

# POWER ENGINEERS, LLC

*Electrical Engineering, Power, Lighting, Technical Studies and Utility Consulting*

37 Fox Den Road  
Kingston, MA 02364-2150  
(508) 612-0382 Phone  
(781) 936-8641 Fax  
Dave@PowerEngineersLLC.com

## **FIRM QUALIFICATIONS** **Lighting Design**

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Vietnam Veterans Memorial, Worcester, MA





## GENERAL SUMMARY OF SERVICES

### LIGHTING PROJECTS

Power Engineers, LLC is an Engineering and Consulting firm specializing in the design, analysis, operations and engineering of electrical distribution systems. The firm is staffed with highly motivated Registered Professional Engineers.

These professionals have extensive experience in high and low voltage electrical design projects for clients including municipalities, colleges, universities, industrial/commercial facilities, and utilities.



With respect to lighting, the staff of Power Engineers, LLC has been involved in numerous design and construction projects for new outdoor municipal roadway, ornamental, and sports lighting. Working with utility and municipal clients has exposed us to a variety of lighting issues and design concepts. Typical lighting designs include developing construction plans, lighting details, photo-metrics and installation specifications, along with providing recommendations for lighting fixtures, poles, and controllers. Bid recommendations and construction supervision can be provided as part of detailed construction phase services to compliment electrical design services.

Our engineers have had extensive experience in design and field construction of both overhead and underground distribution electrical facilities supplying facilities, lighting, and emergency equipment.



Green Hill Park, Worcester MA

## RECENT PROJECT EXPERIENCE (LIGHTING)

### City of Worcester, Massachusetts, Parks & Recreation

- Green Hill Park – Design of outdoor pavilion lighting
- Worcester Common – Design of new Common outdoor lighting
- Kendrick Field – Design of sports lighting for new baseball field
- Worcester City Hall—Design of new Main Street and front entrance lighting
- Vernon Hill Park—Design of Park Lighting & City-wide park standards
- Rockwood Field—Design of Baseball and Softball Field sports lighting

### Vietnam Veterans Memorial, Worcester, Massachusetts

- Design of new outdoor lighting for Memorial project, including walkway and accent lighting.

### Town of Stoneham, Massachusetts

- Design of new outdoor lighting for Town Common construction project.

### City of Fitchburg, Massachusetts, Office of Planning Coordinator

- Coolidge Field - Design of new sports lighting for new softball field
- Nikitas Field – Design of new sports lighting for multi-use football & practice fields.

### City of Boston, Massachusetts, Parks Department

- Walker Playground, Mattapan - Design of field lighting associated with playground renovations.
- Commonwealth Avenue outdoor mall - Design of underground electric supply facilities to lighting and irrigation along the roadway.
- Ceylon Park—Design of new underground electrical service and outdoor sports lighting for new soccer/lacrosse field.

### Town of Hyannis, Massachusetts

- Main Street Revitalization Project - Design of new ornamental street lighting and tree up-lighting as part of 1-mile roadway project.



Eastern Point Road, Groton, CT

## **RECENT PROJECT EXPERIENCE (LIGHTING)**

### Town of Somerset, Massachusetts

- Historic Main Street Construction Project - Design of new ornamental street lighting.

### Town of Concord, Massachusetts

- Main Street (Route 62) Reconstruction Project - Design of electrical supply conduit system to street lighting. This project included the undergrounding of two miles of overhead electric, telephone and CATV facilities.

### Town of Wellesley, Massachusetts

- Engineering design and construction supervision for the installation of ornamental street lighting along Route 16

### Pfizer Global Manufacturing, Groton CT

- Design of a new street lighting system, including selection of the light poles and fixtures for a 1-mile stretch of Eastern Point Road, outside of Pfizer's world headquarters.

### Town of Northbridge, Massachusetts

- Design of new outdoor street lighting as part of Church Street reconstruction project.

### Town of Groton, Massachusetts

- Route 119 Road Widening Project—Design of new streetlighting for intersection of Routes 119 and 225. This project involved the selection of a new town-wide ornamental lighting standard and the undergrounding of overhead electric and communications lines.

### Town of Walpole, Massachusetts

- Design of new High School Football Field Sports Lighting and electrical infrastructure.



Fuller Field, Falmouth MA

## RECENT PROJECT EXPERIENCE (LIGHTING)

### Town of Shrewsbury, Massachusetts

- Dean Park Softball Field—Design of new electrical service and sports lighting.

### Town of Falmouth, Massachusetts

- Design of new sports lighting and electrical infrastructure for semi-pro Fuller Field baseball field.
- Design of Sandwich Road field complex (baseball and soccer fields), new electrical service and sports lighting.
- Design of downtown streetscape lighting along Main Street.

### Babson College, Wellesley, Massachusetts

- Design of new outdoor decorative lighting for Upper Quad renovation project.

### Town of Essex CT

- Design of a new street lighting system, for historic downtown streetscape project.

### Town of Framingham MA

- Design of new underground park electrical system and pathway and parking lot.

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## **David J. Colombo, P.E.**

### **Education:**

Rensselaer Polytechnic Institute: M.Eng. in Electric Power Engineering  
Worcester Polytechnic Institute: B.S. in Electrical Engineering

### **Professional Affiliations:**

Licensed Professional Engineer: Massachusetts (#40426), RI (#8527)  
(Electrical) Vermont (#7508), Connecticut (#25648)  
New Hampshire (#11697)  
Maine (#9684)  
Maryland (#30068),  
NCEES #24303 (National PE Registration)

IEEE Power Engineering Society  
Eta Kappa Nu Engineering Honor Society  
Northeast Public Power Association

### **Experience:**

Mr. Colombo is the owner of Power Engineers LLC, an electrical engineering, design and consulting firm. As a principal engineer, Mr. Colombo provides power system design, lighting design, technical studies and consulting to clients such as utilities, municipalities, colleges, industrial / commercial facilities, other consultants and the insurance industry. Mr. Colombo has experience in forensic assessment of electrical equipment at both low and high voltages and safety training in the proper use of personal protective equipment to avoid electrical injuries. Several of Mr. Colombo's recent projects have involved cogeneration, renewable energy and wind power feasibility.

Prior to forming Power Engineers LLC, Mr. Colombo was a partner in a New England based electrical consulting firm. He also served as Engineering & Operations Superintendent for an electric utility in Massachusetts.

Mr. Colombo has been involved in numerous design and construction projects for new outdoor municipal roadway, ornamental, and sports lighting. Typical lighting designs include developing construction plans, lighting details, photo-metrics and installation specifications, along with providing recommendations for lighting fixtures, poles, and controllers. Achievements include the lighting design for the recently completed Vietnam Veterans Memorial in Worcester.