

Scott M Curtis, PE

Site Reliability Engineer • Elmsford, NY 10523 • (973) 222-7773
smcurtis@gmail.com • linkedin.com/in/scott-curtis-pe • https://www.scott-curtis.com

WORK EXPERIENCE

Arcadis, White Plains, NY

Staff Electrical Engineer

05/2017-Present

- Project electrical engineer responsible for leading the electrical design effort for multiple complex projects simultaneously who has received two spot bonuses for remarkable performance.
- Drafted electrical drawings including one-line diagrams, front-views, control diagrams, block diagrams, and details with attention to detail and 15% below projected budgeted hours on average.
- Standardized processes in creating electrical drawings, and specifications, minimizing time spent on repetitive and boilerplate tasks which aided in completing projects under budget.
- Surveyed sites and facilities to identify and address plant and site-specific details including power plants, pump stations, waste/water treatment plants.
- Developed spreadsheet tool to dynamically calculate the size of a duct bank given the conduits intended to be installed within which enabled quick iterative adjustment as the design matured.
- Coordinated with multiple engineering disciplines frequently to effectively deliver a completed and unified design while minimizing conflicts.
- Modeled low voltage electrical distribution systems and performed load flow, short circuit, relay coordination, and arc-flash studies utilizing ETAP and SKM software.
- Reviewed vendor submittals and responded to RFIs to provide design services during construction.

AECOM, Princeton, NJ

Electrical Engineer IV

05/2012-05/2017

- Assembled specifications for substations control houses, low voltage distribution equipment, medium voltage switchgear, and power distribution centers.
- Managed the engineering, procurement, and installation of a statewide microwave system. Equipment includes 105 microwave radio hops, 10 fiber optic nodes, 50 pieces of digital cross connect equipment, and an overall network management system.
- Performed load flow, short circuit, solid-state trip circuit breaker coordination and calculation packages for fossil, hydro, and nuclear power plants.

EDUCATION

Stevens Institute of Technology – Hoboken NJ,

05/2012

Bachelor of Engineering, Electrical Engineering, GPA: 3.58/4.0

CERTIFICATIONS

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|---|-----------------|
| • AWS Certified Solutions Architect – Associate | 02/2020-02/2023 |
| • PCEP Entry Level Python Programmer | 03/2020 |
| • Licensed Professional Engineer – NJ | 08/2018-04/2022 |

SKILLS

Software Tools: AutoCAD, ETAP, SKM, MS Office Suite, Fusion360

Programming and Infrastructure: AWS, Git, Python (Flask, MongoEngine), Bash, JavaScript (React.js), SQL, Docker, Terraform

Core Competencies: Analytical Thinking, Efficiency, Problem Solving, Communication, Technical Writing

ADDITIONAL

Interests: Software Development, 3D Printing, Electronics, DIY Projects, Playing Musical Instruments, Motorcycles, Gaming