

Thomas Electrical Engineer, PE
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EDUCATION MS – Electrical Engineering, 1984: Rutgers University, New Brunswick, NJ
BS – Electrical Engineering, 1968: Rutgers University, New Brunswick, NJ

LICENSE Professional Engineer's License, State of New Jersey, 1989

SUMMARY Over 20 years experience in electrical engineering, including:

- Specification writing, **equipment selection** and vendor interface.
- Developed one line diagrams, plan power distribution, substation, MCC Room layout. Developed motor elementary diagrams, PLC/DCS wiring and interconnection diagrams. Design **lighting, communications, power distribution** systems for office space, clean rooms, cGMP and other locations of pharmaceutical plants and commercial facilities.
- Design and specify fire protection and security systems for offices and schools.
- Preparation of man-hour estimates, change order requests, coordination with client and other disciplines. Provide engineering support during construction and assist in start up.
- Organize and supervise designers and CAD operators. Familiar with use of AutoCAD, Microstation, Microsoft Word, Excel, Access.
- Fully conversant with NEC, NFPA, IEEE, and ANSI standards.

EXPERIENCE **ABC, Inc.** **Somewhere, NJ**

11/02 – Present: Senior Electrical Engineer

- Responsible for all the electrical engineering work. Present projects include design and engineering work for multi-storied apartment complex, industrial plants, schools etc.
- Completed projects for power distribution, fire alarm system, security, CCTV, network IT layout for schools and high rise buildings.

DEF Company, Inc. **Somewhere, NJ**

3/98 – 11/02: Senior Electrical Engineer

- Design of lighting system of a manufacturing building for a biotech plant. Tasks included lighting calculations circuiting, check interference with HVAC and other disciplines.
- Discipline Lead Engineer for pharmaceutical plant expansion projects (estimated cost, \$60 million). Responsible for all design, calculations and specifications issued for construction.
- Responsibilities included client meetings, man-hour estimates, organizing design group, preparing requisitions for electrical equipment, design supervision and engineering support for the construction group. Used PDMS 3D modeling, 2D Microstation and AutoCAD v14.

IMO Engineers **Somewhere, NJ**

11/96 – 3/98: Electrical Design Engineer (contract position)

- Preparation of front end packages for their expansion projects.
- Work involved preparation of one line diagrams, area classification and scope of work.

GL Consulting Engineers, Inc. **Somewhere, NJ**

2/90 – 11/96: Senior Electrical Engineer, Electrical and Instrumentation Group

- Responsible for all electrical engineering and design for oil refinery.
- Provided engineering, design, construction and start up support for a new 13.8 kV substation.
- Retrofit existing wastewater treatment system, Gas detection system, remote pump control, 250 kW stand by generator installation for storm water diversion system.
- Used DAPPER, CAPTOR, EDSA Neher Mcgrath Ampacity Software for technical evaluation.

BAL International **Somewhere, NJ**

6/86 – 2/90: Electrical Design Engineer

- Preparation of design criteria, one line diagrams, specification for electrical equipment, scope of work document for installation subcontracts for chemical plant expansion.
- Selection of electrical equipment consisting of unit substation, medium voltage cables, motor control centers, 30 KVA UPS System.
- Supervised designers and CAD operator to meet project schedules and client requirements.

NRG, Inc.

Somewhere, NJ

2/79 – 6/86: Electrical Engineer

- Worked in the electrical group involved in engineering and design of a coal gasification plant.
- Developed substation layouts, grounding, underground duct bank layouts, perform cable pull tension calculations, overhead tray layouts, lighting and area classification studies. Prepared Motor control diagrams, control elementary diagrams, interconnection diagrams.
- Designed fire protection system for the entire plant.

MEMBERSHIP Institute of Electrical and Electronics Engineers (IEEE), 1990 – present