

Thomas Tracey

Wilmington, Delaware / Sarasota, Florida

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Education

Bachelor of Science: Electrical Engineering | The Pennsylvania State University | State College, PA 2020

Professional summary

Electrical Engineer with five years of experience in utility power systems, including over three years in substation maintenance, testing, and commissioning. Strong understanding of the electrical grid and power system operations. Passed the Fundamentals of Engineering (FE) exam and currently registered as an Engineer in Training (EIT); beginning to pursue Professional Engineer (PE) licensure. Seeking a full-time electrical engineering position with a focus on power systems and substation operations.

- Level I Thermography Certified
- Substation equipment testing, commissioning, and maintenance
- Power system analysis and distribution planning
- Strong knowledge of the electric power system and grid operations
- Software: CYME (distribution analysis)
- Strengths: Analytical problem-solving, adaptability, field-engineering coordination

Employment history

Exelon - Delmarva Power / Atlantic City Electric

Testing and Commissioning/Maintenance Engineer | Newark, DE *Aug 2022 - Present*

- Support preventive maintenance programs by reviewing and interpreting test results for substation equipment, including transformers, circuit breakers, lightning arresters, and CCVTs.
- Initiate capital replacement projects for substation assets exhibiting degraded or abnormal test results to maintain system reliability and asset health in conjunction with the long-term capital strategic plan.
- Generate corrective maintenance work for substation equipment requiring repair.
- Assign final engineering approval for new and recently tested equipment prior to energization.
- Assist substation field crews with troubleshooting and root-cause analysis for equipment trips and unplanned operational outages.
- Promoted to General Engineer (E3) from Engineer (E2) - 2024

Capacity Planning Engineer | Newark, DE *Jun 2020 - Aug 2022*

- Performed distribution feeder load studies using CYME to evaluate system capacity, identify constraints, and recommend upgrades to support future load growth.
- Reviewed residential and commercial solar interconnection applications to determine allowable generation capacity and ensure compliance with utility standards and system limitations.
- Analyzed distribution system reactive power requirements and identified locations for capacitor bank installation to improve power factor and voltage profiles.
- Promoted to Engineer (E2) from Associate Engineer (E1) - 2022

PEPCO Holdings (PHI) Intern | Newark, DE *Summer 2018, Summer 2019*

- Analyzed transformer oil samples to determine equipment health, reliability, and performance. Created a report documenting the equipment failure of the static var compensator (SVC) for department consideration. Project presented to and later approved by the Transmission and Substation Vice President.
- Designed a fiber optics route for an internal company communication upgrade project.