

# Gina Bumshteyn

PE, CFEI

Senior Consultant



Ms. Gina Bumshteyn is a licensed professional engineer in NY, NJ, PA, CT, MA, Certified Fire and Explosion Investigator and Senior Consultant with Engineering Systems, Inc (ESi) in the Lincoln Park, New Jersey office.

Ms. Bumshteyn has extensive experience across a broad array of project types including evaluation of electrical failures, field investigations, analysis of electrical fires, code compliance, construction accidents, accidents involving various types of electrical systems and equipment, and battery failure analyses.

Ms. Bumshteyn conducts comprehensive scene and laboratory examinations to determine the mode, sequence, and mechanisms of electrical failure. Her work involves detailed inspection, testing, and analysis of electrical systems, appliances, consumer products, and electrical workmanship to evaluate operational performance, design adequacy, adherence to safety standards, and code compliance. She routinely applies the scientific method to document, test, and analyze findings in support of clear, technically grounded opinions provided to clients for use in technical, risk assessment, and litigation support to insurance companies, law firms, property managers, engineering firms and industrial companies.

Prior to focusing on forensic investigation, Ms. Bumshteyn gained broad industry experience in utility substation design, commercial electrical design, construction management, project management, and code compliance reviews. During this time, she held multiple positions including Engineer-In-Charge for all stages of various projects. Her projects included electrical distribution, utility substations, lighting, electronic security systems (including all-electronic tolling systems), fire alarm systems, electronic access systems, security camera systems, and management of all aspects of heavy construction including site safety, scheduling and general oversight.

---

## Education

Polytechnic University, Brooklyn, NY,

Bachelor of Engineering (Electrical and Computer Engineering),  
2003

## Contact Information

gbumshteyn@engsys.com

(862) 458-0843

## ESi Lincoln Park

6 Frassetto Way, Suite E

Lincoln Park, NJ 07035

## Areas of Specialization

- Root Cause Investigations
- Utility (High voltage) equipment and systems
- Solar System Failure Analysis
- Electrical Failure Analysis
- Electrical Fire Investigation
- Open neutral events
- Grounding and bonding evaluation
- Construction accidents
- Electrical injury/electrocution
- Lightning damage
- Battery Operation and Failure Investigation
- Evaluation of required lighting levels
- Code compliance
- Storm damage evaluation

---

## Licenses & Certifications

- State of New York PE License 094575
- State of New Jersey PE License 24GE05263300
- State of Pennsylvania PE License PEN.0035083
- State of Connecticut PE License PE092043
- State of Massachusetts PE License 5 9 3 0 7
- NAFI Certified Fire and Explosion Investigator (CFEI)
- Erosion & Sediment Control Inspection Certified – New York State (NYS) Department of Environmental Control (DEC)
- Occupational Health and Safety Administration (OSHA) 30-hour training
- Design – Build Certified by MTA Bridges and Tunnels
- Certified Tribometerist -CXLT Certification

---

## Languages

- Russian

---

## Positions Held

### Engineering Systems Inc., Lincoln Park, New Jersey

- Senior Consultant, 2026 – Present

### LGI Forensic Engineering, P.C., New York

- Senior Engineer 2003-2026
- Engineer, 2020-2023

### National Forensic Consultants, New York

- Forensic Engineer, 2014-2020

### Metropolitan Transportation Authority Bridges and Tunnels (TBTA), New York

- Project Engineer/Engineer-in-Charge, 2013-2020
- Technical Coordinator/Code Compliance, 2012-2013

### AECOM, New York

- Electrical Engineer, 2006-2012

### Keyspan Energy, New York

- Substation Engineer, 2004-2006

---

## Professional Affiliations/Honors

### International Association of Arson Investigators (IAAI)

- Member, 2020-present

### Institute of Electrical and Electronics Engineers (IEEE)

- Member, 2020-present

### IEEE Society of Women in Engineering (SWE)

- Member, 2020-present

### National Academy of Forensic Engineers (NAFE)

- Member, 2024 -present

### National Society of Professional Engineers (NSPE)

- Member, 2020 – present

### National Fire Protection Association® (NFPA®)

- Member, 2020 – present

### National Association of Fire Investigators (NAFI)

- Member, Certified Fire & Explosion Investigator (CFEI)
- Member, 2020 -present

---

## Presentations

“Investigating Solar Fires” NAFE Santa Fe, NM, 2025

“Investigating Solar Fires” LGI NY-NJ open house, White Plains, NY, 2024

“Investigating Solar Fires” UCMA, Callicoon, NY, 2024

"Grounding 101-Hit the Ground...Not Running" NYAIAI (New York Association of Independent Insurance Adjusters), Mamaroneck, NY, 2024

“Investigating Solar Fires” PSEG, Hicksville, NY, 2024

“Grounding 101” Con Edison, New York, NY, 2023

“Grounding 101” UCMA (Utility Claims Managers Association), Lake George, NY, 2022