

Augustin Muresan | Forensic Electrical Engineer, PE

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Professional Summary:

Augustin started his career in Electrical Engineering designing and building PLC control panels for fragrance and flavor process control and batching. He then transitioned his career into the construction industry by working on a variety of utility and public construction projects including pump stations, draw bridges, generating stations, distribution substations and an airport terminal project. In addition to his engineering experience, Augustin is a career firefighter and has fire investigation experience. Specifically, Augustin has experience in the following areas:

- Power Generation
- Power Delivery
- Pump Stations
- Draw Bridges
- PLC's
- Fire Investigations
- Protective Relaying
- ETAP
- Insulation Coordination

Licenses and Certifications:

Professional Engineer, New Jersey, License #24GE06004100

National Engineering Registration, NCEES, 15-013-25

NJ issued Fire Investigator Certification, Division of Fire Safety, NJ, Training through NJ IAAI

Project Experience:

ONCOR Electric Utility, TX Distribution Automation

Provide drawings and documents for the implementation of Distribution Automation at multiple Distribution Substations. Task included revising one-line, three-line, schematic and wiring diagrams for the installation of distribution circuit breakers, instrumentation current and voltage transformers for implementation of voltage throwover schemes, protective relaying racks and self-enclosed ABB distribution circuit breakers. In addition, provided physical layout drawings for the installation of new Circuit Breakers, Radio Equipment, Concrete Poles, and Conduit Layouts.

Covanta Energy Turbine Generator Sequential Tripping

Electrical Engineer responsible for the delivery of electrical drawings to support the implementation of sequential tripping scheme for multiple turbine generator plants. Provided revised one-line, three-line, schematic and connection drawings. Reviewed vendor documents for installation of new relaying panels. Reviewed and revised protective relaying logic diagrams.

HDR Engineering, NJ**New Jersey Transit, Upper Hackensack River Drawbridge, Hackensack New Jersey Field Survey Power, and Control Systems**

Staff Engineer responsible for the survey of the Upper Hackensack River Bridge including motors, diesel power units, motor starters, disconnects, and PLC's Limits switches. Specifically, responsible for assisting NJT contractor in creating as-built drawings of original bridge trapeze system and an additional incomplete replacement system. Prepared and submitted conduit and cable schedules and point to point excel spreadsheets for as-built drawings. Provided recommendations on the replacement and staging of existing and new control equipment. Assist maintenance personal in troubleshooting inoperable bridge systems.

Professional Experience:

EFI Global, Forensic Electrical Engineer, 2024 - Present
Power Engineers, Engineer IV, Generation, 2017 – 2024
Milestones Engineering, Staff Engineer, 2015 – 2016
Lecron, INC, Project Engineer, 2015

Education:

Bachelor of Science, Electrical Engineering, *Cum Laude*, New Jersey Institute of Technology, Newark, NJ, 2014

Affiliations:

International Association of Arson Investigators (IAAI), NJ Chapter

Honors and Awards:

Group Effort Valor Award, NJ FMBA, 2018
Company Soldier of the Year, NJ Army National Guard, 2009