

James Lupa

Senior Electrical Engineer

West Berlin, NJ - Email me on Indeed: [indeed.com/r/James-Lupa/97172e376021dd7b](https://www.indeed.com/r/James-Lupa/97172e376021dd7b)

- Professional Electrical Engineer with extensive MEP experience.
- Over 25 years of diversified consulting engineer experience gained on various municipal, institutional, government, commercial, educational and health care projects.
- Obtained a comprehensive knowledge and application of NFPA, NEC and IESNA industry codes and standards while working at MEP design consultant companies.
- Working knowledge of AutoCAD and MS Office applications.
- Thorough knowledge of the design, construction, and modification of building systems and power distribution for commercial, institutional, and industrial facilities.
- Performed a diverse selection of professional responsibilities, including various aspects of design, installation, training and support, as well as project engineering.
- Skilled in cost management and documentation, including one-line diagrams, short circuit studies, basis of design criteria, cost estimates, load flow studies, design calculations and specifications for electrical equipment and systems.

WORK EXPERIENCE

Senior Electrical Engineer

KLING-STUBBINS (MEP) - Philadelphia, PA - May 2013 to August 2013

Designed the power distribution for two 30MW new and an existing data center. This involved specifying and determining the routing of conductors in cable trays, conduits and duct banks.

- Utilized ETAP computer programs to obtain voltage drops and short circuit currents.
- Performed conductor heat loss and cable pull calculations for underground duct bank routing.
- Participated in a study to provide a new method for emergency power distribution.

Senior Electrical Engineer

KITCHEN & ASSOCIATES - Collingswood, NJ - October 2012 to January 2013

Engineered, designed and specified equipment for a low rise, 250 unit university student housing project.

- Sized the onsite housing substation for distribution of power to the electrical rooms on each floor and to each apartment.
- Specified normal and emergency lighting and controls for the apartments and common areas in compliance with energy codes. LED lighting was specified for some common areas and all garage lighting.
- Designed and specified the housing digital fire alarm system. Located the detection and notification devices in compliance with NFPA and ADA requirements
- Engineered the fit out of two floors of a charter school in NY City.
- Specified the normal and emergency school lighting to match the existing luminaires.
- Coordinated new connections in the Main Electrical Room.
- Performed walk downs and punch lists of the school two existing floors being completed.

Senior Electrical Engineer

PSEG NUCLEAR LLC - Hancocks Bridge, NJ - January 2011 to April 2012

Prepared electrical design modifications for the Salem Generating Station.

- Using a conceptional design and discovery walkdowns, finalized detail design and procured parts as required.

- Undertook a comprehensive search of drawings, inventory, specifications, operation manuals, testing procedures, maintenance manuals, reports and licensing documents.
- Provided rapid responses to Problem Reports
- Searched Industry resources for similar modifications to save time and money..

Principal Electrical Engineer

TETRA TECH - Langhorne, PA - August 2008 to January 2011

Generated proposals, design criteria, specifications, one-line drawings and SKM calculations for utility sized wind and solar farms.

Senior Electrical Engineer

MARVIN WAXMAN CONSULTING ENGINEERS (MEP) - Philadelphia, PA - August 2006 to June 2008

Engineered, designed and specified new and existing service entrance equipment and power distribution systems for normal and emergency power, lighting, lightning calculations, fire alarm systems.

- Prepared electrical specifications for, railroads, renovated universities, commercial buildings, high-rise residential condos, and museums.
- Provided lighting and power design for a refinery marine terminal.
- Performed building electrical systems condition assessments. Completed LEED training.
- Supervised and mentored electrical engineers and designers.

Senior Project Engineer

ALAIMO GROUP (MEP) - Mount Holly, NJ - July 2004 to August 2006

Engineered, designed and specified power distribution systems for new and existing municipal water and wastewater pump houses. Systems included backup emergency power, VFD motor drives, building security and fire alarm systems.

- Specified and designed a unique high-mast lighting security system for the South Jersey Transportation Authority (SJTA) which included a fiber optic high resolution CCTV system. This was the first time metal halide lighting was used by SJTA.
- Supervised and mentored electrical designers.

Senior Electrical Engineer

CONCORD ATLANTIC ENGINEERS (MEP) - West Atlantic City, NJ - November 1999 to February 2004

Engineered normal and emergency 480V power, lighting and fire alarm systems for new and renovated hotel-casino expansions, new and renovated high-rise hotels, a 250,000 square foot office building, high-rise condos, casinos, schools, hospitals and assisted living projects.

- Engineered, designed and specified projects ranging from utility interface with 23kV switchgear to 120/208V commercial distribution systems including all electrical specifications.
- Supervised and coached electrical engineers and designers.

Senior Electrical Engineer

CONCORD ENGINEERING GROUP (MEP) - Voorhees, NJ - June 1998 to October 1999

Engineered, designed and specified power distribution ranging from 5kV switchgear and 480V substations to 120/208V panelboards, including all electrical specifications.

- Engineered service entrance equipment, power distribution, lighting and fire alarm systems for schools, government buildings and assisted living projects. Served as electrical technical expert.
- Supervised and coached electrical engineers and designers.

Project Engineer

GIOVANETTI-SCHULMAN ASSOCIATES - Drexel Hill, PA - May 1995 to May 1998

Engineered, designed and specified the power distribution system, including 25kV and 5kV switchgear, 480V substations, normal and emergency power, for major casino expansions including a 400 room high-rise hotel.

- Other major casino expansions included a 600-room high-rise hotel, a 200-room low-rise hotel, office and apartment building renovation.
- Prepared design development documents, manpower and cost estimates, load estimates, short circuit studies, electrical systems design (normal and emergency power, fire and security), solved problems during construction through final testing.
- Supervised and coached electrical designers.

STONE & WEBSTER ENGINEERING CORPORATION, Boston, MA / Cherry Hill, NJ

Electrical Engineer - Power Plants

- Career has included design and engineering on 16 electrical power generating plants.
- The majority of plants were nuclear fueled. Also hydroelectric and fossil fueled plants.
- Developed \$20K solutions to \$300K problems.
- Multiple assignments for 5 years (combined) on various construction sites resolving electrical equipment, construction and startup problems.

EDUCATION

Bachelor of Science in Electrical Engineering

Northeastern University - Boston, MA