

PROFILE

Mr. Pagano is an electrical engineer with over 30 years of experience in the design, construction, operation and maintenance of electrical power systems for industrial, municipal and commercial applications. His expertise spans the areas of short circuit, arc flash and coordination studies; system failure mode analysis; utilities operation; renewable energy; and electrical safety program development. His responsibilities have included design of medium-voltage substations and distribution networks, lightning protection systems, highway lighting, SCADA/control systems and fiber optic networks, as well as construction assistance on projects involving instrumentation, controls and power distribution within municipal water and wastewater plants and large campus industrial facilities. Key strengths include the following:

- ▶ Renewable Energy
 - ▶ Power Generation
 - ▶ Transformers
 - ▶ Electrical Safety
 - ▶ SCADA/Control Systems
 - ▶ Rotating Machines
- ▶ *Industries:* electric utilities, power generation, commercial and industrial buildings, water and wastewater.
- ▶ *Technical Skills:* Microsoft Office, Project, AutoCAD, SKM Power Tools for Windows, Distributed Control Systems (DCS), Supervisory Control and Data Acquisition (SCADA), Human Machine Interfaces (HMIs), Programmable Logic Controllers (PLC's), LAN, fiber optics, telephone systems, and closed circuit television (CCTV).

EDUCATION

Bachelor of Science, Electrical Engineering

Manhattan College, School of Engineering – Riverdale, New York

LICENSES

Professional Engineer (PE):

- ▶ California
- ▶ New Jersey
- ▶ New York
- ▶ Pennsylvania
- ▶ Texas

CERTIFICATIONS

Certified Energy Planner

Certified Energy Manager

Certified Construction Document Technologist

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WEBSITE

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PROFESSIONAL AFFILIATIONS

- ▶ Association of Energy Engineers (AEE)
- ▶ Institute of Electrical and Electronic Engineers, Power Engineering Society (IEEE)
- ▶ National Fire Protection Association (NFPA)
- ▶ International Society of Automation, New York Chapter (ISA), Past New York Section President

PROFESSIONAL BACKGROUND

August 2016 – Present: Envista Forensics, formerly PT&C|LWG – Holbrook, New York
Principal Consultant

July 2012 – August 2016 – Thornton Thomasetti – New York, New York
Vice President / Chief Electrical Engineer

October 2005 – July 2012 – Pfizer – Pearl River, New York
Senior Project Engineer - Utilities

October 2001 – October 2005 – IMTT – Bayonne, New Jersey
Power Systems Manager

October 1998 – October 2001 – Malcom Pirnie – White Plains, New York
Project Engineer

December 1987 – April 1998 – Bernard H. Schwartz – Pearl River, New York
Senior Project Engineer

PROFESSIONAL DEVELOPMENT / TRAINING

- ▶ Solar Photovoltaic Project Design and Development
- ▶ Safe Access and Rescue (Wind Turbine Authorized Climber)
- ▶ Railroad Signals Systems
- ▶ Buying and Selling Energy
- ▶ Power Logics
- ▶ Transformer Specialists
- ▶ NFPA 70E/Arc Flash Electric Safety
- ▶ Energy Managers Training
- ▶ Transmission and Distribution System Fault Analysis
- ▶ Managing Projects
- ▶ Electrical Safety in the Workplace

TESTIMONY / LITIGATION SUPPORT

- ▶ Confidential Rail System Evaluation, New York and New Jersey. Litigation support project that originated from a property loss Damage assessment. Supported market of interested insurers against an overstated claim. Deposition provided and case was settled before trial.
- ▶ Confidential Power Plant, Hawaii. Litigation supporting project for the design engineer against the contractor's claim of cost overruns and inadequate construction document in the construction of a waste to energy facility. Deposition provided with case settling before trial.
- ▶ Confidential Residence, California. Litigation support for the insurer against the homeowner's claim of damage from a broken pipe. Provided sworn testimony via telephone to the insurance appraisal panel.
- ▶ Confidential Hotel, New York. Litigation project supporting electrical contractor terminated prior to the completion of work.
- ▶ Confidential Pharmaceutical Facility, Massachusetts. Litigation support for contractor against the owner's claim of inadequate design and construction management. Case is currently in mediation.
- ▶ Confidential Residence, California. Litigation support for the insurer against the homeowner's claim of damage from a broken pipe. Case is currently in mediation.
- ▶ Confidential Manufacturing Facility, Texas. Litigation support for a financial institution and recovery firm against a claim of stolen electrical infrastructure. Case is currently in discovery.

REPRESENTATIVE PROJECT EXPERIENCE

Damage Assessment

New Jersey

- ▶ Scope of damage assessment services for an industrial warehouse fire that included a large roof-mounted solar array with ground-based inverters.

Rail System Evaluation

New York and New Jersey

- ▶ Damage assessment of substations, DC power, power distribution, emergency lighting, signals and security systems following CAT-90 Sandy.

Cargo and Cruise Ship Terminals

New York and New Jersey

- ▶ Damage assessment of 18 electrical substations and associated electrical distribution at two marine terminals related to CAT-90 Sandy.

Liquid Storage Facility and Terminal

New Jersey

- ▶ Scope of damage assessment services including medium voltage substations, pumping systems, vapor recovery systems and piers, related to CAT-90 Sandy.

Solar Array

Lone Valley, California

- ▶ Investigation of a fire that destroyed a double-ended inverter station at a 20MW solar array. Provided report on causation after fire investigator determine origin.

Solar Array

Linden, New Jersey

- ▶ Investigation in to the reported degradation of solar modules from the Cat 90 (Sandy) Event.

Wind Farm

Dayton, Washington

- ▶ Cause and origin investigation of a transformer failure (tank rupture) at a newly constructed 266MW wind farm.

Wind Farm

Mount Storm, West Virginia

- ▶ Cause and origin investigation of wind turbine fire at a 246 MW wind farm.

Pfizer, Inc. – Multiple Projects

New York, New York

- ▶ Furnished analysis of electrical failures to the plant wide medium voltage distinction system. Component failures included cabling, interrupter switches, and switchgear.

Trickling Filter Pump Station Harmonic Disturbance Report

Hoboken, New Jersey

- ▶ Investigation into harmonic disturbances on an electrical system that led to the malfunctioning of a large sewage pumping station and discharge of partially treated sewage.

Solar Array

Portland, Oregon

- ▶ Investigation into failure of a thin-film solar array on commercial rooftop. Modules installed on flat roof found delaminating allowing water infiltration.