plant, Lead Electrical Engineer. Design of Balance of Plant Electrical Systems. Specify transformers, isophase bus, bus duct, switchgear, motor control centers, battery and UPS systems. Provide for the electrical connection of the generation equipment provided by Westinghouse and interconnection to the high voltage system. Performed all calculations related to the new electrical distribution systems required for this project at the existing San Juan Station.

U.S. Army Corps of Engineers, Iraq High Voltage Substation Equipment Replacements, Electrical Engineer. Specify equipment and assist in procurement for equipment for Agrabuf, Baghdad East, and Baghdad West substations in Iraq.

Allegheny Power, Hatfield's Ferry Station, Fire Damage Assessment, Electrical Engineer. Investigate causes, write report and provide replacement material take-off relating to hydrogen fire damage at Hatfield's Ferry Unit No. 2.

Detroit Edison, St. Clair Station, Boiler Water Circulating Pump Motor Failure Analysis, Electrical Engineer. Investigate causes and write Analysis Report relating to glandless boiler water circulating pump motor failures. Specify and procure replacement 480V switchgear and dry type transformers for pump motor feeder service, and supervise installation at St. Clair Station.

Reliant Energy Aurora Station, Root Cause Failure Analysis Report for Circuit Breaker Enclosure Bus Faults, Electrical Engineer. Investigate causes and write Root Cause Analysis Report relating to bus faults in 15 KV generator circuit breaker enclosures.

Consolidated Edison of New York East River Repowering, 330 MW Truncated Combined Cycle Power Plant, Lead Electrical Engineer. Design of Balance of Plant systems. Specify transformers, bus duct, motor control centers, battery and UPS systems. Provide for the electrical connection of the generation equipment provided by GE and interconnection to high voltage system. Perform all calculations related to the new electrical distribution systems required for this project in an existing Consolidated Edison Station.

Conectiv Mickleton Substation Modification, Lead Electrical Engineer. Modify existing 230 kV substation to breaker and one-half design for addition of 230 kV circuit breakers, modify existing open bus structures.

City of Tallahassee, 232 MW Combined Cycle Power Plant, Lead Electrical Engineer. Design of Balance of Plant Electrical Systems for new combined cycle power plant. Project scope included zero discharge wastewater treatment plant.

Allied Signal, Nylon 6 SSP Expansion, Lead Electrical Engineer. Design lighting, power and control for 60 motors.

PCS Phosphate, Fertilizer 2400V Upgrade, Lead Electrical Engineer. Design replacement of 2400V substation including 2400V switchgear and MCCS.

CNTIC, China, Aluminum Fluoride Plant, Lead Electrical Engineer. Design lighting, power and motor control for 50 motors, procurement of electrical equipment, interface with Chinese Design Institute.

Refineria ISLA, Furfural Expansion, Lead Electrical Engineer. Design new distribution substation, modify existing 6 kV substation power and control for 20 motors for refinery in Curacao.

CNTIC, China, Phosphoric Acid Plant, Lead Electrical Engineer. Design for lighting, power, and motor control for 100 motors, procurement of electrical equipment in China, interface with Chinese Design Institute.

CITGO, Hazardous Area Compliance, Lead Electrical Engineer. Process Safety Management Reclassification of Citgo Refinery in Corpus Christi.

Texasgulf, Inc., Water Management Project, Lead Electrical Engineer. Design for two new distribution substations, power and control for 50 motors, for wastewater treatment upgrade

CITGO, Replace Wastewater Impoundments, Lead Electrical Engineer. Design for new wastewater treatment plant, lighting power and control for 100 motors, 15 kV substations, distribution substations, one mile of 15 kV PILC duct bank, 19,000 HP connected.

Texasgulf, Inc., 25 kV Switchhouse Project, Lead Electrical Engineer. Design for 25 kV vacuum breaker lineup, including reconnection of ten distribution substations, one mile of 25 kV pole line.

Texasgulf, Inc., Calcliner Electrical Upgrade, Lead Electrical Engineer. Design for replacement of 2400V and 480V substations, motor control.

General Electric, Solid Waste Incinerators, Lead Electrical Engineer. Design lighting, power and control for new rotary incinerator.

Chevron, Phosphate Fertilizer Complex, Lead Electrical Engineer. Design lighting, power and control for grassroots fertilizer complex, including 34 kV substation, 10 distribution substations.

Arco Chemical, Plastic Facility Expansion, Electrical Field Engineer. Construction management of electrical contractor.

SF Phosphates, Evaporator and Filter Expansion, Lead Electrical Engineer. Design of two distribution substations, motor power and control for 60 motors.

TECO Polk Power, Gravity Settler Addition, Lead Electrical Engineer. Design of motor power and control for 20 motors

Merck & Company, MK-991 Pharmaceutical Project, Lead Electrical Engineer. Design of lighting, motor power and control for 60 motors.

Tosco Refinery, Brine Unit Addition, Lead Electrical Engineer. Design of outdoor starter racks, lighting, motor power and control for 20 motors.

Breed Automotive, Powder Mfg. Building #10 Modifications, Lead Electrical Engineer. Design building lighting, power and motor control for 40 motors.

#### EDUCATION

##### **B.S. in Electrical Engineering**

University of Illinois at Chicago Circle - Chicago, IL